



# Essential Python Cheat Sheet



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# DATA TYPES

Integer	-256, 15
Float	-253.23, 1.253e-10
String	"Hello", 'Goodbye', ""Multiline""
Boolean	True, False
List	[ value, ... ]
Tuple	( value, ... ) <sup>1</sup>
Dictionary	{ key: value, ... }
Set	{ value, value, ... } <sup>2</sup>



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## Arithmetic Operators

$x + y$     add  
 $x - y$     subtract  
 $x * y$     multiply  
 $x / y$     divide  
 $x \% y$     modulus  
 $x ** y$      $x^y$

## Comparison Operators

$x < y$             Less  
 $x <= y$           Less or eq  
 $x > y$             Greater  
 $x >= y$           Greater or eq  
 $x == y$           Equal  
 $x != y$           Not equal





# Statements

## If Statement

if expression:  
    statements

elif expression:  
    statements

else:  
    statements

## While Loop

while expression:  
    statements

## For Loop

for var in collection:  
    statements

## Counting For Loop

for i in range(start, end [,  
step]):

    statements  
(start is included; end is not)





# Conversion Functions

<code>int(expr)</code>	Converts expr to integer
<code>float(expr)</code>	Converts expr to float
<code>str(expr)</code>	Converts expr to string
<code>chr(num)</code>	ASCII char num





# String / List / Tuple Operations

<code>len(s)</code>	length of s
<code>s[i]</code>	ith item in s (0-based)
<code>s[start : end]</code>	slice of s from start (included) to end (excluded)
<code>x in s</code>	True if x is contained in s
<code>x not in s</code>	True if x is not contained in s
<code>s + t</code>	the concatenation of s with t
<code>s * n</code>	n copies of s concatenated
<code>sorted(s)</code>	a sorted copy of s
<code>s.index(item)</code>	position in s of item





# More String Operations

- `s.lower()` lowercase copy of `s`
- `s.replace(old, new)` copy of `s` with `old` replaced with `new`
- `s.split( delim )` list of substrings delimited by `delim`
- `s.strip()` copy of `s` with whitespace trimmed
- `s.upper()` uppercase copy of `s`





## Dictionary Operations

<code>len(d)</code>	Number of items in d
<code>del d[key]</code>	Removes key from d
<code>key in d</code>	True if d contains key
<code>d.keys()</code>	Returns a list of keys in d

## Exception Handling

### Exception Handling

try:

statements

except [ exception type [ as var ] ]:

statements

finally:

statements

More Here: [t.me/TechPsyche](https://t.me/TechPsyche)



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