

battle programming 2011 3rd edition.txt

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about 25% of this book was written by the yotamarker v1 program which was written on vb.net  
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the following book explains how to use most of the technologies existing in the world at 2011.

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THERE COMES A TIME WHEN THE KING MUST BECOME THE ROAD WARRIOR.

A TECHNIQUE FOR FINDING DATA OR ANSWERS:

1 search engines: google.com, bing.com  
to exclude a topic from your search ad -topic  
to search a phrase: "phrase of search"

2 forums:  
search "topic forum" and ask there

3 chats

4 torrentz and ebooks:  
install utorrent, then go to a torrent search engine and search for topic ebook or topic pdf, to work a pdf file you will need to install adobe pdf

5 file hosting sites: filepump, megaupload, rapidshare, zippyshare, mediafire, zshare, filehost

6 install emule or kazaa or other file sharing program, use it to search and download rare files.

7 <http://answers.yahoo.com>

PC TECHNICIAN

as a pc technician you will need a screw driver with a magnet tip, and disk on key device, pen, pocket book.

HARDWARE:

all repairs are to be done while power is of, and after you touch the floor to discharge static electricity.

all the computers parts connect to its motherboard, replace a part according to:

1 if pc doesn't turn on replace power supply(connected to the power cord)

2 noisy fan: replace it

3 pc stuck at windows load : replace power supply

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- 4 pc stuck after bios: try to replace memory cards: cards found on middle of mother board
- 5 pc crashes during work time: try to replace hard disk: box connected to motherboard by wires
- 6 when buying new parts show the sales man the old ones
- 7 connect a ups to your power supply to save it from blackouts

### fixes for complex computer problems:

- 1 dust can cause unexplained problems, clean the fans with a spray can of pressured air,
- 2 computers older than 5 year need the bios battery(round found on motherboard) replaced
- 3 computer over beeps at summer: take out cpu cooler walls under fan in middle of motherboard, smear thermic cream(cost up to 2\$) on cpu, return parts

### cards replace:

sound, video, network cards are place on the edge of the mother board.

check if the problem isn't caused by monitor, speaker, if the problem is not connecting to the internet call the isp(internet service provider).

1 to upgrade pc

2 drivers cd of previous card were lost and pc was formatted with operating system

3 glitch related to card

if the problem isn't number 2, first try removing card, blowing air on it and in its slot, or at second time also use an eraser on its contacts before returning it

### SOFTWARE:

1 installing windows: the best windows is windows pro sp3, after that windows 7. when pc is turned on, press del to enter bios, insert win cd, choose startup devices from cd(not hd or hard disk), follow install wizard, when your finished return to bios, and set startup from HD(hard DISK)

2 install driver from driver cd's that arrive with pc , cards, and devices such as printers, webcams do not install anything but the drivers from the drivers, choose custom installation

3 call your isp tell them you installed an operating system(OS) and you need a dialer to connect to the internet.

4 get safe surfing from the isp to prevent viruses from sites.

5 search, download and install cccp (combined community codec pack) to be able to play any movie files you have

6 set restore point: start, all programs, accessories, system, tools, system restore. after you create it you can restore the pc to it's state at the restore point to undo a glitch.

7 safe mode: press f8 when computer boots this will disable the activation of unneeded software like viruses at start up, so you can restore your system or run antivirus or back up files

8.1 passwording the pc is from: start, control panel, user accounts

8.2 switching user accounts: start, log off

8.3 right click a folder, check encrypt to enable its access by the current user only

9 winrar: a software for encrypting AND unpacking rar files (a stronger version of winzip)

10.1 network setup wizard : connect each pc to a router (via network wire), go to start, control panel, network connections, set up a home or small office network, follow the wizard to share files and printers.

10.2 share an internet connection: if 1 pc connects to the internet (not via a router, via a adsl modem)

if there are 2 pc's connect them via a crossed wire, >2 pc's connect them via a hub and network cable.

in network connections, share an internet connection, in the wizard mention for each pc if it directly connects to the modem or not.

10.3 installing a network card: after installing its driver, my network connections, right click local area network

, right click network card, properties, check tcp/ip, go to advanced tab to define firewall.

11 internet data clearing: in the browser, tools, internet options, delete to erase videos watched, cookies( delete once a month), and you can delete browsing history.

12 router: to connect wirelessly to the router the pc must have usb wifi or built in wifi(for laptops or new pc's)

to define the router after its connected to a pc via network cable, and connected to a modem or if it has a built in modem

. start, run,ipconfig/all then in the browser go to the number in default gateway to define the router and start

surfing.also you can define your router by calling your isp or using its install cd. chose PPOE for adsl connection

or dhcp for cable connection to the internet

13 sharing folders: right click the folder, allow sharing(other pc's in your network can now access the folder via my

network connections, you get all sorts of sharing options. from the sharing pc you can map a folder make it easier

to share by right clicking it.

14 remotely control a pc:right click my computer, remote tab, check allow users...at technician place: start, all programs, accessories, remote desktop, type client ip.

to get client ip ask him to go to :ipchicken.com and read you the number.

client request for remote assistance: in this way both client and technician have control over the pc:start

, all programs, remote assistance

alternatively you can use the program team viewer.

15 software recommendations:

antivirus: kaspersky, or nod32

webbrowser: maxthone or google chrome

winrar, adobe reader (for reading pdf files), emule(to download rare files), primo pdf to print pdf files

camstudio (to make video of screen capture), speedfan (to get your cpu temperature)

utorrent(to download files)

cccp (to be able to play any movie files)

in yahoo.com you can open an email account

16 amd processors are better and cheaper than intel, intel will glitch.

17 Scheduled Tasks run a task automatically:

start, all programs, Accessories, system tools, scheduled task, Double-click Add Scheduled Task.  
when you browse this is the root for defrag : %systemroot%\system32\defrag.exe  
c: is system root. you should defrag at least once a month to speed up your pc.

18 fax :

Setting Up and Configuring Windows XP Fax

1 add a modem card, install its drivers cd, connect it to a phone line.  
2 start, Control Panel, Add or Remove Programs, Add/Remove Windows Components, Fax Services  
check box, next

configure the Fax Console:

1 start, all programs ,Accessories, Communications, fax, Fax Console  
2 Tools, Configure Fax, Select Device for Sending or Receiving Faxes page - select your modem  
3 Transmitting Subscriber Identification (TSID) and Called Subscriber Identification (CSID) pages  
enter your details

Sending Faxes from Your Computer

1 On the File menu of the document, click Print (choose the fax)  
2 Telephone numbers must be in the canonical form in which a U.S. number would appear as +1  
(646) 888-1111

## KEY CODES

ctrl + f - find (text or words in files with text)  
ctrl + A - mark all text or files  
ctrl + Z - undo text changes  
ctrl + C - copy marked text or files  
ctrl + V - paste marked text or files  
ctrl + X - cut marked text or files  
ctrl + mouse left click - mark each file  
shift + delete key - delete files marked  
shift + left right arrow keys : mark text  
windows key + L - lock windows, then you can reenter with the password set in the user accounts  
alt + F4 key - exit program, or shut down pc  
alt + ctrl + DELETE key - exit stuck program  
ctrl + left or right arrows - move fast word by word on text  
ctrl + p - print

## WINDOWS SERVER ADMINISTRATION

Install and Configure Windows 2003 Active Directory

Active Directory Requirements:

An NTFS partition with approximately 2Gb free Space

An Administrator's username and password and separate Directory Services Restore Mode Password.

Properly configured TCP/IP network connection, with IP Address , Subnet mask and Default Gateway.

An operational DNS server (which can be installed on the DC itself)

A Domain name

assuming win server 2003 was installed:

1 Start the install from the start, all programs, admin tools "Configure Your Server" wizard or by typing DCPromo from the Run prompt (start, run , cmd)

2 in the install wizard : Select "Domain Controller (Active Directory)" then press Next

3 install dns on this computer

Install and Configure Windows 2003 DHCP (distribution of ipaddresses to client pc's):

1 Open the Windows Components section of Add/Remove programs

2 Open Network Services

3 Ensure that the DHCP checkbox is ticked and press OK

4 Using the 80/20 Rule for Servers and Scopes

\*can skip paragraph

To provide fault tolerance for the DHCP service within a given subnet, you can configure two DHCP servers to assign

addresses on the same subnet. Here if one server fails then the other can take over. For balancing DHCP server use

in this case, a good practice is to use the 80/20 rule to divide the scope addresses between the two DHCP servers.

Server 1 is configured to assign 80% of the total addresses and server 2 is assigned the other 20%. Both servers have

the same IP range but exclude each others portion of that range.

Open the DHCP Management Console from start, all programs, Administrative Tools

Select New Scope (right click on left side of dhcp window ) (this will be range of ipaddresses) fill for example : start ip 198.168.1.1 end ipaddress 198.168.1.254 length 24 subnet mask 255.255.255.0

the router ip is the default gateway it is not to be used in the dhcp scope

wins server - you don't need to configure

authorize the new scope from the dhcp window (by right click left side of dhcp window)

Install and Configure Windows 2003 DNS

Open the Windows Components part of Add/Remove Programs, networking services, Press Details

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, domain name server, Press OK, right click forward lookup zone, follow the wizard.

#### BATCH FILE RUN LIST OF COMMANDS.

create a batch file: right click mouse, new, txt file, type commands in file, change file name ending to .bat, double click file to run commands typed in it

2 commands:

@echo off - no messages  
echo - messages  
dir c:\windows - get folder and files list of c:\windows  
pause - pause  
ECHO Hello %1 moti - %1,%2... are variables the lines output is hello moti  
:: or rem - add comments after that ,it does nothing  
:LABEL - :word then you can jump to that line using goto  
CALL - run a different batch file  
CLS - clear screen  
ECHO - write what is after echo, echo. is an empty line  
@echo off - nothing will be written

GOTO END  
ECHO SKIPPING THIS  
:END  
ECHO DONE

IF [NOT] string1==string2 command  
IF [NOT] EXIST filename command

EXIST filename - Specifies a true condition if the specified filename exists  
command - your command will execute if the if sentence is true  
[not] - reverses if condition

```
IF EXIST filename. (  
del filename.  
) ELSE (  
echo filename. missing.  
)  
IF EXIST filename. (del filename.) ELSE echo filename. missing
```

START C:\WINDOW\CALC - will start calc program  
START /MAX C:\Windows\NOTEPAD.EXE

3 sample batch program:

```
@ECHO OFF  
REM - LABEL INDICATING THE BEGINNING OF THE DOCUMENT.  
:BEGIN  
CLS  
REM - THE BELOW LINE GIVES THE USER 3 CHOICES (DEFINED AFTER /C:)  
CHOICE /N /C:123 PICK A NUMBER (1, 2, or 3)%1  
REM - THE NEXT THREE LINES ARE DIRECTING USER DEPENDING UPON INPUT  
IF ERRORLEVEL ==3 GOTO THREE
```

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```
IF ERRORLEVEL ==2 GOTO TWO
IF ERRORLEVEL ==1 GOTO ONE
GOTO END
:THREE
ECHO YOU HAVE PRESSED THREE
GOTO END
:TWO
ECHO YOU HAVE PRESSED TWO
GOTO END
:ONE
ECHO YOU HAVE PRESSED ONE
:END
```

4 Below is an example of how to delay a batch file any where from 5 to 99 seconds  
TYPE NUL | CHOICE.COM /N /CY /TY,5 >NUL

5 Deleting files in MS-DOS without a prompt:

deltree c:\windows\temp\\*.\* /y deletes all files in temp folder

option 2:

```
echo y | del %1\*.*
```

Once created, you can type the name of the batch file then the name of the directory that you wish to delete.

6 How to execute commands in a batch file in timed intervals:

```
:START
REM Execute the MS-DOS dir command ever 20 seconds.
dir
SLEEP 20
GOTO END
```

7 How to shut down / restart the computer with a batch file:

```
shutdown -r -c "Rebooting for latest updates."
```

Shutdown and restart the computer

```
shutdown -s -c
```

```
shutdown
```

8 How to run a batch file each time the computer boots:

Create a shortcut to the batch file. Additional information about how to create a shortcut can be found on document CH00739.

Once the shortcut has been created right-click the file and select Cut.

Click Start, Programs, right-click the Startup folder and click Open

Once the Startup folder has been opened click Edit and paste the shortcut into the startup.

Any shortcuts in the startup folder will automatically start each time Windows starts.

option 2:

start, run, regedit, choose HKEY\_CURRENT\_USER, software, microsoft, windows, currentversion,

run,

rightclick right window(if you use english), new string value, name it, double click it, type:

c:\windows\system32\mspaint.exe (or other file to run at start up)

start, run, msconfig, check if its in startup tab

9 How to run a batch file at a specific time:

Click Start  
Click Programs  
Click Accessories, System Tools, and then Scheduled Tasks.  
click Add Scheduled Task

```
10 loop :  
@echo off  
cls  
:start  
echo This is a loop  
pause  
goto start
```

11 quickly replace the file extensions of several files:  
xcopy also keeps the originals  
xcopy \*.shn \*.wav  
rename \*.shn \*.wav

12 navigation:  
cd\  
cd foldername  
(here put command like xcopy)

13 text files:  
ECHO Your text goes here >filename.txt  
That would add "Your text goes here" to the file filename.txt

ECHO New line >>filename.txt  
That would add a new line to the same file, keeping the current contents as well.

ECHO Erase the file >filename.txt  
That would erase the contents of the file and start it fresh.

ECHO. >>filename.txt  
That above (with the period after ECHO) would add a blank line.

Notice the difference between the single > and double >>  
The single > will erase anything that's already in the file and start it fresh.  
The double >> will keep what's already in the file and add a new line.

## TO TURN OFF SECURITY CENTER ALERTS

Start, click Control Panel, Double-click Security Center, under Resources, click Change the way Security Center alerts me, In the Alert Settings dialog box, clear the Firewall, Automatic Updates, or Virus Protection check boxes, and then click OK.

## UPDATE WINDOWS XP

windowsupdate.microsoft.com/

## HIDE YOUR IP

to change your ipaddress (the one displayed on servers(websites)) you surf to :

1 install foxyproxy

2 go to proxz.com , click high anonymous, copy from the list an ipaddress and port to the foxyproxy

or use : youhide.com

## YOU CAN UPLOAD AND DOWNLOAD YOUR FILES USING THIS SITES( A BACKUP TECHNIQUE)

rapidshare.com  
mediafire.com  
sharingmatrix.net  
filefactory.com  
filesonic.com  
zshare.net  
megaupload.com  
oron.com  
fileserv.com  
box.net  
mydrive.ch

i recommend zipping the files with winrar before upload to speed the upload.

## CUSTOM RSS FEED

get update of all your favorite sites in 1 place :  
<http://feedweaver.net/>

## VB.NET:

vb.net - visual basic 2010 is a compiler - a program that make programs using cheats.

install: go to google.com, search vb.net download.

after install:

file: here you can open a new project(create a program(choose form its easiest)),save,load...

tools:double click a tool (left bar of screen) it adds to your form, double click appeared tool and you can write code for what happens when the tool is clicked.

also double click tool events(right of screen with form(lightning symbol)) to code for those events.

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while coding: write tools name (as appears in its changeable properties (at right of screen with form))  
dot

then choose or type a property to change. example : `textbox.text = "hello"`

the form is considered as a tool, double click it to write code for its load event

variables: examples: `dim x as integer`

comment example: `dim s as string 'string variable`

global variables : are declared outside of sub (procedure or function) and can be used by all subs

local variables: declared inside subs and can be used within the sub in which they were declared

special operators: / division, \* multiply, ^ exponent, & string concat, \ integer division, mod remainder  
division

intellisense: right click and choose the code snippet you want (if statements, loops, select case and more) , tab key.

imports: see vb.net sp codes for example

1 install some sdk or something (not always mostly not needed)

2 add vb control (not always mostly not needed)

3 add reference

4 add import statement at 1st line of the code area (outside of the class )

5 you can now use lines of code unlocked by stages 1-4 in the subs

class:

add class from project menu (from here you can also add a form)

