CHEATSHEET FOR

# Python

#### Lists

```
list = []
list[i:j] # returns list subset
list[-1] # returns last element
list[:-1] # returns all but the last element
list[i] = val
list[i:j] = otherlist # replace ith to jth element with otherlist
del list[i:j]
list.append(item)
list.extend(another_list)
list.insert(index, item)
list.pop()
                 # returns and removes last element from the list
list.pop(i)
                 # returns and removes i-th element from the list
list.remove(i)
                 # removes the first item from the list whose value is i
list1 + list2
                 # combine two list
set(list)
                  # remove duplicate elements from a list
list.reverse()
                  # reverses the elements of the list in-place
list.count(item)
sum(list)
zip(list1, list2) # returns list of tuples with n-th element of both list1 and list2
list.sort()
                  # sorts in-place, returns None
sorted(list)
                  # returns sorted copy of list
",".join(list)
                  # returns a string with list elements seperated by comma
```

### Dict

```
dict.keys()
dict.values()
"key" in dict  # let's say this returns False, then...
dict["key"]  # ...this raises KeyError
dict.get("key")  # ...this returns None
dict.setdefault("key", 1)
```

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#### **Iteration**

```
for item in ["a", "b", "c"]:
for i in range(4):  # 0 to 3
for i in range(4, 8):  # 4 to 7
for i in range(1, 9, 2):  # 1, 3, 5, 7
for key, val in dict.items():
for index, item in enumerate(list):
```

## **String**

```
str[0:4]
len(str)
string.replace("-", " ")
",".join(list)
"hi {0}".format('j')
str.find(",")
str.index(",")
                # same, but raises IndexError
str.count(",")
str.split(",")
str.lower()
str.upper()
str.title()
str.lstrip()
str.rstrip()
str.strip()
str.islower()
```

# Casting

```
int(str)
float(str)
str(int)
str(float)
'string'.encode()
```

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# Comprehensions

```
[fn(i) for i in list]  # .map
map(fn, list)  # .map, returns iterator

filter(fn, list)  # .filter, returns iterator
[fn(i) for i in list if i > 0]  # .filter.map
```

# Regex

```
import re

re.match(r'^[aeiou]', str)
re.sub(r'^[aeiou]', '?', str)
re.sub(r'(xyz)', r'\1', str)

expr = re.compile(r'^...$')
expr.match(...)
expr.sub(...)
```

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