

# Introductory Code for Schools

## Python Reference Sheet

### Displaying Text on the Screen

```
print("Hello, world!")
```

### Pausing Until the User Presses [ENTER] to Continue

```
input("Press [Enter] to continue")
```

### Comments

```
# These are comments, everything after  
# the hash sign is ignored by Python.  
# These make your code easier to read.
```

### Letting the User Enter Text, Displaying it to the Screen

```
name = input("Please enter your name:")  
  
print("Hi, " + name + ", how are you?")
```

### Making a Decision with an if Statement

```
if name == "Joan":  
    print("My name is Joan too!")  
    print("Have a nice day!")  
  
# Note:"Have a nice day!" is always shown  
# because it is not part of the IF  
# code block
```

### Not Equals with an if Statement

```
if name != "Tom":  
    print("Have you seen Tom, btw?")
```

### Multiple if Statements

```
if name == "Joan":  
    print("My name is Joan too!")  
if name == "John":  
    print("My brother's name is John.")  
if name == "Hugo":  
    print("My best friend is called Hugo.")  
print("Bye now!")
```

### Repeating Code (goto Loops)

```
label .ask_again  
password = input("Enter password:")  
if password != "letmein":  
    print("Incorrect, try again.")  
    goto .ask_again  
  
print("Welcome inside!")
```

### Displaying Text in Colour (from goodies module)

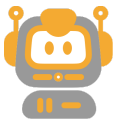
```
from goodies import * # the goodies module  
                      # needed for colour  
  
print(Colour.red + "In red.")  
print(Colour.blue + "In blue.")  
print(Highlight.blue + "Blue highlight.")  
print(Highlight.cyan + "Cyan highlight.")  
print(Style.bold + "In bold.")  
print(Style.underline + "Underlined.")  
print(Colour.reset + "Back to normal.")  
print(Colour.red + Highlight.blue +  
      Style.bold + "Combined red text, blue  
      highlight and bolded!")
```

### Make your code sleep

```
sleep(2) # sleep for 2 seconds  
print("I'm awake now!")
```

### Colour and Style Guide (from goodies module)

Colour.brown	Highlight.brown	
Colour.red	Highlight.red	
Colour.orange	Highlight.orange	
Colour.pink	Highlight.pink	
Colour.yellow	Highlight.yellow	
Colour.green	Highlight.green	
Colour.cyan	Highlight.cyan	
Colour.blue	Highlight.blue	
Colour.purple	Highlight.purple	
Colour.magenta	Highlight.magenta	
Colour.white	Highlight.white	
Colour.grey	Highlight.grey	
Style.bold	Style.underline	Style.italics



# Additional functions in Code for Schools Python

## Speak Text

```
# Will say the text using browser speech
say("How are you?")

# Speak in voice number 2. Try numbers 0
and upwards (voices vary between devices)
say("I am great! And you?", 2)
```

## Slow Printing Letter-by-Letter (from [goodies](#) module)

```
from goodies import slowPrint

# Prints each the text one letter at a time
slowPrint("Hi there!")

# Change to 1 second delay per letter
slowPrint("Even slower!", delay = 1.0)
```

## Displaying Images (from [goodies](#) module)

```
from goodies import printImage

# Displays image URL (internet address)
# E.g. "https://csinschools.io/logo.png"
printImage("logo.png")

# Displays the image URL with a
# width of 300 pixels, height of 400 pixels
printImage("logo.png", 300, 400)
```