```
public className
    dim x as string 'or public x as string or private x as integer
    private hidden as integer 'can be used only in class
    sub s1()
    end sub
    sub s2()
        hidden = 5
        x = hidden
    end sub
end class
```

to use the class: in a sub in the main code:

```
dim j as new className()
```

then you can reference the objects powers:

```
r = j.x
```

```
j.s1()
```

```
j.x = "true ogre"
```

```
j.s2
```

can not reference `j.hidden`

inheritance: add class:

```
public class classB
```

```
inherits className
```

```
variables
```

```
subs
```

```
end class
```

in the main code classB can use classNames powers and its own whereas className can't use classB's powers

```
subs:
sub sA(byval x as integer) as integer
    return x + 1
end sub
sub sB()
    msgbox("hello")
end sub
sub sC(byref x as string)
    x &= "hello"
endsub
use subs from within other subs or event subs :
sA(1) 'returns 2
sB() 'message "hello"
dim s1 as string = "konichiwa"
sC(s1) ' s1 = "konichiwahello"
```

dictionary type: this is the most powerful variable in the vb.net arsenal it uses hash tables to find data for its corresponding keys(fastest):

```
imports system.collections.generic
declar it in the class:
dim d as new dictionary (of string,string) ' or (of any variable,any variable)(of keys,data)
get data: d(key) : x =d(keyVariable)
d. 'choose a dictionary technique like add a key and value
d(key)= newValue 'change data for key
to refer to all the data in dictionary (lets call it d):
for each pair as keyvaluepair(of string,integer) in d
    sum += pair.value
next
```

```
array: dim ar(index1,index2...) as integer 'or other data type
or: dim ar(0-3) as short or dim ar(variable - 2) as integer
assign value: ar(1,2) = 3 'for example
also : dim ar() as string ={"hi", "wasap", "yo"}
for 2 dimensions: dim ar = {{9,1},{60,5}} and so on
Lbound(arrayName) returns the start index of the array
Ubound(arrayName) returns the last index of the array
array.sort(arrayname) : sorts the array
```

the try snippet of the intellisense can negate a glitch from stopping the program. put the code that might cause a problem after try, and after catch you can put code to run if a glitch accord.

debug: f5 or green arrow.  
debug step by step: blue arrows next to debug green arrow  
add watch for variables to track them while step by step debug: right click variables from code and add watch.

VB SPECIAL CODES

AMP IT UP

- 1 x = CStr(Int(Rnd() \* 10)) 'variable x = exampeled random number
- 2 beep() 'beeps
- 3 add new line to a multiline text box:  
    textBox1.Text = "Your First Line" & vbCrLf & "Your second line"  
    or textBox.AppendText(Environment.NewLine & "your new text")
- 4 volume meter:
  - 4.1 install your usb microphone (or webcam mic) drivers from its cd
  - 4.2 download and install audioLab and its pdf manual from:  
    mitov.com/html/download\_audiolab.html
  - 4.3 follow the manual till you have the vumeter control on your vb toolbox
  - 4.4 connect usb microphone
  - 4.5 add the control vumeter , properties:period 100(0.1 seconds)
  - 4.6add the control audio in
  - 4.7click the audio in little arrow, choose your usb microphone
  - 4.8 audio in properties : output pin : check vumeter
  - 4.9 double click event of vumeter to code, in the code textbox.text = args.avalue
- 5 robotic output: you will need a usb microcontroller to send output signals from your computer  
    search for vb.net microcontrollers/usb dc motors/vb.net robotics controller  
    also trossen robotics and pc-control sells that stuff and it should come with a walkthrough
- 6 record sound from usb microphone:  
    Public Class Form1

```
Private Declare Function mciSendString Lib "winmm.dll" Alias "mciSendStringA" (ByVal  
lpstrCommand As String, ByVal lpstrReturnString As String, ByVal uReturnLength As Integer, ByVal  
hwndCallback As Integer) As Integer
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button1.Click
```

```
' record from microphone
```

```
mciSendString("open new Type waveaudio Alias recsound", "", 0, 0)
```

```
mciSendString("record recsound", "", 0, 0)
```

```
End Sub
```

```
Private Sub Button2_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button2.Click
```

```
' stop and save
```

```
mciSendString("save recsound c:\record.wav", "", 0, 0)
```

```
mciSendString("close recsound", "", 0, 0)
```

```
End Sub
```

```
Private Sub Button3_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button3.Click
```

```
' play audio
```

```
My.Computer.Audio.Play("c:\record.wav", AudioPlayMode.Background)
```

End Sub

End Class

add controls according to squigly lines in code

7 textbox enter key pressed event: double click textbox event key up

```
If e.KeyCode = Keys.Enter Then
    'some code
end if
```

8 save text file:

8.1 Imports System.IO (1st line of code)

8.2 If File.Exists("path string") Then 'c:\wasap.txt for example

```
File.Delete("path string")
File.Delete("path string")
```

End If

instead of using imports.io you can use in the code: io.file.

8.3 File.WriteAllText(pathString, dataString) '

8.4 to read txt file :

```
File.ReadAllText(pathString)
```

9 webcam image capture:

Public Class Form1

```
Const WM_CAP As Short = &H400S
```

```
Const WM_CAP_DRIVER_CONNECT As Integer = WM_CAP + 10
```

```
Const WM_CAP_DRIVER_DISCONNECT As Integer = WM_CAP + 11
```

```
Const WM_CAP_EDIT_COPY As Integer = WM_CAP + 30
```

```
Const WM_CAP_SET_PREVIEW As Integer = WM_CAP + 50
```

```
Const WM_CAP_SET_PREVIEWRATE As Integer = WM_CAP + 52
```

```
Const WM_CAP_SET_SCALE As Integer = WM_CAP + 53
```

```
Const WS_CHILD As Integer = &H40000000
```

```
Const WS_VISIBLE As Integer = &H10000000
```

```
Const SWP_NOMOVE As Short = &H2S
```

```
Const SWP_NOSIZE As Short = 1
```

```
Const SWP_NOZORDER As Short = &H4S
```

```
Const HWND_BOTTOM As Short = 1
```

```
Dim iDevice As Integer = 0
```

```
Dim hHwnd As Integer
```

```
Declare Function SendMessage Lib "user32" Alias "SendMessageA" (ByVal hwnd As Integer,
ByVal wParam As Integer, ByVal wParam As Integer, ByVal lParam As Object) As Integer
```

```
Declare Function SetWindowPos Lib "user32" Alias "SetWindowPos" (ByVal hwnd As Integer,
ByVal hWndInsertAfter As Integer, ByVal x As Integer, ByVal y As Integer, ByVal cx As Integer,
ByVal cy As Integer, ByVal wFlags As Integer) As Integer
```

```
Declare Function DestroyWindow Lib "user32" (ByVal hwnd As Integer) As Boolean
```

```
Declare Function capCreateCaptureWindowA Lib "avicap32.dll" (ByVal lpszWindowName As
String, ByVal dwStyle As Integer, ByVal x As Integer, ByVal y As Integer, ByVal nWidth As Integer,
ByVal nHeight As Short, ByVal hWndParent As Integer, ByVal nID As Integer) As Integer
```

```
Declare Function capGetDriverDescriptionA Lib "avicap32.dll" (ByVal wDriver As Short, ByVal
lpszName As String, ByVal cbName As Integer, ByVal lpszVer As String, ByVal cbVer As Integer) As
Boolean
```

```
Private Sub LoadDeviceList()
```

```
Dim strName As String = Space(100)
```

```
Dim strVer As String = Space(100)
```

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```
Dim bReturn As Boolean
Dim x As Integer = 0
Do
    bReturn = capGetDriverDescriptionA(x, strName, 100, strVer, 100)
    If bReturn Then lstDevices.Items.Add(strName.Trim)
    x += 1
Loop Until bReturn = False
End Sub

Private Sub OpenPreviewWindow()
    Dim iHeight As Integer = picCapture.Height
    Dim iWidth As Integer = picCapture.Width
    hHwnd = capCreateCaptureWindowA(iDevice, WS_VISIBLE Or WS_CHILD, 0, 0, 640, 480,
picCapture.Handle.ToInt32, 0)
    If SendMessage(hHwnd, WM_CAP_DRIVER_CONNECT, iDevice, 0) Then
        SendMessage(hHwnd, WM_CAP_SET_SCALE, True, 0)
        SendMessage(hHwnd, WM_CAP_SET_PREVIEWRATE, 66, 0)
        SendMessage(hHwnd, WM_CAP_SET_PREVIEW, True, 0)
        SetWindowPos(hHwnd, HWND_BOTTOM, 0, 0, picCapture.Width, picCapture.Height,
SWP_NOMOVE Or SWP_NOZORDER)
        btnSave.Enabled = True
        btnStop.Enabled = True
        btnStart.Enabled = False
    Else
        DestroyWindow(hHwnd)
        btnSave.Enabled = False
    End If
End Sub

Private Sub btnSave_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnSave.Click
    Dim data As IDataObject
    Dim bmap As Image
    SendMessage(hHwnd, WM_CAP_EDIT_COPY, 0, 0)
    data = Clipboard.GetDataObject()
    If data.GetDataPresent(GetType(System.Drawing.Bitmap)) Then
        bmap = CType(data.GetData(GetType(System.Drawing.Bitmap)), Image)
        picCapture.Image = bmap
        ClosePreviewWindow()
        btnSave.Enabled = False
        btnStop.Enabled = False
        btnStart.Enabled = True
        If sfdImage.ShowDialog = DialogResult.OK Then
            bmap.Save(sfdImage.FileName, Imaging.ImageFormat.Bmp)
        End If
    End If
End Sub

Private Sub ClosePreviewWindow()
    SendMessage(hHwnd, WM_CAP_DRIVER_DISCONNECT, iDevice, 0)
    DestroyWindow(hHwnd)
End Sub

Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
```

```
Handles MyBase.Load
    LoadDeviceList()
End Sub
```

```
Private Sub btnStart_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnStart.Click
    OpenPreviewWindow()
    btnStart.Enabled = False
    btnStop.Enabled = True
End Sub
```

```
Private Sub btnStop_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles btnStop.Click
    ClosePreviewWindow()
    btnStart.Enabled = True
    btnStop.Enabled = False
End Sub
End Class
```

add controls according to squigly lines in code  
10 text to speech:

project add referense com (tab) microsoft sapi 5.0

imports speechLib 'at start of code

dim voice as new spvoice ' define as global variable

in a sub:

```
voice.speak("text or string variable")
```

```
11 inputbox: x = inputbox(promtString)
12 declare many variable at once: dim x,y,z as integer
13 get the time: stringVariable = timestring
    get date: stringVariable = dateString 'or - now
    get hour: stringvariable = hour(date)
    same for month, year and weekday
14 shortcut: x = x+ 5 is like x+=5 the same goes for the other operators
15 read txt 2nd way: (imports system.io)
    dim str as streamreader
    str = new streamreader("c:\test.txt") ' or other path string
    someString = str.readline()
    str.close()
16 2nd way to write in a text file:(imports system.io)
    dim stw as StreamWriter = file.creattext(path string on hard disk)
    stw.write(data string)
    stw.close()
    'to continue with other text:
    stw = file.creattext( 2nd path string on hard disk)
    stw.write(data string)
    stw.close()
17 get absolute: imports system.math
    x = abs(a - b) ' same as abs(10 - 99) x = 89
```

18 add a tab to a string or textbox: `textbox1.text &= vbtab`

19 convert type of variable:(explicit conversion)

```
Dim MyNumber As Long
```

```
Dim MyNewType As Single
```

```
MyNumber = 1000
```

```
MyNewType = CType(MyNumber,Single) ' MyNewType is set to 1000.0.
```

implicit conversion:

```
Dim d=132.31223 as Double
```

```
Dim i as Integer
```

```
i=d
```

```
WriteLine("Integer value is" & i)
```

20 set an icon for your program:

project, properties, select icon (assuming you downloaded one(an icon file end with .ico))

21 graphics: imports `system.drawing.graphics` (you can skip that imports line)

draw shape:

```
Dim GraphicsFun As Graphics
```

```
GraphicsFun = Me.CreateGraphics
```

```
Dim PenColor As New Pen(System.Drawing.Color.Red) 'or brush to fill color in shape
```

```
GraphicsFun.DrawEllipse(PenColor, 10, 120, 200, 160) ' or drawline drawwhatever intellisense offers
```

move object on form:

```
PictureBox1.Location = New Point(300, 200)
```

animate:

Use a timer event procedure to modify the Left, Top, or Location property for an object on the form. The timer's Interval property controls animation speed.

change object size : Change the object's Height property or Width property.

transparency of a form: Change the form's Opacity property.

22 chat online:

22.1 use webbrowser control and surf to an internet site with a chat

22.2 2nd way install c4f (it's for vb.net) then vb will have chat control in it's toolbox

23 the timer control fires events every set amount of time.

