Cheatography

Programming Cheat Sheet by godley via cheatography.com/22754/cs/4738/

Data types			Casting		Comparators		Conditionals	
name	value		cast	what it does	symbo	I meaning	value = 3	
string	anything1234	!!@£\$%"	str()	converts to a string	==	equal to	<pre>if value < 4: print("less than</pre>	
integer	1234		int()	converts to an integer	>	larger than		
float	bat 1.2345		float()	converts to a float	<	less than	4")	
bool True/False			Casting is used to convert between values. It needs to occur before doing any mathematical calculations with an input() from a user because user input is always strings.		>=	larger than or equal	<pre>elif value > 2:</pre>	
					<=	less than or equal		
Variable naming rules					!=	not equal		
1. Easy to remember							print("some other	
2. Short					Boolean operators		value")	
3. No spaces				and I	ooth values must be true	else and elif must follow an if. Else		
4. Cannot start with a number			Variable assignment name = "abcdef123" age = 18		oreither value may be truexoreither value may be true, but	cannot come before elif. Whitespace before the print statements indicates they are only to print if the condition is met		
5. Can only contain letters, numbers and underscores								
					not both			
Collection	s and generi	cs	height	. = 3.14	Arithm	etic operators		
Name Usage Code		Useful python functions		+ add		Loops		
List	Multiple items in one variable	["apple", "banana", "strawbe rry"]	print("t ext")	outputs text to screen	+		# infinite loop	
					*	- subtract * multiply	while True:	
			input("t ext") round(3.14)	prints text and allows input from a user rounds a float down to an integer	1		<pre>print("cheese!") # counter loop - 0-9 for i in range(10):</pre>	
					/	divide		
Dictionary	Multiple key-value pairs in one variable	{"hello": "world"}				power		
					%	modulus	print(i) # iterating a list	
							<pre>collection = ['apple',</pre>	
							'orange', 'banana']	
							for value in collection:	
							print(value)	



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