



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, ...) ¹
Dictionary	{ key: value, ... }
Set	{ value, value, ... } ²



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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)



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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

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



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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



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