24 special for loop:

```
For x As Single = 0 To 2.5 Step 0.5
```

```
'some code
```

```
Next
```

25 mouse get set position, detect generate click:

```
public class form1
```

```
'declare for setting mouse position
```

```
private declare function setCursorPos lib"user32"(byVal x As integer, byVal y As integer) As integer
```

```
'to detect mouse click declare:
```

```
private declare function getAsyncKeyState lib "user32"( byVal vKey As long) As integer
```

```
'declare to be able to generate a mouse click:
```

```
private const MOUSEEVENTF_LEFTDOWN = &h2
```

```
private const MOUSEEVENTF_LEFTUP = &h4
```

```
private const MOUSEEVENTF_RIGHTDOWN = &h8
```

```
private const MOUSEEVENTF_RIGHTUP = &h10
```

```
private declaresub mouse_event lib "user32" (byVal dwflags as integer, byVal dx as integer, byVal dy as integer, byVal cbuttons as integer, byVal dwExtraInfo as integer)
```

```
'in a sub such as key down event:
```

```
dim mp As point = mouseposition 'point with mouse pixel coordinates on the screen
```

```
' or get mouse position with:
```

```
textbox1.text = cursor.position.x ' or .y
```

```
str1 = mp.toString() ' returns a text string of mouse coordinates str1 is a string you declare
```

```
setcursorpos(x,y) 'x,y are integers or integer variables
```

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'to generate mouse click:

```
mouse_event(MOUSEEVENTF_LEFTDOWN,0,0,0,0)
mouse_event(MOUSEEVENTF_LEFTUP,0,0,0,0)
mouse_event(MOUSEEVENTF_LEFTDOWN,0,0,0,0)
mouse_event(MOUSEEVENTF_LEFTUP,0,0,0,0) 'double click
```

'to detect mouse click: (in a sub)

```
if getAsyncKeyState(1) then
    'code for left click for getAsyncKeyState(1), right click getAsyncKeyState(2)
```

26 sendkeys from program to notepad or open textboxes(in browsers also):

```
sendkeys("text")
sendkeys("{enter}")
dim x as string
x = "hello"
sendkeys(x)
```

27 rss feed:

```
Dim s As String
Dim myURL As String = "http://stateofidleness.com/feed/"
Dim request As HttpWebRequest = WebRequest.Create(myURL)
Dim response As HttpWebResponse = request.GetResponse()
Using reader As StreamReader = New StreamReader(response.GetResponseStream())
    s = reader.ReadToEnd()
End Using
MsgBox(s) 'Set your Textbox1.Text here
```

28 f1 - offers example code, you can click f1 after clicking a tool you added to your form for example.  
basic tricks: ctrl z - undo your last action, ctrl c - copy (text or tool(aka activx)), ctrl v - paste

29 sending a fax:

fxscom.dll in your WINDOWS\system32 directory. If it's not there try to install FAX Services from Windows components.

as explained in fax of pc technician chapter.

References in Solution Explorer and choose Add Reference, COM tab, select FaxControl 1.0 Type Library

```
Private Sub Form_Load()
    Dim objFaxDocument As New FAXCOMEXLib.FaxDocument
    Dim objFaxServer As New FAXCOMEXLib.FaxServer
    Dim objSender As FAXCOMEXLib.FaxSender
    Dim JobID As Object
```

```
'Error handling
On Error GoTo Error_Handler
```

```
'Connect to the fax server
objFaxServer.Connect("")
```

```
'Set the fax body
objFaxDocument.Body = "c:\Docs\Body.txt"
```

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'Name the document

```
objFaxDocument.DocumentName = "My First Fax"
```

'Set the fax priority

```
objFaxDocument.Priority = FAXCOMEXLib.FAX_PRIORITY_TYPE_ENUM.fptHIGH
```

'Add the recipient with the fax number 12225550100

```
objFaxDocument.Recipients.Add("12225550100", "Bud")
```

'Choose to attach the fax to the fax receipt

```
objFaxDocument.AttachFaxToReceipt = True
```

'Set the cover page type and the path to the cover page

```
objFaxDocument.CoverPageType =
```

```
FAXCOMEXLib.FAX_COVERPAGE_TYPE_ENUM.fcptSERVER
```

```
objFaxDocument.CoverPage = "generic"
```

'Provide the cover page note

```
objFaxDocument.Note = "Here is the info you requested"
```

'Provide the address for the fax receipt

```
objFaxDocument.ReceiptAddress = "someone@example.com"
```

'Set the receipt type to email

```
objFaxDocument.ReceiptType = FAXCOMEXLib.FAX_RECEIPT_TYPE_ENUM.frtMAIL
```

'Specify that the fax is to be sent at a particular time

```
objFaxDocument.ScheduleType =
```

```
FAXCOMEXLib.FAX_SCHEDULE_TYPE_ENUM.fstSPECIFIC_TIME
```

'CDate converts the time to the Date data type

```
objFaxDocument.ScheduleTime = CDate("4:35:47 PM")
```

```
objFaxDocument.Subject = "Today's fax"
```

'Set the sender properties.

```
objFaxDocument.Sender.Title = "Mr."
```

```
objFaxDocument.Sender.Name = "Bob"
```

```
objFaxDocument.Sender.City = "Cleveland Heights"
```

```
objFaxDocument.Sender.State = "Ohio"
```

```
objFaxDocument.Sender.Company = "Microsoft"
```

```
objFaxDocument.Sender.Country = "USA"
```

```
objFaxDocument.Sender.Email = "someone@microsoft.com"
```

```
objFaxDocument.Sender.FaxNumber = "12165555554"
```

```
objFaxDocument.Sender.HomePhone = "12165555555"
```

```
objFaxDocument.Sender.OfficeLocation = "Downtown"
```

```
objFaxDocument.Sender.OfficePhone = "12165555553"
```

```
objFaxDocument.Sender.StreetAddress = "123 Main Street"
```

```
objFaxDocument.Sender.TSID = "Office fax machine"
```

```
objFaxDocument.Sender.ZipCode = "44118"
```

```
objFaxDocument.Sender.BillingCode = "23A54"
```

```
objFaxDocument.Sender.Department = "Accts Payable"
```

'Save sender information as default

```
                battle programming 2011 3rd edition.txt
objFaxDocument.Sender.SaveDefaultSender()
```

```
'Submit the document to the connected fax server
'and get back the job ID.
```

```
JobID = objFaxDocument.ConnectedSubmit(objFaxServer)
```

```
MsgBox("The Job ID is :" & JobID(0))
```

```
objFaxServer.Disconnect()
```

```
Exit Sub
```

```
Error_Handler:
```

```
'Implement error handling at the end of your subroutine. This
' implementation is for demonstration purposes
MsgBox("Error number: " & Hex(Err.Number) & ", " & Err.Description)
```

```
End Sub
```

```
or:
```

```
Imports FAXCOMEXLib
```

```
Imports FAXCOMLib
```

```
Imports System.IO
```

```
Imports System.IO.StreamWriter
```

```
Public Class Form1
```

```
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
```

```
Handles Button1.Click
```

```
    Try
```

```
        Dim objFaxDocument As New FAXCOMEXLib.FaxDocument
```

```
        Dim objFaxServer As New FAXCOMEXLib.FaxServer
```

```
        Dim JobID As Object
```

```
        objFaxServer.Connect("")
```

```
        objFaxDocument.Body = "c:\Test.txt"
```

```
        objFaxDocument.DocumentName = "My First Fax"
```

```
        objFaxDocument.Recipients.Add("902380663584", "Bud")
```

```
        objFaxDocument.AttachFaxToReceipt = True
```

```
        objFaxDocument.Note = "Here is the info you requested"
```

```
        objFaxDocument.Subject = "Today's fax"
```

```
        JobID = objFaxDocument.ConnectedSubmit(objFaxServer)
```

```
        MsgBox("The Job ID is :" & JobID(0))
```

```
        Catch ex As Exception
```

```
            MsgBox("Error number: " & Hex(Err.Number) & ", " & Err.Description)
```

```
        End Try
```

```
    End Sub
```

```
End Class
```

```
30 reminder comments : 'TODO something
```

```
or
```

```
' HACK something
```

```
31 detect keyboard keys while form and its controls are not in focus:
```

```
Set the Form's KeyPreview property to True and handle the KeyPress/KeyDown/etc event.
```

32 splash screen : (a screen to appear briefly when the program loads)

Click on the project in the Solution Explorer panel, add new item, Splash Screen template

Set the splash screen to be the first form to load:

click Project, Properties, Insert the name of the splash screen in the Start form box

33 kill process

```
Sub Main()  
    Dim proc() As Process = Process.GetProcesses  
    For i As Integer = 0 To proc.GetUpperBound(0)  
        Console.WriteLine(proc(i).ProcessName)  
        If proc(i).ProcessName = "firefox" Then  
            proc(i).Kill()  
        End If  
    Next  
    Console.ReadLine()  
End Sub
```

34 COM PORT

add a button all properties are default

```
Imports System
```

```
Imports System.IO.Ports
```

```
Public Class Form1
```

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles  
Button1.Click
```

```
Dim _serialPort As SerialPort
```

```
_serialPort = New SerialPort("com1")
```

```
_serialPort.Open()
```

```
'code here
```

```
MsgBox("opened")
```

```
_serialPort.Close()
```

```
MsgBox("closed")
```

```
End Sub
```

```
End Class
```

35 picture dispose

myImage = Image.FromFile("file path here") or this:

vb.net Code:

myImage = New Bitmap("file path here") then that's why the file is in use. Releasing the file is simple:

vb.net Code:

```
myImage.Dispose
```

36 ' get your ipaddress

```
imports system.net
```

```
'in a sub:
```

```
dns.getHostName ' returns computer name
```

```
' get ipaddress
```

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me.combobox1.items.AddRange(dns.getHostAddresses()) ' assuming you added a combo box to the form

37 openFileDialog :

me.openfiledialog.filename = string.empty

me.openfiledialog.showdialog() ' choose file its name goes in me.openfiledialog.filename

38 replace new line with </br> or other

```
RichTextBox1.Lines = (From line As String _
    In RichTextBox1.Lines _
    Select line & "</br>").ToArray()
```

39 ENCRYPTION :

Be sure to Import these at the top of your class as well:

Code:

Imports System.IO

Imports System.Security.Cryptography

Imports System.TextCode:

Private bytIV() As Byte = {190, 45, 111, 11, 32, 89, 21, 9, 255, 97, 8, 55, 44, 211, 23, 63}

Private Const chrKeyFill As Char = "X"c

Private Const intKeySize As Integer = 32

Private Sub CryptFile(ByVal strInName As String, ByVal strOutName As String, ByVal strKey As String, ByVal booDecrypt As Boolean)

Dim bytStorage(4096) As Byte

Dim intTotalBytesWritten As Long = 8

Dim intPackageSize As Integer

Dim fin As New FileStream(strInName, FileMode.Open, FileAccess.Read)

Dim fout As New FileStream(strOutName, FileMode.OpenOrCreate, FileAccess.Write)

fout.SetLength(0)

Dim intTotalFileLength As Long = fin.Length

Dim rij As New System.Security.Cryptography.RijndaelManaged

Dim crsStream As CryptoStream

If booDecrypt Then

crsStream = New CryptoStream(fout, \_

rij.CreateDecryptor(ConvertKeyToBytes(strKey), bytIV), CryptoStreamMode.Write)

Else

crsStream = New CryptoStream(fout, \_

rij.CreateEncryptor(ConvertKeyToBytes(strKey), bytIV), CryptoStreamMode.Write)

End If

While intTotalBytesWritten < intTotalFileLength

intPackageSize = fin.Read(bytStorage, 0, 4096)

crsStream.Write(bytStorage, 0, intPackageSize)

intTotalBytesWritten = Convert.ToInt32(intTotalBytesWritten + intPackageSize / rij.BlockSize \*

rij.BlockSize)

End While

crsStream.Close()

```
fout.Close()  
fin.Close()  
End Sub
```

```
Private Function ConvertKeyToBytes(ByVal strKey As String) As Byte()  
    Dim intLength As Integer = strKey.Length  
  
    If intLength < intKeySize Then  
        strKey &= Strings.StrDup(intKeySize - intLength, chrKeyFill)  
    Else  
        strKey = strKey.Substring(0, intKeySize)  
    End If  
  
    Return Encoding.UTF8.GetBytes(strKey)  
End Function
```

40 usb stuff (untested) : <http://www.franson.com/serialtools/>

41 screen capture  
Public Class Form1

```
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles Button1.Click  
        Dim screenBounds = Screen.PrimaryScreen.Bounds  
        Dim screenShot As New Bitmap(screenBounds.Width, screenBounds.Height)  
        Using g = Graphics.FromImage(screenShot)  
            g.CopyFromScreen(screenBounds.Location, Point.Empty, screenBounds.Size)  
        End Using  
        PictureBox1.Image = screenShot  
        'Dim filePath = IO.Path.Combine(My.Computer.FileSystem.SpecialDirectories.MyPictures,  
"ScreenShot.bmp")  
        'screenShot.Save(filePath, Imaging.ImageFormat.Bmp)  
    End Sub  
End Class
```

42 ascii to character conversion  
chr(ascii) ' return ascii number to char

43 regex get the string in a defined middle  
Imports System  
Imports System.Text.RegularExpressions  
Public Class Form1

```
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles Button1.Click  
        Dim mCollect As MatchCollection = Regex.Matches("sjlfhal{yes}djklafh{yess}", "(?<={).*?(?=)"),  
RegexOptions.IgnoreCase)  
  
        For Each m As Match In mCollect  
            MsgBox(m.Value)  
        Next  
    End Sub  
End Class
```

' output : yes yess

44 rotate image

RotateFlipType.Rotate180FlipX ' can be set with intellisense

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
    Dim bm As Bitmap = PictureBox1.Image
    bm.RotateFlip(RotateFlipType.Rotate180FlipX)
    PictureBox1.Image = bm
End Sub
```

45 prevent 2 programs from running simoultaneously

Imports System.Threading

Public Class Form1

```
Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs)
```

Handles MyBase.Load

```
    Dim Mutex_Object As Mutex 'We will be working with Mutex
```

```
    Mutex_Object = New Mutex(False, "Pervent Twice Open") ' Were you see "Pervent Twice Open"
```

that's where you put the name of your project.

```
    If Mutex_Object.WaitOne(0, False) = False Then 'lets perform the check
```

```
        MessageBox.Show("The same application is opened twice.")
```

```
        Application.Exit()
```

```
    End If
```

```
End Sub
```

```
End Class
```

