



# Introduction to Programming

# What is in this ?

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

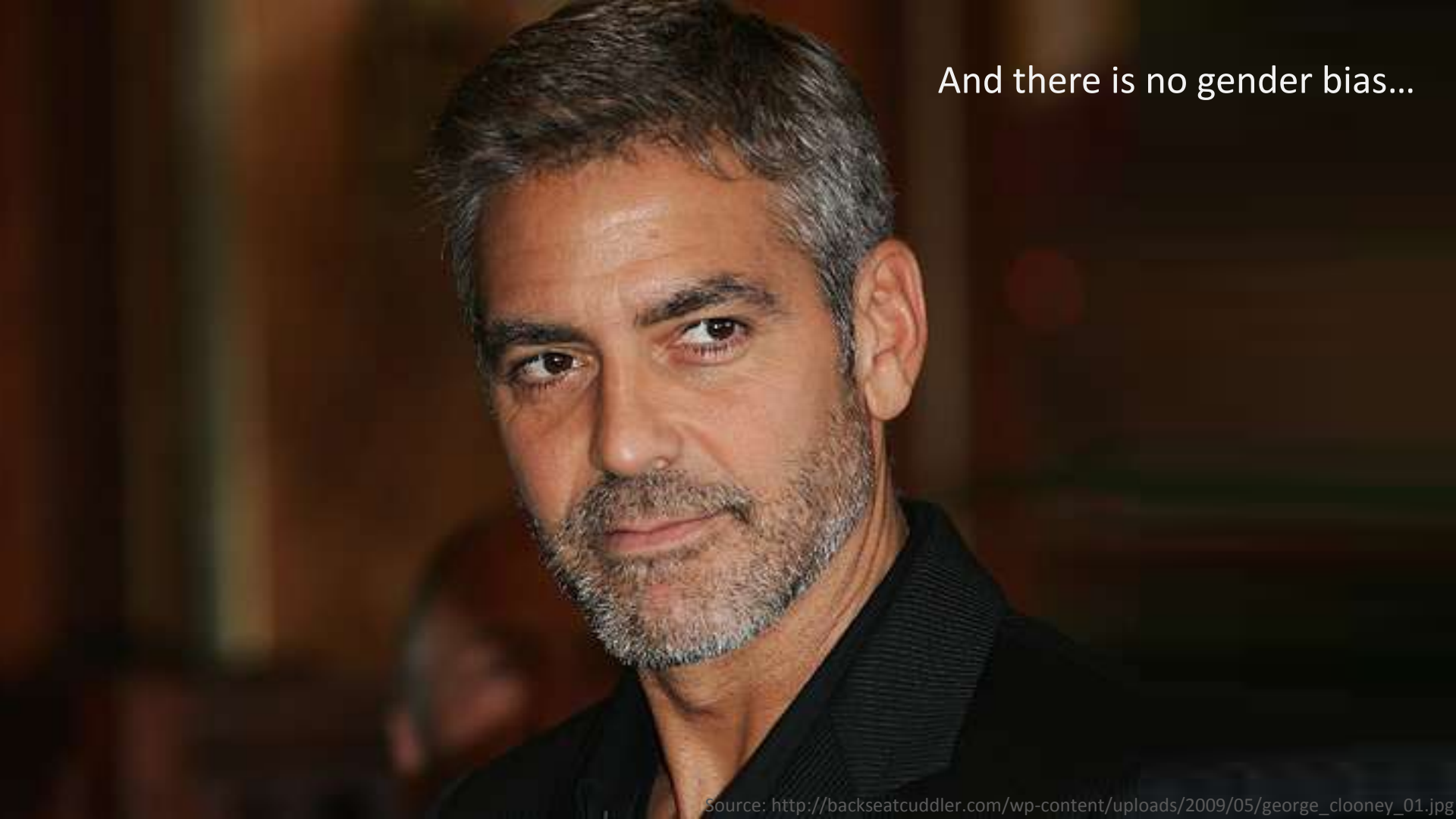
# What is Programming?

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](http://en.wikipedia.org/wiki/Computer_program)

# Computer *IS* our secretary



A close-up portrait of George Clooney with grey hair and a beard, looking slightly to the left. He is wearing a dark, textured shirt. The background is blurred and dark.

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"

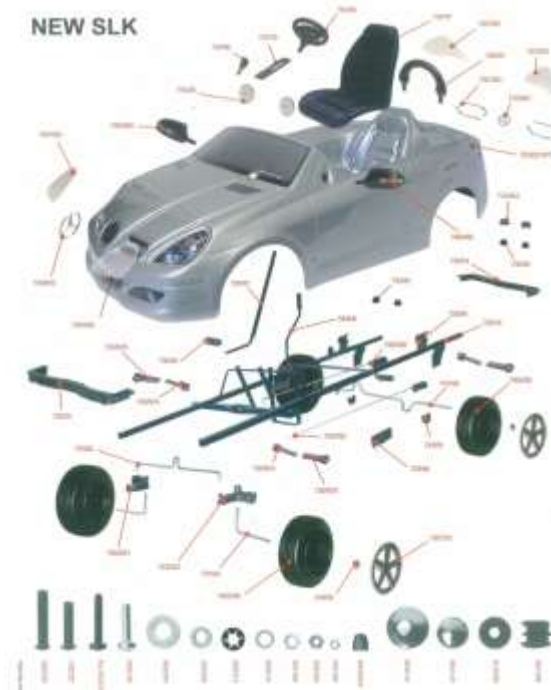
Something else..

Something else..

# Modularization

A car is not really a car,  
It is thousands of parts carefully  
put together

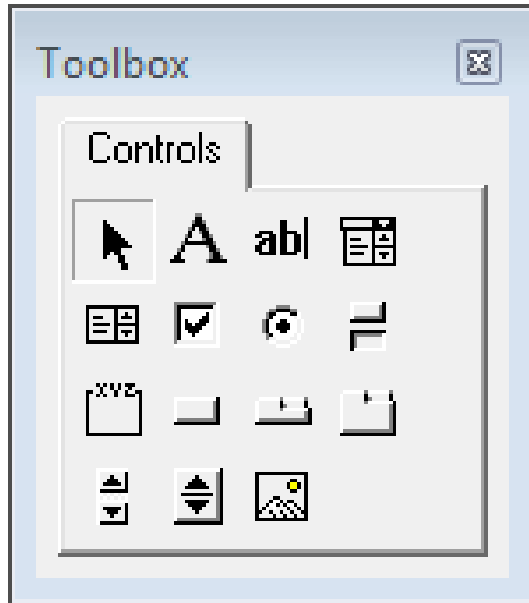
So is any computer program  
It is made up of other smaller  
computer programs



# 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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# Thank you

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