Introduction to Programming
What is in this?

- Computer Is our Secretary!
- Programming Concepts
- Programming Lingo
- Tips for Getting your Fingers Dirty
What is Programming?

A computer program is

a sequence of instructions

written to perform a specified task

for a computer.

Source: http://en.wikipedia.org/wiki/Computer_program
Computer *IS* our secretary
And there is no gender bias...

Hello World Program

Sub helloWorld()
    Debug.Print "Hello World"
End Sub
More Hello Worlds

Sub helloWorld2()
    MsgBox "I am a pretty little box!", vbOKOnly, "Hello World"
End Sub

Sub helloWorld3()
    ActiveCell.Value = "Hello World!"
End Sub
Programming Concepts

- Variables
- Operators
- Conditions
- Loops
- Exception Handling
- Modularization
- Commenting, Documentation, Help
- Forms, Buttons & Graphical Elements
Variables

Little boxes where computer keeps the data while doing the work
Operators

+ - / * = <> ! . @ % ^ | ( ) { } [ ] ; :
Conditions

IF then ELSE

SELECT

AND OR NOT
LOOPS

FOR

WHILE

GOTO
Exception Handling

On Error Play “Oops!... I did it again”

Something else..

Something else..
Modularization

A car is not really a car,

It is thousands of parts carefully put together

So is any computer program

It is made up of other smaller computer programs
Commenting, Documentation etc.

• Pieces of code that we write to tell ourselves what is going on

• Computers ignore comments
Graphical Elements

Buttons
Radio Buttons
Option Buttons
Combo Boxes

Tabs
Scrollbars
Images
So much more...
Programming Concepts - recap

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