## SQL DATABASE AND VB.NET

new project

project, add new item, service based database

finish

view, database explorer, +, tables, rightclick add new table

from table created add data, and tab to move to the next field

save all, data sources, add new data source, database, connection string copy (after click +) and save it in a text file !,

next, check all, finish

connection string also at rightclick database, properties (in database explorer)

ado auto navigator: data sources, +,+ of table, arrow, details, drag the table in to the form. you can add, delete

insert now with the new control. you can alternitively use this codes:

the examples were tested on a 1 table database with 2 fields : fname, lastname

add

```
Imports System.Data.SqlClient 'present in all sql codes
```

insert:

```
Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles Button1.Click
```

```
    Dim connetionString As String
```

```
    Dim connection As SqlConnection
```

```
    Dim adapter As New SqlDataAdapter
```

battle programming 2011 3rd edition.txt

```
Dim sql As String
connetionString = "Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\moti1.mdf;Integrated
Security=True;User Instance=True"
connection = New SqlConnection(connetionString)
Dim x, x1 As String
x = TextBox1.Text
x1 = TextBox2.Text
sql = String.Format("insert into table1 (fname,lname) values('{0}','{1})", x, x1)
Try
    connection.Open()
    adapter.InsertCommand = New SqlCommand(sql, connection)
    adapter.InsertCommand.ExecuteNonQuery()
    MsgBox("Row inserted !! ")
Catch ex As Exception
    MsgBox(ex.ToString)
End Try
End Sub
```

Dataadapter DeleteCommand - Sql Server (in the button sub)

```
Dim connetionString As String
Dim connection As SqlConnection
Dim adapter As New SqlDataAdapter
Dim sql As String
connetionString = "Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\moti1.mdf;Integrated
Security=True;User Instance=True"
connection = New SqlConnection(connetionString)
Dim x As String
x = TextBox1.Text
sql = String.Format("delete table1 where fname ='{0}'", x)
Try
    connection.Open()
    adapter.DeleteCommand = connection.CreateCommand
    adapter.DeleteCommand.CommandText = sql
    adapter.DeleteCommand.ExecuteNonQuery()
    MsgBox("Row(s) deleted !! ")
Catch ex As Exception
    MsgBox(ex.ToString)
End Try
```

the following examples are for a different (but similar) data base:

populate and display

```
Imports System.Data.SqlClient
Public Class Form1
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button1.Click
        Dim connetionString As String
        Dim connection As SqlConnection
        Dim adapter As SqlDataAdapter
        Dim ds As New DataSet
```

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```
Dim i As Integer
    connetionString = "Data Source=ServerName;Initial
Catalog=DatabaseName;User ID=UserName;Password=Password"
    connection = New SqlConnection(connetionString)
    Try
        connection.Open()
        adapter = New SqlDataAdapter("Your SQL Statement Here", connection) 'or
        adapter.SelectCommand = New SqlCommand("Your SQL Statement Here", connection) ' end
of or
        adapter.Fill(ds)
        connection.Close()
        For i = 0 To ds.Tables(0).Rows.Count - 1
            MsgBox(ds.Tables(0).Rows(i).Item(1))
        Next
    Catch ex As Exception
        MsgBox(ex.ToString)
    End Try
End Sub
End Class
```

Dataadapter UpdateCommand - Sql Server

```
Imports System.Data.SqlClient
Public Class Form1
    Private Sub Button1_Click(ByVal sender As System.Object, ByVal e As System.EventArgs)
Handles Button1.Click
        Dim connetionString As String
        Dim connection As SqlConnection
        Dim adapter As New SqlDataAdapter
        Dim sql As String
        connetionString = "Data Source=ServerName;Initial Catalog=DatabaseName;User
ID=UserName;Password=Password"
        connection = New SqlConnection(connetionString)
        sql = "update product set product_price = 1001 where Product_name ='Product7'"
        Try
            connection.Open()
            adapter.UpdateCommand = connection.CreateCommand
            adapter.UpdateCommand.CommandText = sql
            adapter.UpdateCommand.ExecuteNonQuery()
            MsgBox("Row updated !! ")
        Catch ex As Exception
            MsgBox(ex.ToString)
        End Try
    End Sub
End Class
```

methode 2 for passing variables : \_ is down line (instead of {0},x of the delete code above)  
also: the parameters past to the sql command could be filtered from malicious sql commands and '  
for the code with {0} unless you use the following code that doesn't require fillterring.

```
Dim sql As String = "INSERT INTO User (FirstName, LastName, DateOfBirth, ChildCount) " & _
"VALUES (@FirstName, @LastName, @DateOfBirth, @ChildCount)"
Dim myCommand As New SqlCommand(sql)
With myCommand.Parameters
```

```

        battle programming 2011 3rd edition.txt
        .AddWithValue("@FirstName", Me.firstNameField.Text)
        .AddWithValue("@LastName", Me.lastNameField.Text)
        .AddWithValue("@DateOfBirth", Me.dateOfBirthPicker.Value.Date)
        .AddWithValue("@ChildCount", CInt(Me.childrenSpinner.Value))

```

End With

read all data with code: (for first example of 2 field database (fname,lname))  
add imports system.data

```

Dim con As New SqlConnection
Dim cmd As New SqlCommand
Try
    con.ConnectionString = "Data
Source=.\SQLEXPRESS;AttachDbFilename=|DataDirectory|\moti1.mdf;Integrated
Security=True;User Instance=True"
    con.Open()
    cmd.Connection = con
    cmd.CommandText = "SELECT fname, lname FROM table1"
    Dim Ird As SqlDataReader = cmd.ExecuteReader()

    While Ird.Read()
        MsgBox(Ird.Item(0).ToString())
        MsgBox(Ird.Item(1).ToString())
        ' two fields
    End While

Catch ex As Exception
    MessageBox.Show("Error while retrieving records on table..." & ex.Message, "Load Records")
Finally
    con.Close()
End Try

```

## SAVE IMAGES

Saving Images in Databases (can also be used for any files (like videos))

Loading an image from a database field:

```

Dim connection As New SqlConnection("connection string here")
Dim command As New SqlCommand("SELECT Picture FROM MyTable WHERE ID = 1", connection)
connection.Open()
Dim pictureData As Byte() = DirectCast(command.ExecuteScalar(), Byte())
connection.Close()
Dim picture As Image = Nothing
Using stream As New IO.MemoryStream(pictureData)
    picture = Image.FromStream(stream)
End Using

```

Saving an image to a database field:

```

Dim connection As New SqlConnection("connection string here")
Dim command As New SqlCommand("UPDATE MyTable SET Picture = @Picture WHERE ID = 1",

```

```
connection)
Using picture As Image = Image.FromFile("file path here")
    Using stream As New IO.MemoryStream
        picture.Save(stream, Imaging.ImageFormat.Jpeg)
        command.Parameters.Add("@Picture", SqlDbType.VarBinary).Value = stream.GetBuffer()
    End Using
End Using
connection.Open()
command.ExecuteNonQuery()
connection.Close()
```

## MINNING ACCESS DATABASES WITH VB.NET

connecting to an access database:

- 1 File > New Project from the menu bar, Windows Application
- 2 View > Solution Explorer from the menu bar, click on Data Sources, choose data source, next version 2010 of VBN NET select dataset, next
- 3 New Connection, Change button, Select Microsoft Access Database File, ok
- 4 Click the Browse button and navigate to where on your computer you downloaded our Access Database, Click Test Connection to see if everything is OK
- 5 +, save connection string in a txt file
- 6 Click No on the message box to stop VB copying the database each time it runs
- 7 from data sources you can drag and drop tables or fields to the form to navigate and edit(to edit before dragging click the arrow near the table and choose detail view)

tip: When all Textbox are selected, click on the Format menu at the top  
From the Format menu select Align > Lefts. The left edges of the Textboxes will align themselves  
From the Format menu select Vertical Spacing > Make Equal. The space between each textbox will then be the same .

codes:

OLE stands for Object Linking and Embedding

in a sub:

```
dim con As new OleDb.OleDbConnection
dim dbProvider,dbSource As string
dim ds As new DataSet
dim da As OleDb.OleDbDataAdapter
dim sql As string

dbProvider = "PROVIDER=Microsoft.jet.OLEDB.4.0;"
dbSource = "Data Source = E:/AddressBook.mdb" ' path of access database

con.ConnectionString = bProvider & dbSource

con.open()

sql = "SELECT * FROM tblContacts" 'sql command, dataset contains table tblContacts
```

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```
da = new OleDb.OleDbDataAdapter(sql, con)
da.Fill(ds, "AddressBook") ' dataset filled
```

```
con.close()
```

```
txtFirstName.Text = ds.Tables("AddressBook").Rows(0).Item(1) ' getting data from ds
txtSurname.Text = ds.Tables("AddressBook").Rows(0).Item(2)
```

```
'or
```

```
'txtFirstName.Text = ds.Tables("whatever").Rows(0).Item(1)
```

```
'txtSurname.Text = ds.Tables("whatever").Rows(0).Item(2)
```

```
' MaxRows = ds.Tables("AddressBook").Rows.Count
```

```
end sub
```

Updating a Record:

```
Dim cb As New OleDb.OleDbCommandBuilder(da)
```

```
ds.Tables("AddressBook").Rows(inc).Item(1) = txtFirstName.Text
```

```
ds.Tables("AddressBook").Rows(inc).Item(2) = txtSurname.Text
```

```
da.Update(ds, "AddressBook")
```

```
MsgBox("Data updated")
```

Add a New Record

```
Dim cb As New OleDb.OleDbCommandBuilder(da)
```

```
Dim dsNewRow As DataRow
```

```
dsNewRow = ds.Tables("AddressBook").NewRow()
```

```
dsNewRow.Item("FirstName") = txtFirstName.Text
```

```
dsNewRow.Item("Surname") = txtSurname.Text
```

```
ds.Tables("AddressBook").Rows.Add(dsNewRow)
```

```
da.Update(ds, "AddressBook")
```

```
MsgBox("New Record added to the Database")
```

Deleting Records from a Database:

```
Dim cb As New OleDb.OleDbCommandBuilder(da)
```

```
ds.Tables("AddressBook").Rows(inc).Delete() ' inc is an integer variable
```

```
da.Update(ds, "AddressBook")
```

tip: getting a folder path:

```
Dim fldr As String
```

```
fldr = Environment.GetFolderPath( Environment.SpecialFolder.MyDocuments ) &  
"/AddressBook.mdb"
```

## ASP.NET

Active Server Pages (ASP) - exactly like vb.net (see also sql chapter) but instead of a form you have web pages, and other controls are available. to publish an asp.net web site ftp the .aspx files and any necessary support files (path where you save as) (see publish your site in html chapter)

a server that supports asp.net has Internet Information Server (IIS) installed (most do)  
operating systems that support ASP are: Windows 95, 98, NT, 2000, 2003, XP sp3 Pro, windows 7.

A search and install asp.net (search asp.net download or download Visual Web Developer 2010 Express)

B checking if IIS on Windows XP Professional:(optional (it installs with asp.net))

- 1 Open your control panel. Click Start -> then Settings -> then Control Panel
- 2 Select and Open "Add or Remove Programs"
- 3 On the left column of the popup window select "Add or Remove Windows Components"
- 4 Scroll down until you see Internet Information Services (IIS)
- 5 If IIS is not checked then check it, otherwise you already have IIS installed on your computer
- 6 Click Next and follow the on screen instructions from the installer
- 7 When it has completed, open up Internet Explorer and type in http://localhost
- 8 If IIS was install appropriately you should be taken to the welcome screen  
http://localhost/localstart.asp

1 when you start a new web site select the visual basic language or c#

2 datagrid uses an auto wizard to display and work with access or sql databasses

3 hyperlink url property : set to nameOfWebPage.aspx to navigate to a webpage you added in your site

How to Deploy ASP. Net Websites on IIS 7.0:

From Visual Studio, publish your Web application

Copy the published application folder to "C:\intepub\wwwroot" [default] folder

From start, RUN - > inetmgr -> OK

right click testweb and then Click on "ConvertToApplication"

## HTML (build a website)

to make a website from scratch:

- 1 create a new folder (in here you put all your files, and webpages)
- 2 create a new text file change its ending to html or htm
- 3 right click the htm file open with notepad or wordpad (if your on windown), or typepad(for mac os)
- 4 skelleton of html code:

```
<html>  
<head>
```



```
</li>item 2</li>
</ol></td></tr>
<tr><td>paste youtube embedded here</td></tr>
<tr><td>test1</td><td>test2</td></tr>
</table>
  videos:
<ol>
  <li>item 1</li>
  <li>item 2</li>
</ol>
</body>
```

</html>

5 save (with ctrl s) close the notepad open your html site.

html code:

tags : open tag <html></html> close tags that's the format for all the html tags in them you put text and stuff

in the <html></html> tags you put <header></header> and <body></body> tags outside of header tag as

see number 4 above

<title>your site title</title> goes in header tags.

in body tags goes your contents (pictures, links, text). to add text you type it inside body tags and you can

surround some text in special tags to change its appearance.

attributes: in the tags can be added (to the first tag) attributes for the contents in the tag.

some characters in your text can be input according to the following:(Entities)

& - &amp;  
cent sign - &cent;  
copyright symbol - &copy; or &#169;  
degree sign - &deg;  
greater than - &gt;  
lower than - &lt;  
space - &nbsp;  
registered trade mark - &#174;  
trademark - &#153;

tags list exempld:

1 <p> - opening paragraph tag

Element Content - paragraph words

</p> - closing tag

<p align="justify">some text</p> (align is an attribute) align = "center" or "right"

2 list :

<h4 align="center">Goals</h4> (headline) also h1 to h6 h1 is biggest.

attribute : align = "left" or "center" or "right"

<ol> (numbered list, use ul (not ol)for unnumbered) can use <ol start ="4"> to start count from 4

<li>stuff1</li>

<li>stuff2</li>

</ol>

(<ol type="x"> x replace with "a", "A", "i" or "I" to change counters)

(<ul type="square"> or <ul type="disc"> or <ul type="circle">)

3 definition:

<dl>

<dt><b>chizu</b></dt>

<dd>japanese word for cheese.</dd>

<dt><b>jidosha</b></dt>

<dd>japanese word for car.</dd>

</dt>

4 line break (enter new line):

<br />

5 horizontal line : <hr />

<b>Bold Text</b>

<em>Emphasized Text</em>

<strong>Strong Text</strong></p>

<i>Italic Text</i>

<sup>superscripted Text</sup>

<del>struckthrough Text</del>

<code>Computer Code Text</code>

6 <font size="5">Here is a size 5 font</font>

<font color="#990000">This text is hexcolor #990000</font>

(This text is hexcolor #990000)

<font color="red">This text is red</font>

Attributes:

size= "Num. Value 1-7" Size of your text 7 is biggest

color= "rgb,name,or hexadecimal" Change font color

face= "name of font" Change the font type

7 HTML - Hypertext Reference (href):

<a href="http://www.espn.com/" target="\_blank" >ESPN Home</a>

<a href="http://www.yahoo.com/" target="\_blank" >Yahoo Home</a>

(the text between the tags will be shown)

