

Keywords		
Keyword	Description	Example
and	Logical and	True and False == False
as	Part of the with-as statement	with X as Y: pass
assert	Assert that something is true.	<code>`assert False, "Error!"</code>
break	Stop this loop right now.	while True: break
class	Define a class.	class Person(obj ect)
continue	Don't process more of the loop, do it again.	while True: continue
def	Define a function.	def X(): pass
del	Delete from dictionary.	del X[Y]
elif	Else if	if: X; elif: Y; else: J
else	Else condition	if: X; elif: Y; else: J
except	If an exception happens, do this.`	except ValueError , e: print e
exec	Run a string as Python	exec 'print "hello"'
finally	Exceptions or not, finally do this no matter what.	finally: pass

Keywords (cont)		
for	Loop over a collection of things.	for X in Y: pass
from	Importing specific parts of a module.	from x import y`
global	Declares a global variable	global X
if	If condition	if: X; elif: Y; else: J
import	Import a module into this one to use.	import os
in	Part of for-loops. Also a test of X in Y.	for X in Y: pass also 1 in [1] == True
is	Like == to test equality	1 is 1 == True
lambda	Create a short anonymous function	s = lambda y: y ** y; s(3)
not	Logical not	not True == False
or	Logical or	True or False == True
pass	This block is empty.	def empty(): pass
print	Print this string.	print 'this string'
raise	Raise an exception when things go wrong.	raise ValueError("N o")

Keywords (cont)		
return	Exit the function with a return value.	def X(): return Y
try	Try this block, and if exception, go to except.	try: pass
while	While loop	while X: pass
with	With an expression as a variable do.	with X as Y: pass
yield	Pause here and return to caller.	def x(): yield Y; X().next()

Data Types		
Type	Description	Example
True	True boolean value	True or False == True
False	False boolean value.	False and True == False
None	Represents "nothing" or "no value".	x = None
strings	Stores textual info	x = "hello"
numbers	Stores integers	i = 100
floats	Stores decimals	i = 10.389
lists	Stores a list of things	j = [1,2,3,4]
dicts	Stores a key=value mapping of things	e = {'x': 1, 'y': 2}



String Formats

Escape	Description	Example
%d	Decimal int	"%d" % 45 == '45'
%o	Octal number	`%o` % 1000 == '1750'
%u	Unsigned decimal	"%u" % -1000 == '-1000'
%x	Hexadecimal lowercase	"%x" % 1000 == '3e8'
%X	Hexadecimal uppercase.	"%X" % 1000 == '3E8'
%e	Exponential notation, lowercase 'e'.	"%e" % 1000 == '1.000000e+03'
%E	Exponential notation, uppercase 'E'.	"%E" % 1000 == '1.000000E+03'
%f	Floating point real number.	"%f" % 10.34 == '10.340000'
%F	Same as %f.	"%F" % 10.34 == '10.340000'
%g	Either %f or %e, whichever is shorter.`	"%g" % 10.34 == '10.34'
%G	Same as %g but uppercase.	"%G" % 10.34 == '10.34'
%c	Character format.	"%c" % 34 == 'c'
%r	Repr format (debugging format).	"%r" % int == '<type 'int'>'
%s	String format.	"%s there" % 'hi' == 'hi there'

String Formats (cont)

%% A percent sign.
"%g%" % 10.34 ==
'10.34%'

String Escape Sequences

\\	Backslash
\'	Single-quote
\''	Double-quote
\a	Bell
\b	Backspace
\f	Formfeed
\n	Newline
\r	Carriage
\t	Tab
\v	Vertical tab