Internal - href="#anchorname" (link to a word on your site) and add :

<A name="anchorname">you get here</A>

Local - href=" ../pics/picturefile.jpg" (link to a file in a folder in the folder of your site (to be ftb via your domain url

and stored in your webhost)

Global - href="url" (link to a site)

target="\_blank" Opens new page in a new browser window

\_self" Loads the new page in current window

\_parent" Loads new page into a frame that is superior to where the link lies

\_top" Loads new page into the current browser window, cancelling all frames

anchoring: step1:

<h2>HTML Links and Anchors<a name="top"></a></h2>

<h2>HTML Text Links<a name="text"></a></h2>

<h2>HTML Email<a name="email"></a></h2>

step2:

<a href="#top">Go to the Top</a>

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`<a href="#text">Learn about Text Links</a>`

`<a href="#email">Learn about Email Links</a>`

email link: `<a href="mailto:x@yahoo.com?subject=Feedback" >Email@personx.com</a>`

email link with filling email body:

`<a href="mailto:email@yahoo.com?subject=Feedback&body=nice">`

`Email@personx.com</a>`

download link:

`<a href="http://www.sitename.com/pics/htmlIT/something.zip">Text Document</a>`

href = "location of file (url of another site or location in the folder containing the file compared to your location)

href = images/images.html (link to webpage images in folder images)

href = "images/pic1.png" link to a picture

8 images:

``

src="anime da.gif" picture file resides in same directory(folder) as .html file

src="../anime da.gif" picture file resides in previous directory as .html file

src="../pics/anime da.gif" picture file resides in the pic directory in a previous directory as .html file

attributes:

alt="anime" (text to be displayed when hovering with mouse over picture)

``

align="right" or "left" or "center"

Images as Links:

`<a href="http://www.sitename.com/">`

``

`</a>`

small picture link to complete big picture:

`<a href="anime da.gif">`

``

`</a>`

image link:

`<a href="http://www.espn.com" target="_blank">  </a>`

attributes : border="0"

9 embed music:

`<embed src="beethoven.mid" width="360" height="165" />` (file beethoven.mid is in the site folder)

Embed Attributes - Related to Functionality:

autostart - choose if the media file will start automatically

loop - sets the media file to repeat or not

volume - set the volume of the media file. The range is 0-100.

`<embed src="beethoven.mid" autostart="false" loop="false"`

`volume="60" />`

10 embed video:

`<embed src="siteurl/files/html/htmlexample.mpeg"`

`autostart="false" />`

also:

`<a href="http:siteurl/pics/flash/motiontween1easy.swf">`

`motiontween1easy.swf</a>`

Flash movies (.swf), AVI's (.avi), and MOV's (.mov) , .mpeg files file types are supported by the embed tag. you could

use a new webbrowser so it will work such as maxthone 2.5.13 or higher

HTML - Embed Attributes:

autostart - controls the media's ability to start without prompting. Values are true or false.

hidden - controls whether or not the play/stop/pause embedded object is hidden or not. Values are

true or false. (Hide your embeded media if you just want background noise).

loop - A true value means the media will continuously loop, false means no looping.

playcount - Setting a playcount means the media will repeat itself x number of times instead of continuously as with the loop attribute above. (playcount="2" will repeat the video twice).

volume - set a numeric value for the loudness of your media. (0-100).

also you can get the embed code of a video of youtube or google and paste it on your site

```
11 <table border="1"> (table)
<tr><td>Row 1 Cell 1</td><td>Row 1 Cell 2</td></tr>
<tr><td>Row 2 Cell 1</td><td>Row 2 Cell 2</td></tr>
</table>
```

for this code:

```
<table border="1" cellspacing="10"
 bgcolor="rgb(0,255,0)">
<tr>
<th>Column 1</th>
<th>Column 2</th>
</tr>
<tr><td>Row 1 Cell 1</td><td>Row 1 Cell 2</td></tr>
<tr><td>Row 2 Cell 1</td><td>Row 2 Cell 2</td></tr>
</table>
```

in tr the text is bold and you see table attributes

12 background color:

```
<body bgcolor="Silver">
<p>We set the background...</p>
</body>
```

bgcolor for table:

```
<table>
<tr bgcolor="#FFFF00"><td>This Row is Yellow!</td></tr>
<tr bgcolor="#AAAAAA"><td>This Row is Gray!</td></tr>
<tr bgcolor="#FFFF00"><td>This Row is Yellow!</td></tr>
<tr bgcolor="#AAAAAA"><td>This Row is Gray!</td></tr>
<tr bgcolor="#FFFF00"><td>This Row is Yellow!</td></tr>
<tr bgcolor="#AAAAAA"><td>This Row is Gray!</td></tr>
</table>
```

13 background picture:

add attribute: background="url" (of picture) or picture file location, to body or table tag

14 comment (does nothing but the site won't show it

```
<!--buy milk -->
```

14.2 <p>This text is <del>scratched</del> out!</p>

14.3 iframe: embed a webpage in another webpage:

```
<html>
<head>
</head>
<frameset cols="30%,*">
<frame src="menu.html">
<frame src="content.html">
</frameset>
```

</html>

frameset - The parent tag that defines the characteristics of this frames page.

Individual frames are defined inside it.

frameset cols="#%, \*"- Cols(columns) defines the width that each frame will have.

In the above example we chose the menu (the 1st column) to be 30% of the total page and used a "\*", which means the content (the 2nd column) will use the remaining width for itself.

frame src="" -The location of the web page to load into the frame.

```
<html><head></head>
```

```
<frameset rows="20%,*">
```

```
<frame src="title.html">
```

```
<frameset cols="30%,*">
```

```
<frame src="menu.html">
```

```
<frame src="content.html">
```

```
</frameset>
```

```
</html>
```

```
<html><head></head>
```

```
<frameset border="0" frameborder="0" framespacing="0" rows="20%,*">
```

```
<frame src="title.html">
```

```
<frameset border="0" frameborder="0" framespacing="0" cols="30%,*">
```

```
<frame src="menu.html">
```

```
<frame src="content.html">
```

```
</frameset>
```

```
</html>
```

frameborder="#" - A zero value shows no "window" border.

border="#" - Modifies the border width, used by Netscape.

framespacing="#" -Modifies the border width, used by Internet Explorer.

15 meta here in contents attribute you put tags key words to help search engines find and rank your site:

```
<head>
```

```
<meta name="keywords" content="HTML, XHTML, CSS, tutorials, site" />
```

```
</head>
```

name defines what type of meta tag being used. Note that the keywords are separated by commas.

```
<head> (description meta tag
```

```
<meta name="description" content="site contains webmaster tutorials." />
```

```
</head>
```

16 font:

```
<p>
```

```
<font size="5">Here is a size 5 font</font>
```

```
</p>
```

```
<font color="#990000">This text is hexcolor #990000</font>
```

```
<font color="red">This text is red</font>
```

```
<p>
```

```
<font face="Bookman Old Style, Book Antiqua, Garamond">This paragraph  
has had its font...</font>
```

```
</p>
```

Attributes:

size= "Num. Value 1-7" Size of your text, 7 is biggest

color= "rgb,name,or hexadecimal" Change font color

face= "name of font" Change the font type

First Letter Style:

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<p><font size="7" face="Georgia, Arial" color="maroon">C</font>ustomize  
your font to achieve a desired look.</p>

17 Favicon - an icon for your site(an icon ends with .ico)  
download an icon and save it in your sites root directory(main folder)  
to your webpages add:

```
<head>  
<link rel="shortcut icon"  
href="http://www.domain.com/iconfile.ico">  
</head>
```

to create a favicon(instead of download):  
using an icon editor:

PixelToolbox from AxiomX, the icon image is 16x16 pixel size(if you make it from an existing image  
file (like jpeg)).

18 add site to favorites link:

```
<script language="JavaScript" type="text/javascript">  
function addBookmark()  
{  
if (document.all) {  
window.external.AddFavorite(location.href, document.title);  
}else if (window.sidebar){  
window.sidebar.addPanel(document.title, location.href, "");}  
}  
</script>  
<a href="JavaScript:addBookmark();"   
onclick="addBookmark();">Add to your favorites</a>
```

19 add a forum:

you can open a free forum for example at: <http://www.ace.st/en/>  
and add the forums link to your site.

20 display pdf(ebook):

assuming you added the pdf to your site folder(on your pc or in the webhost via ftp)  
<a target="\_blank" href="NAME OF FILE.pdf" title="">NAME OF LINK AS YOU WANT IT TO  
APPEAR </a>

to embed the pdf in a webpage:

```
<embed src="NAME OF FILE.pdf" width="500" height="375">.
```

21 add current date using vbScript: (visual basic script)

```
<script type="text/vbscript">  
Dim myDateString  
myDateString = Date()  
document.write(myDateString)  
</script>
```

22 EMBED A CHAT:

a chat with webcam, picture sharing and voice:  
[www.oohya.net](http://www.oohya.net)

example:

```
<br><a
```

battle programming 2011 3rd edition.txt

[Click Here to embed OohYa Chat in your profile.](http://www.oohya.net/index.php?option=com_content&task=view&id=85&Itemid=1)

```
<br><p><object type="application/x-shockwave-flash" allowScriptAccess="always"
allowNetworking="all" height="425" width="525"
data="http://www.oohya.net/123flashchat/client/123flashchat.swf?init_root=http://www.oohya.net/123
flashchat/client/">
<param name="allowScriptAccess" value="always" />
<param name="allowNetworking" value="all" />
<param name="movie"
value="http://www.oohya.net/123flashchat/client/123flashchat.swf?init_root=http://www.oohya.net/12
3flashchat/client/" />
</object><br />
<a href="http://www.oohya.net">Free Chat Rooms</a>
```

other chat providers (use a search engine to look them up):

chatango.com

99Chats, TinyChat, Meebo Chat, Chat Maker, Yaplet, Gabbly

23 web show :

find a live streaming provider and embed(</embed>) or add its link:

A stickam.com , in the site in your profile: embed your stickam player on your web site

<http://www.ustream.tv/> (sign up ...), login, broadcast now, you can get the embed link from your profile page

(live embed) or from bellow the video stream, bellow share this ( embed stream)

click on the "Embed" tab. From the "Embed the Live Video anywhere!" text field, and click on "Copy Embed"

(you can also embed Chat or Social Stream modules) and paste this into your HTML code.

B livestream.com

24 publish your site:(write down all user passwords you set) see 24 to publish for free

A get a disposable credit card like visa's from the post office

B buy a domain (search buy a domain(url)) you can use <http://www.websitepalace.com/> for example also: Register.com and NetworkSolutions.com

C buy space in a webhost(most offer to buy a domin) you can use <http://www.websitepalace.com/> for example

the webhost can offer you services like add a forum or add ssl security

D ftp your site to your domain:

internet explorer(IE), tools, internet options, advanced tab, enable ftb view outside IE is checked

create a desttop shortcut type:

explorer.exe ftp://username:password@servername (webhost is server name or your website url) the password

in the webhost and also called credentials

or open ftp://siteurl and enter your user and password(might need to: file,login)

sometimes you can ftp via your webhost

or use filezilla (ftp software)

25 host your site on your own pc(for free):

optional : ask your isp(internet service provider) for a static(not changing ipaddress)

option A:

control panel, add or remove programs, add/remove windows components, internet information services(iis) -

checked, next, new window asks you to insert windows cd, wait till install wizard will have completed.

mycomputer, c:, inetpub, wwwroot, put site files folders in wwwroot folder

start, control panel, administrative tools, internet information services, hpc, websites, default website -

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right click, properties, documents, add yourSiteFile.html, ok

to get your ip adress: go to ipchicken.com or start, run, cmd, ipconfig (look at 2nd ip Address)

connect to your site by: entering your ip adress to enter your site from anywhere (if your pc is on) or on your pc type the url(in the webbrowser) localhost. to get a name in addition to your ip address(a site domain

name): go to no-ip.com or search for: dns for static ip

option B:

Download Wampserver, type localhost for the server name, 13To use Wampserver, create a folder in the

www directory and save the files for your site in that folder.

14The address for your site will be: yourstaticipaddress/yourfolderinthewwwdirectory/. Except if you signed

up for a static DNS service (see end of option B)

WARNING: update windows and install an antivirus when running hosting on your pc. also you want to have fast dsl(internet connection)

26 Web Statistics Software:(to check how popular your site is)

Analog Website: [www.analog.cx](http://www.analog.cx)

AWStats Website: [awstats.sourceforge.net](http://awstats.sourceforge.net)

Google Analytics Website: [www.google.com/analytics](http://www.google.com/analytics)

Webalizer Website: [www.mrunix.net/webalizer](http://www.mrunix.net/webalizer)

VisitorVille Website: [www.visitorville.com](http://www.visitorville.com)

now you can delete update downlod and add files by dragging into and out off the ftp

27 usualy homepage.htm opens for your domain url]

CSS (graphics for html)

Cascading Style Sheets (CSS) (adding simple graphics to your html code):

"HTML tag" { "CSS Property" : "Value" ; }

"Property" (html attribute) is the CSS element you wish to manipulate

"VALUE" represents the value of the specified property.

1 internal css:

```
<html>
```

```
<head>
```

```
<style type="text/css">
```

```
p {color: white; }
```

```
body {background-color: black; }
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<p>White text on a black background!</p>
```

```
</body>
```

```
</html>
```

2 External CSS (a file that contains only CSS code and is saved with a ".css" file extension):

in notepad type:

```
body{ background-color: gray;}
```

```
p { color: blue; }
```

```
h3{ color: white; }
```

save as fileName.css (in the same folder of your .html file)

in the html:

```
<html>
```

```
<head>
```

```
<link rel="stylesheet" type="text/css" href="fileName.css" />
```

```
</head>
```

```
<body>
```

```
<h3> A White Header </h3>
```

```
<p> This paragraph has a blue font.
```

```
The background color of this page is gray because
```

```
we changed it with CSS! </p>
```

```
</body>
```

```
</html>
```

3 inline css (can override other two types of css):

```
<p style="background: blue; color: white;">A new background and font color with inline CSS</p>
```

4 css classes:

css code:

```
p.first{ color: blue; }
```

```
p.second{ color: red; }
```

html code:

```
<p class="first">This is a paragraph that uses the p.first CSS code!</p>
```

```
<p class="second">This is a paragraph that uses the p.second CSS code!</p>
```

example 2: css code:

```
p{ color: red; font-size: 20px; }
```

```
p.test1{ color: blue; }
```

```
p.test2{ font-size: 12px; }
```

html code: (in body (webpage contents(text and pictures) area))

```
<p class="test1">This is a paragraph that uses the p.test1 CSS code!</p>
```

```
<p class="test2">This is a paragraph that uses the p.test2 CSS code!</p>
```

5 css background: (text background)

```
p { background-image: url(smallPic.jpg); }
```

```
h4{ background-image: url(picture url here sould end with picture formate like .jpg); }
```

example 2:

```
p {
```

```
    background-image: url(smallPic.jpg);
```

```
    background-repeat: repeat; } (horizontal)
```

```
h4 {
```

```
    background-image: url(smallPic.jpg);
```

```
    background-repeat: repeat-y;} (vertical)
```

```
ol {
```

```
    background-image: url(smallPic.jpg);
```

```
    background-repeat: repeat-x;} (horizontal short)
```

```
ul {
```

```
    background-image: url(smallPic.jpg);
```

```
    background-repeat: no-repeat;} (vertical short)
```

#### 6 CSS Fixed Background Image( with scrolling):

```
textarea.noScroll {
    background-image: url(smallPic.jpg);
    background-attachment: fixed;
}
textarea {
    background-image: url(smallPic.jpg);
    background-attachment: scroll;}
```

#### 6 CSS Gradient(fading) Background:

```
p {
    background-image: url(http://www.example.com/gradient.gif);
    background-repeat: repeat-x;
}
```

#### 7 css font:

```
h4 { font-family: sans-serif; }
h5 { font-family: serif; }
h6 { font-family: arial; }
size:
p { font-size: 120%; }
ol{ font-size: 10px; }
ul{ font-size: x-large; }
ul{ font-weight: bolder; } (bold text)
decoration:
h4{ text-decoration: line-through; }
h5{ text-decoration: overline; }
h6{ text-decoration: underline; }
a { text-decoration: none; }
align:
p { text-align: right; }
h5{ text-align: justify; }
text case:
p { text-transform: capitalize; }
h5{ text-transform: uppercase; }
h6{ text-transform: lowercase; }
CSS White Space ( until </br> long text will be horizontally scrolled)
p { white-space: nowrap; }
CSS Word Spacing
p { word-spacing: 10px; }
p { letter-spacing: 3px; } (CSS Letter Spacing)
```

#### 8 CSS Padding (framing the text):

```
p {padding: 15px; border: 1px solid black; }
h5{padding: 0px; border: 1px solid red;}
```

#### 9 css border:

```
p.solid {border-style: solid; }
p.double {border-style: double; }
p.groove {border-style: groove; }
p.dotted {border-style: dotted; }
p.dashed {border-style: dashed; }
p.inset {border-style: inset; }
```

```
p.outset {border-style: outset; }
p.ridge {border-style: ridge; }
p.hidden {border-style: hidden; }
example 2: border table:
table { border-width: 7px;
border-style: outset; }
td { border-width: medium;
border-style: outset; }
p { border-width: thick;}
example 3
table { border-color: rgb( 100, 100, 255);
border-style: dashed; }
```

```
td { border-color: #FFBD32;
border-style: ridge; }
```

```
p { border-color: blue;
border-style: solid; }
```

```
border-style: solid; }
```

#### 10 CSS List Style Type:

```
ol { list-style-type: upper-roman; }
ul { list-style-type: circle; }
list with images:
ul { list-style-image: url("listArrow.gif"); }
ol { list-style-image: url("listArrow2.gif"); }
```

#### 11 CSS Links ( Pseudo-classes )

css code:

```
a:link { color: red; }
a:visited { color: red; }
a:hover { color: blue; } (also a:active for while clicking a link)
```

html code:

```
<a href="">This is a special CSS Link</a>!
```

css fat example:

```
a:hover{
color: blue;
background-color: red;
font-size: 27px;
border: 10px inset blue;
font-family: serif;
text-transform: uppercase;
text-decoration: line-through;
letter-spacing: 3px;
word-spacing: 6px;
font-weight: normal;}
```

#### 12 CSS Cursor Code:

```
p { cursor: wait }
h4 { cursor: help }
h5 { cursor: crosshair }
```

#### 13 search for: CSS Reference

to get a list of all css attributes and values

## VBULLETIN CODES

1 color : [COLOR="blue"]text[/COLOR]

2 list :

][LIST=1]

[\*]That was by MC Hawking. A legend in the making (and you have a good taste in music LordOrwell ;)

[\*]That... thing... isn't going to dominate anything. I'd rather look and listen to Justin Beiber for christ sakes.

[/LIST]

3 double click thread title to rename

## WORKSHOP SAFETY

Eye protection

Eye protectors include safety spectacles, eyeshields, goggles, welding filters, face shields and hoods, barrier creams (like vaselin)

Head protection : industrial safety helmets, caps

Foot protection :

foundry boots with steel toe caps, which are heat resistant and designed to keep out molten metal  
wellington boots to protect against water (for welding), and anti-static footwear

Hand protection : Gloves, Barrier creams (like vaselin), electricly isolated gloves

Protective clothing : high visibility, and leather

ear protection for noise

never : clean a running machine or use compressed air to clean it

keep fire extinguisher at hand

Surface grinding : a rotating stone is used to finish grind(or sharpen) the material surface

chipest easiest tools : japanese(exacto) knife, chisel, hand drill

soldering : the melting of a low melting point metal to join 2 others (alluminum melts at 660C)

welding : connect metal to melt to ground, touch with 2nd metal thats connected to high voltage like battery

## CNC SETUP AND OPERATION

setup time: last part of prev production, till first good part of current production.  
operator cycle time: full production time div number of workpieces.

#### SETUP:

##### 1teardown:

- 1.1 clean swarf, (if needed) remove holding devices(clamps)
- 1.2 remove unneeded cutting tools
- 1.31 power on control panel, power on machine(to power off first machine then control panel)
- 1.312 align new clamps x,y axis to spindle x,y with dial indicator remainind constant degree
- 1.32 delete previous cnc program

##### 2 assemble:

- 2.1 mount holding device (clamp) and align with dial indicator
- 2.2 assign program zero:
  - place edge finder on spindle to get x y of zero point according to work sheet.
  - get z by placing 3inch block on workpiece touch spindle nose to block, add 3 inches to current z
- 2.3 cutting tools assembly & measurements (length, radius) for tool offsets
- 2.32 before first run increase tool length (by 0.010) for tools to do everything but holes (like pockets), same goes for radius.
- 2.4 enter offsets, load cnc program with dnc(distributive numerical control)
- 2.5 varify cnc program and save:
  - with proven programs go to cycle start
  - rapid traverse override - slows program at varification
  - at first run : activate without workpiece
  - at second run : activate single step and dry run, then press cycle start after each tool (m01)
  - at 3rd run: activate single step, rapid override 10%
  - cycle start button to start or resume.
  - make shure the spindle spins BEFORE contacting the work piece, keep finger ready on feed hold button.
  - if hear ominouse sound you sould use panic button.
  - the reset key: undo program changes after input, stops process, negates alarm
  - measurments 1st piece now or every 30 pieces, adjust offsets see get tolerance.

#### MAINTAINING PRODUCTION:

\*from sheet talk to setup person

- 1 load workpiece (metal casting)
- 2 start cycle, watch out for tool wea/break

3 replace dull tools

4enter new offsets

5 lub machine

#### GET TOLARANCE:

$x = +n1, -n2$

tolerance band =  $(n1 + |N2|)/2$

mean value =  $x + n1 - (n1 + |N2|)/2$

format  $x = +n1$  is  $x = +n1, -n1$

measure completed workpiece:

if sizes are bigger than corresponding mean value : increase tools offset

if sizes are smaller than corresponding mean value : decrease tools offset

cheats :

MDI, gcodes to do stuff:

S speed of spindle(drill), example S 1800

M03- clockwise spin

M04- ccw spin  
M05- spindle off  
M07- mist coolant on  
M08- coolant on  
M09 coolant off  
T15- ready tool 15  
m06-tool change  
M60 auto pallet change  
check your machine manual for its unique codes

metal also come in sheets which are simple and cheap to cut, drill and fold using any basic drills or saws.

## A METAL MELTING FURNACE

- 1 line (metal drum) with a layer of 7 cm refractory concrete (you can place this in a hole in the ground)
- 2 the drum will have an opening at its top and a smaller opening in the side (to be pumped with air (from a fan))
- 3 place the metal and the coal in the drum (if you use propane its to be pumped in from another hole (in which case The torch hole should fit exactly))
- 4 the user can observe the melting from the top hole but must wear a face shield, the brighter the hotter the metal,  
light yellow = 1500 C / 2730 F
- 5 the metal will be placed in a mold before melting

Max. temperature (inside the crucible): 1300 deg C (=2500 F) within 15 mins = 300 grams copper.

### warnings

Dark welding goggles when temps above 1300 C are used.

Oven gloves.

Large flat iron pan to put the mold on  
have some cold water close by

When using metal molds, preheat them to above 100 deg C to remove any moisture

When using sand molds, the sand should not be too wet

wear shoes which are easy to kick off

Always wear an eye, or better a face, protection mask during pouring the metal or adding metal into the crucible

Avoid use of cadmium, lead or mercury in your alloys

## PROPANE

to make propane heat petroleum but not enough to burn it.

the gas is compressed in cold temperatures with a compressor (a bunch of fans in a cylinder, in an air tight system of tubes)

## OSCILLATOR

Crystal oscillators are oscillators where the primary frequency determining element is a quartz crystal

an oscillator lets out current according to its frequency controlled by its capacitor and inductor sizes :  
a capacitor is parallel linked in a circuit to 2 inductors, next the base of a transistor connects to one inductor

and the collector of the transistor connects between the two inductors, the main transistor circuit is open  
and pass current according to the frequency.

the capacitor parallel links to a battery or battery + quartz crystal combo.

by letting 2 or more oscillators open bases of transistors that connect together the main circuit of those transistors  
will only be open according to the combo of frequencies: 10hz and 6hz will open at 30hz, 6hz and 4hz will  
open every 12hz, therefore the frequency of a signal combines with that of an oscillator to open a specific circuit  
the signal can also be audio current (that is how a modern phone works).

OVERLORD SKILL : robotics wave punch of destruction  
SO IT HAS COME TO THIS YOU NEED A CODE FOR ROBOTICS BUT ITS NOT FOUND ONLINE  
THIS IS A SPECIAL TECHNIQUE :

input : wire the keyboard

output :

1 wire speaker wires in parallel to motor or oscillator output is controlled by sound frequency or volume

2 connect the screen to lightsensors and use pictureboxes

## CIRCUIT BOARD ETCHING

1 use laser printer to print a black and transparent image of the cb(circuit board)

2 use photo frame, get a led sensitive board and pc board etching solution, open board in red light room,

3 put cb board in photo frame under board image close frame light frame with uv light 13wat cfl bulb for 8 minutes

4 mix positive pc board developing concentrate with water in ratio 1:10 repeatedly

5 put board in fluid and swish, when all shiny rinse in cold water

6 mix ferric chloride(etching fluid) with water ratio 1:1 (avoid skin contact and ventilate area)

7 swish board in mix every now and then for 20 minutes

8 use mini drill press stand and .8 millimeter bit(wear mask and goggles against swarf) to drill holes

9 use nail polish remover to wipe board

## NMOS TRANSISTORS

nmos transistor: turns on by gate voltage

1 <p-type> wafer 100 orientation

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- 2 put in furnace and pump steam in, coat to 5000-6000 angstrom (check with color chart)
- 3 put vnyel barrier with 3 close holes on wafer(holes should be as close as possible), use hf acid to etch wafer(glass) in the holes to check:  
water the wafer the water sticks to the oxide(steamed) areas only
- 4 spin phosphorus silicate film on wafer(on pc fan), put in kiln at 1000 celcius 5 minutes, take out of furnace  
let it cool 15-25 minutes
- 5 etch entire wafer surface with acid (hcl or hf)
- 6 furnace 15- 25 minutes with steam pumped
- 7 use vnyil mask and hf acid to etch gate(middle of 3 holes) area, put in furnace 1000 c no steam 15 minutes  
it(middle hole) sould get to dark red pink color
- 8 cut another mask with 2 holes not with middle gate hole etch holes, put conductive epoxy on vnyil mask holes with wires  
then put wire with epoxy on gate hole
- 9 connect substrate of wafer(pur glass area) to ground

in jfet transistors the gate is doped with boron, when applying the smallest current to the jfet source and gate  
output will flow via the drain.

## FLASH MEMORY

works as a mosfet transistor, except the gate has layer of oxide on it to trap electrons between the glass and the oxide (in the FloatGate).the oxide is connected to a current from above(ControlGate or word line). if there are trapped electrons under FG the bit lines output will be higher(bitline input is source(area of glass doped with phosphor, bitline output: doped area after FG)

- 2 grids on the flash:
- 1: x,y of bitline (FG)
  - 2: x,y of wordline(CG)

therefore if  $x1=x2=y2=y1=100$ (pins in to the chip) for example:  
transistors(bits) =  $100*100$ (sector)\* $100*100$ (per sector)

NOR flash:

1 part of doped area connected to ground, 2nd part to charge.

Programming:write:

>5v at CG

DELETE:

a large voltage of the opposite polarity is applied between the CG and source(doped area on glass(silicon))  
(pulling the electrons off the FG )

## SAND TO CHIP

1 circuit diagrams

2 quartz sand, melt, clean room, hermetically sealed container,

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3 silicon disk is spin coated with a photosensitive resist, uv light printed designs to wafer  
exposed parts of resist are removed by developing fluid  
4 exposed parts are etched(glass etching)  
5 ion implementation, doped atoms are shot at the wafer, then heated  
6 water to clean wafer  
7 barrier on wafer, copper pured on wafer, ground coppered wafer to the edges of tranches (to  
insulate  
each inter connect from the others)  
8 tin silver pallets attached to frame, saw wafer to squares

## PHOTO ELECTRIC CELL

2 different metals are put in a vacuum tube, each metal connects to the - or + of a battery, when light  
hits  
there will be power flow in the circuit.

## FOX HOLE RADIO

connect: a coil to safety pin to sharpened pencil to a preheated razor blade in arrow, connect the  
circuit  
to the ground, connect an antenna to the circuit, connect earphones to the circuit.

to increase earphones output: connect transistor source to the circuit, connect the base and drain to  
a battery  
and to earphones in a raw.

## GLASS

45% white sand + 50% lime + 5% sodiom carbonate heated at 1500 celcius degrees

## STEEL

mix 2% coke, preheated iron(from ore its black grey color) heat at 2800 c degrees

magnets: iron + neodium + boron

## ALCOHOL:

mix yeast(rise, bread Celsius, white or barley), water, sugar, and give it 2-3 months to sit.  
heating the alcohol with steam will make it more concentrated(it might explode).

## THERMITE:

mix aluminium with rust, when you burn it, it will reach 2500 Celsius degrees

#### LEATHER:

deskin animal, let the leather dry for 6 months, mix the leather with brain liquid, smoke leather.

#### PAPER:

Fibres from wood or plants is either ground to its individual constituents or treated chemically, by digestion with acidic or basic liquors. THEe fibres are beaten (refined) .

the fibres are dewatered on a "sieve", then the sheets are pressed at least 3 times, then dried

ink can be made from crushed bugs.

#### CEMENT:

Cement is a fine, soft, powdery-type substance. It is made from a mixture of elements that are found in natural materials such as limestone, clay, sand and/or shale. When cement is mixed with water, it can bind sand and gravel into a hard, solid mass called concrete.

Cement can be purchased from most building supply stores in bags

Four essential elements are needed to make cement. They are Calcium, Silicon, Aluminum and Iron.

Calcium (which is the main ingredient) can be obtained from limestone, whereas silicon can be obtained from sand and/or clay. Aluminum and iron can be extracted from bauxite and iron ore, and only small amounts are needed.

Cement mixed with water, sand and gravel, forms concrete.

Cement mixed with water and sand, forms cement plaster.

Cement mixed with water, lime and sand, forms mortar.

Cement should be stored in a dry area.

how cement can be made :

1.) Limestone is taken from a quarry. Smaller quantities of sand and clay are also needed. Limestone, sand and clay contain the four essential elements required to make cement. The four essential elements are calcium, silicon, aluminum and iron.

2.) Boulder-size limestone rocks are transported from the quarry to the cement plant and fed into a crusher which crushes the boulders into marble-size pieces.

- 3.) The limestone pieces then go through a blender where they are added to the other raw materials.
- 4.) The raw materials are ground to a powder. This is sometimes done with rollers that crush the materials against a rotating platform.
- 5.) Everything then goes into a huge, extremely hot, rotating furnace to undergo a process called "sintering". Sintering means: to cause to become a coherent mass by heating without melting. In other words, the raw materials become sort of partially molten. The raw materials reach about 2700° F (1480°C) inside the furnace. This causes chemical and physical changes to the raw materials and they come out of the furnace as large, glassy, red-hot cinders called "clinker".
- 6.) The clinker is cooled and ground into a fine gray powder. A small amount of gypsum is also added during the final grinding. It is now the finished product - Portland cement.

The cement is then stored in silos (large holding tanks) where it awaits distribution. The cement is usually shipped in bulk in purpose-made trucks, by rail or even by barge or ship.

## HOW TO MAKE A HUMAN SIZED DOLL

can be used as decoy

fill cloth (like tites) with doll fiber or cotton, metal wood or plastic to simulate bones, add a hot watter filled bottle where possible inside, finally add a big doll head (and drill the mouth open).

## HOLOGRAM

an image reflected from a light source at 45 degrees on a vertical glass in a dark area

## MICROSOFT OFFICE 2003 / 2007/2010 EXCEL

excel is a buntch of cells the user puts (types) and saves data in (charts), it also offers automatic calculations.

excel files end with .xls (excel 2003) or .xlsx (excel 2007 and up)

cheat list:

1 automaic month typer: type a month in a cell, drag the cells from bottom right point to the right, each cell is auto filled with the next month. if you copy and drag 2 cells the rest of the dragged into cells autofill according to the interval betwin the 2 dragged cells, same goes for numbers, time, days...

2 get sum : select cells that connect to a raw or colomn of numbers and click the sigma (sum) button from the menu strip or press alt + =

3 insert a row: click row number, edit or right click, insert row, all.

4 get graph : select chart with data (cells with typed numbers and words surrounding them), click charts from menu strip.  
for excel 2007 and up alt + f1 will add a chart.

5 show currency: select cells with numbers, format, cells, select currency.

6 =rept(element,times) for example =rept(6,3) in a cell will appear as 666. for text: =rept("hello",2) also =rept(a1, 5) to repeat all data in cell a1. also =rept("X", click a cell) the number in the cell is passed.

7 EXTREME : fx button on the menu strip shows all cheats of excel, how to use them or chose to activate them.  
in excel 2007 use the formula tab. all formulas begin with = like: =a1+a3 (typed in any cell)

8 f4 - make cell data unautomatically changeable.

9 name a table (chart) - select the table and name it in the textbox above the letter A column, enter.

10 f12 - save file dialog.

11 adjust column size to fit longest text cell in the column : double click betwin the column and next column letter.

12 calculation : =a1\*f2 (example of formula to be typed in a cell)

13 enter + ctrl - enter data stay on cell (+ isn't to be pressed).

14 =sum(click cells to sum) , =sum(a1:a4)

15 avg : =average(c1:c4), same goes for max, min

16 the brush of the menu strip copies a format (like currency) from selected cell to 2nd cells

17 format, conditional. (for formats of cell data) can add:  
condition, select from drop down arrow formula is, =select cell , f4 to make absolute delete \$ from row or column of  
cell to unabsolute it, example: =\$d4=today() then click format button to select format for the condition.

today's date row is highlighted with the selected format (color or whatever)

18 =vlookup(b5,click table cells and f4,column number,true or false close match) , will present data from selected table  
where the cell near it = b5 value or close to b5 value. warning select table data only not table heading (column titles)  
blank cell is regarded as value 0.

19 =if(isblank(cell),"text",vlookup(cell,name of table,column)) : in this vlookup is the else case of the if condition  
=something is a formula

20 copy a formula : select cell with formula and drag it on other cells or select other cells using ctrl

and mouse

21 ctrl ' : copy data of cell above

22.1 printing

increase scalling before printing : print preview (from menu), page setup, change % of scalling (near adjust to)

22.2 print only selected table : select table, ctrl + p check print selection

23 freeze row to make it visible when scrowlling down : click cell, on menu window, check freeze panes

24 common glitch repair:

automate calculations

tools, options, calculation tab, check automatic

25 get amount of cells while dragging and number them up +1 from the data in prime cell : drag while ctrl is pressed

26 transpose - paste row as column : select row, copy, ctrl + alt + v (or right click, special paste), check transpose

select column : ctrl + space bar , select row shift + space bar.

27 B\$1 - column 1 is locked \$A1- A is locked

formula =B\$1\*\$A1 is like current colomn,row1 \* colomn1,current row when dragged across other cells

if you are on cell d4 and type b4 the value will be of the cell two rows above, if d4 if dragged to d5 d5 will display c4, however b\$1\$ will display the value of cell b1 even if dragged to other cells.

28 enter same data in many cells - select cells, type data in currently selected cell, ctrl + enter.

29 add date : ctrl + ; add time : ctrl + shift + ; or type in a cell : =now() then right click the cell to manipulate the format of the current time.

30 redo : ctrl + y , repeats last action or undo ctrl + z (undo)

31 the ribbon is the fat tool bar bellow the main bars (view, home, insert...) collapse it : double click a main bar or ctrl f1.

32 split screen : double click beyond the arrow of the horizontal or vertical scroll bar or drag the edge of the chart, to undo double click the split line

33 copying from 1 xls file to another : open the 2 files, view, arrange all, now you can see both in a split screen or ctrl + tab to change betwin them.

34 copy without hidden set (to set hidden select colomn or row and right click) colomns and rows : alt + ;

35 sort : select a list of cells, file, options, advanced, edit custom lists, import - to add selected list ( or you can

type the list if it wasn't selected ) :

now you can : select a chart, click sort (from data tab if you use excel 2007) and choose to sort by the list.

also select a typed word from your list and drag it to auto fill the next items in the list.

( the lists can be deleted from the same place of the import )

simple sort a - z : select table, tab or shift + tab to get to the column by which you want to sort, click sort from the menu

36 zoom : ctrl + scroll of mouse , go to first cell of worksheet : ctrl + home , go to last cell : ctrl + end

37 duplicate a workshite (excel 2007) : drag a worksheet from the buttom of the screen, press ctrl, let go in new

worksheet area (where it says sheet2 sheet3 ...).

38 drag and insert a row or colomn : drag, while pressing shift then let go of mouse.

39 generate random number  $0 < \text{random} < 1$  : =rand()

40 get count of unique entries(categories) in a row or colomn : {=sum(1/(countif(b2:b6,b2:b6)))} , {} can be omitted

you can click colomn b2:b700 instead of typing it while entering the formula. for the colomn :

b2 : 1 b3 : 2 b4 : 1 b5 : 5 b6 : 4 the output in the cell with the formula is 4 ( nums 1, 2, 5, 4)

41 change all selected values : type a changer value in a cell, select it, copy (ctrl + c), select table, ctrl + alt + v

to special paste , select add, multiply or whatever to change the values in the chart by the changer value

42 strike through : a line to go through characters (for fired employes data) ctrl + 5, press again to undo.

43 remove border : press ctrl + shift + \_ while bordered tables or cell groups are selected

44.1 find parts duplicates : =if(c3:d3=c5:e5,"duplicate","unique") this goes in b2 and can be draggen down.

44.2 negate duplicates (excel 2007) : data, data validation, settings tab, formula, type:

=countif(A:a,A1)=1 now in colomn A the same data can't be entered twice, the formula conditions the input.

45 fast search : excel 2003 : click in a table, data (in the menu), list, creat list. excel 2007 : insert (from main menu),

table. now you can search using the new drop down arrows it give you viewing options. also you can color the table.

OR you can use (excel 2007) data, filter.

46 record and replay actions : view, macrow. to save a file with the macrow : save as file.xlsm

in excel 2010 : first : file, options, customize ribbon, check developer tab, from menu, developer tab, macrow security

disable all macrow with notification. from the devloper tab you can record and play macrow (actions) while recording use : ctrl + home or arrows or end to navigate in the worksheet, ctrl + f6 to switch windows

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(or worksheets), ctrl + shift + arrows to select cells

47 show all formulas in all cells and unshow : ctrl + `

48 import, export data : in excel 2010 : data (from main menu) , to the left choose where to import data from : from access, from text ... OR open the file from excel. EXPORT : save the file with an ending F12 (file extension) .txt .csv ...  
( but take out non text data such as pictures first )

VBA - visual basic for applications (in excel)

This chapter assumes you have read the vb.net chapter or know vb.  
a macro enables user to record and replay actions in excel, when editing a macro you can program it using visual basic script.

enable vba : file, options, customize ribbon, check developer tab, from menu, developer tab, macro security  
disable all macro with notification. from the developer tab you can record and play macro (actions) while recording use : ctrl + home or arrows or end to navigate in the worksheet, ctrl + f6 to switch windows  
(or worksheets), ctrl + shift + arrows to select cells

in some versions of excel you will find the macro in : main menu, view tab

the recorded macro can be edited in vba which unlocks the cheats(vba codes) of the recorded macro actions

files with macro end with : .xlsm ( excel macro enabled workbook)

1 toggle or untoggle vb ( visual basic ) editor : alt + f11

2 open explorer work bar : ctrl + r

3 in this workbook

```
private sub Workbook_BeforeClose(cancel as boolean) 'event to run at workbook close event  
if me.saved = false then me.save  
end sub ' private enables the sub or function only in the current workbook (not other workbook projects)
```

4 display object browser (cheat list) - f2

5 password your vba code : in vba, tools vbaproject properties

6 insert, module (you can add many modules) : here goes the main code that will run. in it :

```
sub nameOfSub() ' you can run just the sub when the cursor is in it and press f5  
msgbox("moti barski")  
end sub
```

```
function calccomisionx ( money as currency) 'can add : as double to display result with decimal  
calccomisionx = calccomisionx * 0.2
```

```
end function ' now you can use the function in a cell in excel, type (in any cell) =calccomisionx(a2)
```

'(assuming a2 has a value in it)

7 basics

dim n1 as integer ' define a variable

dim n2 as byte ' number 0-255

dim cr1 as currency, cr2 as currency ' define two variables in one line

static n3 as long ' will retain its value until workbook will have been closed, can only go in sub not as global variable

' outside of sub

const someVar = 20 ' constant variable if defined locally (in a sub) it overwrites a global const with the same name

activecell.value - get current selected cell's value

worksheets("its name").range("cell").value ' or .activate - refer or get cell value of specific worksheet

8 assign macro to run by clicking an added shape : main excel menu, insert, shape, right click shape, assign macro

9.1 dim ar1(4) 'array

dim ic as integer

worksheets("sheet1").activate

range("b2").activate

for ic = 0 to 4 ' can add : step 2 or other number

ar(ic) = ActiveCell.offset(ic,1).value 'refer to cells ic row,1 colomn from b3

next ic

9.2 dim ar2(6,7) as currency ' dimation array

10 set wks = thisWorkbook.Worksheets("sheet1")

wks.tab.color = vbgreen ' wks is a shortcut name

11 for each loop :

sub testForEach()

dim ar4(2) as string

dim var as variant

ar4(0) = "first"

ar4(1) = "2nd"

for each var in ar4

msgbox(var) ' do whatever

next var

end sub

for worksheets :

sub testForEach()

dim wb1 as workbook

dim ws1 as worksheet

set wb1 = ThisWorkbook

ar4(1) = "2nd"

for each ws1 in wb1.Worksheets

ws1.name &= "yo"

next ws1

end sub

12 do loops : ctrl + c or escape to exit infinite loop

worksheets("sheet2").activate

```
range("A2").activate
do
    if activecell.value = "" then exit do
    activecell.offset(1,0).activate
loop
```

```
13
dim n1 as integer
n1 =2
select case n1
case is => 3
    msgbox("smaller than 3")
case is = 1
    ' code here
case else
    'some code
end select
```

14 debug : f8 step by step, f5 run there is also debug in the vba editor(screen)

15 application. shows all sorts of tricks

16 refer to cells (its similar to range)  
cells(row,collomn).value ' notice row then collomn number  
as a reminder  
range("f5").value ' there is a difference

17 cut paste : in a sub type :  
worksheets("worksheetname").activate  
range("b4:d20").select  
selection.cut ' cuts the table mouse, .copy also works  
sheets("sheetname").select ' work sheet to be paste on to is selected  
activesheet.paste ' paste the selected table (cells)  
application.cutcopymode = false

18 events : to add do like in vb.net click an object from solution explorer, below near the properties window click  
events, double click an event from the list, type your code in the added private sub in the editor(main vba) window.

## MS ACCESS

terminology : row = record, collomn = category or field table = rows & collomns

1 new, create, table thats pretty much it.

2 if a field type is set (in the menu ribbon) as autonumber it will fill the field automatically with a number

3 you can import excell files to ms access (import from menu)

## THE ART OF WAR

THE DECISION HAS BEEN MADE THE PROCESS HAS BEGUN

THE ART OF WAR aka cheats for gomoku(ancient board game)

1 The Moral Law causes the people to be in complete accord with their ruler.

2 adapt your army to the weather

3.1 rank your soldiers, higher rank commands lower rank

3.2 higher levels are responsible for glitches

4 map and protect the routes of provisions

5 your general must have the most ability, wisdom and reliability

6 All warfare is based on deception: show the enemy the opposite of your state (when close appear near)

7 tactics:

7.1 enemy is stronger, evade him and split him by attacking his smallest division

7.2 enemy is of choleric temper, anger him

7.3 the bigger your enemy attack his supply lines

7.4 take no delays

7.5 forage on the enemy(take his materials)

7.6 avoid attacking besiege walled cities

7.7 capture those who surrender

8 army:

8.1 reward them for defeating the enemy

8.2 treat soldiers politely, feed them and provide some entertainment for moral

8.3 train your soldiers mentally and physically

8.4 scold miss behaved soldiers

9 attack

9.1 If equally matched, we can offer battle;  
if slightly inferior in numbers, we can avoid the enemy;  
if quite unequal in every way, we can flee from him.

9.2 place your army in secured locations to protect your turf, but always minimize there division  
take high places and go fast, the first to the battle field has the advantage

strongest move :

place a small force as bait for the enemy, while trying to join that small force with a bigger stable force to surround the enemy.

10 THE USE OF SPIES

10.1 pay them alot so they will be loyal

10.2 pay to convert enemy spies to double spies and give them liberties

10.3 place your spies as various freelancers(like a PC technician) in the enemy's areas

## ONE ON ONE FIGHTING

yotamarker fighting style:

- 1 use fear to attack for it is power.
- 2 watch your target for the attack to determine itself automatically
- 3 if your enemy is a negging women choose 1 word and repeat it in a loop until she stops
- 4 120 push ups per day 6 days per week on knuckles to strengthen bones

so much for 1 on 1 fighting

## NAVIGATION FOR QUERIERS

a technique for bicycle queries to get from a to destination b.

- 1 get 4 directions: the sun sets in the west, opposite to that is the east, if the west is to your left you are facing the north and behind you is the south.(or use compass)
- 2 get a map the city(or town in japan) you work in(print it from the net or you can buy it in the city's gas stations)
- 3 mark lines across your map :
  - 3.1 9 or 99 lines horizontal, 9 or 99 diagonal. (9 for small maps)
  - 3.2 number the formed squares horizontal.diagonal , bottom left square is 1.1
  - 3.3 make a list each squares and the places it contains, this will be memorized.
- 4.1 point a is your start position, point b is your destination.
- 4.2 just in case print from a map web site the route for your destination.
- 4.3 if point b is in the map region but not listed ask your client how to get there he will say its near a point in your list.
- 5.1 if point a horizontal is lower then b's go north else go south
- 5.2 if point a diagonal is lower then b's go east else go west
- 5.3 if you are in the square of destination but can't find it ask or drive around the square for the destination.

## SOLAR NAVIGATION

GET LATITUDE (north to south position on planet):

- 1 build sexton:
  - 1.1 make have a circle of any material such as cardboard
  - 1.2 mark half circle worth degrees 0-90 (0 at half point on perimeter) with even spread
  - 1.3 tie string to circle center and tie paper clip to end of string
- 2.1 aim half circle at sun till you get a light spot on dark object behind sexton
- 2.2 check angle the string is on

GET LONGTITUDE(west to east position on planet) :

- 1 write down place of your departure and make shure your watch is set accurately to local time

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2 while traveling find noon by the time in which the shadow is shortest

2 check time difference between your watch and 12:00

3 for each hour your ahead of 12:00 you are 1000 KM from departure location

japan addresses

japanese addresses are exceptions, there are no streets, japan is divided into squares within squares.

a japanese address(location):

japanese postal mark, postal code \*

A1,A2,A3,A4,A5,A6

to person x

A1 is a square bigger then A2 and so on.

A1-a prefecture, ends with to for tokyo, do for hokkaido, fu for for osaka and kyoto and ken for other 43

prefectures

A2-municipality: ends with shi(city) or in tokyo also with ku(ward) or gun(big district)

A3-town: ends with cho, machi or mura(village)

A4-district ends with chome

A5-block ends with ban

A6-house number: ends with go

example:(instead of the make a small T with a line above it and put a horizontal line above o,u letters)  
(te)100-8994

Tokyo-to Chuo-ku Yaesu itchome go-ban san-go

Tokyo Chou Yobin-kyoku

or:

Tokyo Central Post Office

5-3, Yaesu 1-Chome

Chuo-ku, Tokyo 100-8994

or:

Tokyo Central Post Office

1-5-3 Yaesu, Chuo-ku

Tokyo 100-8994

in kyoto instead of A4-6 you may write the streets intersection near the target and if the target is:

above the streets :agaru

below the streets :sagaru

east the streets :higashi-iru

west the streets :nishi-iru

HOW TO WRITE A RESUME

name

date of birth

place of birth

contact(24\7)

status(single)

education/skills: degree/report card, place of study  
experience:

military service:  
languages(and level):

hobbies:

## How To Do Laundry

A washing machine  
Laundry detergent  
And a dryer  
Stain remover (optional)  
A toothbrush  
Fabric softener, liquid or sheets (optional)  
Some bleach  
A clothesline or drying rack (optional)

1 Separate clothes into: whites, light colors, delicates, and darks. take out hard objects and money from cloth

2 stains place a concentrated dab of detergent or stain remover on the stains and work it in with a toothbrush or by rubbing the fabric against itself.

powders work best in water to remove clay and mud, while liquids are good at removing grease and oily stains.

3 the detergent should go in when the machine is full of water(the start), the bleach after the clothes have been soaking a few minutes, and fabric softener during the rinse cycle.

4 Choose cycle:

Use 'regular' for very dirty clothes and heavy cottons, 'permanent press' for your average load, and 'delicates' for knits or lightweight items.

If an article is particularly fine or lacy, hand-wash it to prevent any damage.

5 Choose temperature of water

For whites or very dirty colorfast items, use hot water. For most average loads, use warm water. For delicates, bright colors, and to prevent clothes from shrinking, use cold water.

6 hit start, The average wash cycle will take anywhere from 20 to 30 minutes.

7 claen lint from filter

8 hang cloth to dry or put in dryer

9 softener sheet:

If you're using fabric softener sheets instead of liquid, add one sheet to the dryer.

final: Fold or hang clothes

## PLANTING

### HOPE IS ALL WE HAVE, WHEN EVERYTHING ELSE FAILS

1 in a big container with holes: mix leftover vegetables, crusted eggs, dried leaves, leftover vegetables, straw, leaves, twigs, paper, cardboard, grass clippings. aka brown and green materials. place layer of green on layer of brown. mix up the pile every day to get air in it.

2 mix up the soil, dig 3 inches deep trenches, add compost, plant the seed of plant. if you wrap the plant with cardboard around it magetes will keep away.

3 big plants are planted far apart according to their size.

4 take out weeds and rocks.

5 watering: 1 inch of water per week (3 hours for a small sprinkler ).

6 usually plants are ready to eat after 3 months.

### 7 How Long to Keep Garden Seeds:

7.1 Store vegetable seeds and annual seeds for 2 to 3 years in a cool area with little moisture.

7.2 Keep vegetable seeds like beets, cucumbers and radishes for up to 10 years in airtight containers

7.3 Replace old asparagus, delphinium or magnolia seeds. They have a short seed life

7.4 Keep individual varieties of seeds segregated in separate, clearly labeled containers. This helps to maintain seed strains and purity

7.5 Keep seeds outside on the north side of the house away from the sun and drying winds. Place them in a cold

frame or green house for additional protection from the elements.

### 8 Organic Garden Pest Control:

8.1 Smell: Garlic, tobacco, rhubarb, fish and other strong smelling substances that are used to repel pests.

8.2 Gases and odor molecules: Many plants give off natural odors or have volatile oils which some bugs find

unpleasant. Often these odors or oils are a warning to bugs that the plant contains its own built in insecticide.

Concoctions made from these plants will deter pests.

8.3 Heat or fumes: Chilies, kerosene, methylated spirits, salt etc, will burn, harm or kill pests.

8.4 Oil: Mineral oil, vegetable oils and proprietary oils, such as those made with cottonseed oil, will suffocate

soft-bodied pests.

8.5 Soap: Natural vegetable based soaps or detergents are added to sprays in small amounts to make them

stick to plants. Many insects dislike and are harmed by soap also.

8.6 Garlic fire spray: , chilli peppers, soap, vegetable oil, kerosene and water

8.7 LADYBUGS.

#### 8.8 Fish Fertilizer

8.91 to kill ants mix Borax or other poison with peanut butter.

8.92 If you find the ants' nest sprinkle: black pepper, cayenne pepper, cinnamon or chilli powder, salt, Boiling water with digging in to the nest. also wear boots with fur on top to keep the ants from climbing you

#### 10 Caterpillars:

spray with a molasses(or vinegar) blend. Mix one tablespoon of molasses with a litre of hot water.

Then add a

teaspoon of liquid detergent and put in a spray bottle. Spray the leaves, top and bottom, about once a week.

#### 11 Earwigs:

crumple some newspaper in old flower pots and leave them in the garden. The earwigs will hide in the paper

once they're done eating. In the morning, shake the paper out.

12 Gophers: keep a cat and a bird bath for birds of prey.

13 Mice: Deter mice with peppermint or eucalyptus oil, and put food in containers

14 Mildew, mould and fungus: Plants that are susceptible to mildew, such as peas, pumpkin, zucchini and

cucumber can benefit from a milk spray. Use full-cream milk and spray every few days on the leaves until the

mildew is under control. If the situation is out of control destroy the plant

15 Slugs: sprinkle with salt, and take them out at night. Also Sprinkle crushed egg shells around vulnerable plants

#### 16 Spider mites:

Natural predatory mites are the best control, so having compost and mulch to encourage beneficial mites will

keep the right balance. Spiders, parasitic wasps, lady bugs and lacewings also feed on red spider mites

17 Use a soap spray to eradicate these critters. Spray plants weekly until mites are gone, then monthly to stop

them from returning

18 Sun Dried Vegetables: dry the vegetables in the sun at least 3 days in low humidity

19 preserving food: put food in sealed dark container add vinegar or lemon juice, boil, seal(with cork or

metal)

#### FOOD BY SEASONE

plant according to seasone

if you buy according to seasone its fresher and cheaper

Winter

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Chestnuts, Grapefruit, Lemons, Oranges, Tangerines, Kale, Leeks, Radicchio, Radishes, Rutabaga, Turnips, Spring

Apricots, Avocado, Mango, Pineapple, Rhubarb, Strawberries, Artichoke, Asparagus, Carrots, Celeriac, Chives

Collards, Fava Beans, Fennel, Fiddlehead Ferns, Morels, Mustard Greens, New Potatoes, Spinach

Spring

Baby Lettuce Mixes, Sugar Snap and Snow Peas, Vidalia Onions, Watercress

Summer

Blackberries, Blueberries, Nectarines, Peaches, Plums, Raspberries, Tomatoes, Watermelon, Beets, Broccoli

Chinese Cabbage, Corn, Cucumber, Eggplant, Garlic, Green Beans, Summer Squash, Zucchini

Fall

Apples, Cranberries, Figs, Grapes, Pears, Pomegranate, Quince, Acorn Squash, Belgian Endive, Butternut Squash

Cauliflower, Celeriac, Garlic, Ginger, Mushrooms, Parsnips, Potatoes, Pumpkin, Sweet Potatoes, Swiss Chard

GROW POTATOS

this might not work with super market potatoes as they are bio gliched

get a certified seed potato, cut pieces of it (with black little balls), plant 3 inches below ground, spread them apart.

they take 3 months to grow.

HUNTING small animals :

how to tie a noose :

1 shape rope as an S

2 smash the S

3 take the right end of S, and coil it around the S middle to left end.

4 take small end of rope in left end (leftover of coil), put it through the left big loop, hold it with your thumb

5 pull rope from right side

6 when animal is on it (lure with bait in laid noose) PULL FAST

MUSHROOMS

1 Mushroom spores: tiny (mostly white) balls

2 Growing medium: include such things as (hardwood) woodchips, straw, saw dust, to coffee grounds, logs,

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and /or similar organic items. The medium is what your mushroom spores will grow in, consume, and turn into

edible mushrooms. aka peat moss.

3 plastic bags (to store the growing medium in), boxes or trays to keep your mushroom growing bag in or to grow

the mushrooms in directly, watering equipment

Portobello mushrooms:

1 Fill your growing tray with the well-rotted moist compost; be sure that it is not soggy.

2 put 1 1/2 cups of dry spawn flakes into the compost, leave it overnight.

In the morning you can press it down with a piece of wood the temperature to be between 65 and 70 degrees

Fahrenheit

3 After about two to three weeks, white webbing grow on the surface. put about a 1 1/2 layer of moist peat moss

over it. And cover the damp peat moss with a few layers of newspaper. You should evenly spray the layers of

newspaper twice a day to keep moist. Do not lift the newspapers; you want the soil to be left alone for 10 days

at 55 degrees Fahrenheit

4 After 10 days you'll remove the newspaper and continue to mist the soil twice daily.

## THE ECONOMY

value assigned paper

the government distributes food and money to its humans.

anything can be attributed to value, money is one of them.

now money can be traded, however its value corresponds to the stuff it is traded for.

in the past, money = hardwork and invention

presently, money = no work and idiocy, much money is given to singers, performers and such that get paid

for standing in front of the camera, sing for 4 minutes songs that give me headaches and get millions for that.

now money corresponds to a model who just walks on a catwalk, money now has no real value so its economy

has no motivation to produce, it is finished.

the stuck exchange also controls where money goes to, in 2011 they send it to idiocy.

## TO STRENGTHEN THE ECONOMY :

abolish taxes and bank intrests

increase amount of allowance(money, food) per citizen (with minimum bureaucracy)

abolish or deminish religions

encourige negation of overpopulation

limit workers per area (facility)

## HOW TO DESTROY A COMPANY THAT ANNOYED YOU :

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provide their services for free, examples :

course company who teaches pc repair : offer free walkthroughs online  
taxi who overcharged you : carpool

the more technical knowledge one has the less he is dependent on money.

IF YOU HAVE COOL WALKTHROUGHS PLEASE SEND THEM I WILL CREDIT YOU IN THE NEXT  
BOOK