CREATING VARIABLES

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```
x = 5
```

CREATING VARIABLES

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```
x = 5
```

CREATING VARIABLES

= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /U...ides.css :...:
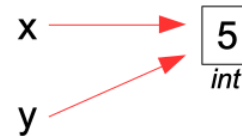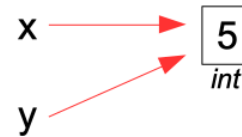
```
x = 5
y = x
```
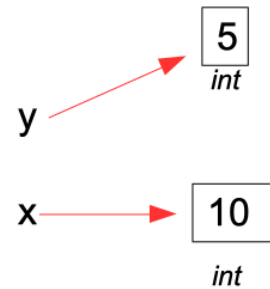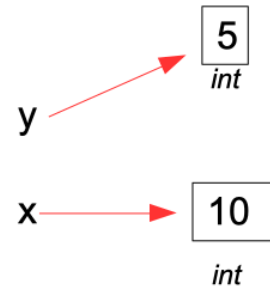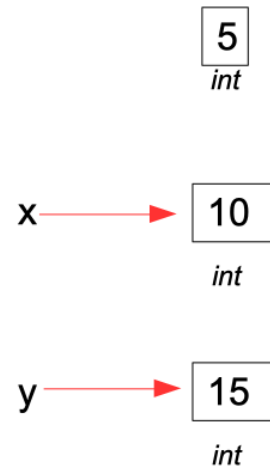
CREATING VARIABLES

```
x = 5
y = x
```

CREATING VARIABLES

```
x = 5
y = x
x = 10
```

CREATING VARIABLES

```
x = 5
y = x
x = 10
```

CREATING VARIABLES

```
x = 5
y = x
x = 10
y = 15
```

CREATING VARIABLES
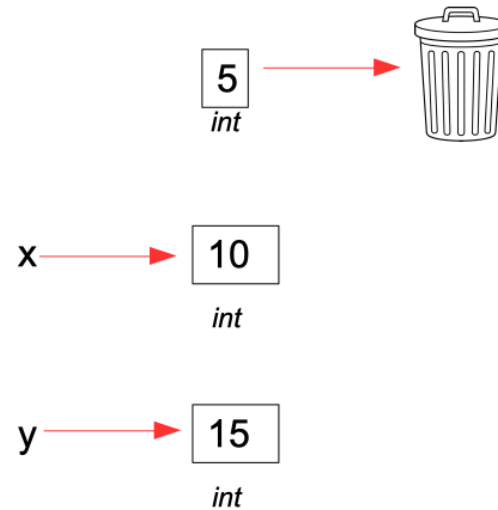
= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /U...ides.css :...:

```
x = 5
y = x
x = 10
y = 15
```

5
int

x → 10
int

y → 15
int

CREATING VARIABLES

```
x = 5
y = x
x = 10
y = 15
```

STRING LITERALS

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- Three flavors

  - single-delimited

  - triple-delimited

  - raw

SINGLE-DELIMITED

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- Use either single or double quote character

```
"spam\n"
'spam\n'

print("Guido's the bomb!")
print('Guido is the "benevolent" dictator of Python')
```

TRIPLE-DELIMITED

- Single or double quote character
  - Triple quoted or tripled double-quoted
- No need to escape quotes

```
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:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
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```

```python
"""spam\n"""
'''spam\n'''

query = """
    select *
    from logs
    where date > '2018-02-19'
"""

print('''Guido's the "benevolent" dictator of Python''')
```

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RAW

- Does not interpret backslashes

```
r"spam\n"
r'spam\n'
```

SEQUENCES

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images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

```python
colors = ['purple', 'orange', 'black']
print(colors[1])   # prints 'orange'
for color in colors:
    print(color)
```

SLICES

```
s = "WOMBAT"

s[0:3]        # first 3 characters  "WOM"
s[:3]         # same, using default start of 0 "WOM"
s[1:4]        # s[1] through s[3] "OMB"
s[3:6]        # s[3] through end  "BAT"
s[3:len(s)]   # s[3] through end  "BAT"
s[3:]         # s[3] through end, using default end "BAT"
```

DICTIONARY

- Key/value pairs
- Keys must be immutable
  - str
  - int, float
  - tuple
- Keys are unique
- Keys/values stored in insertion order

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DICTIONARY ITEMS

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```
for key, value in ...:
    ...  # use key or value here
```

READING TEXT FILES

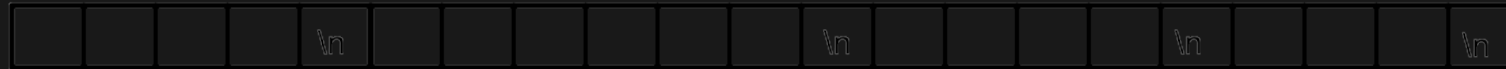= :source-highlighter: pygments :icons: font :navigation: revealjs :hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

```
with open("somefile") as file_in:
```

READING ONE LINE AT A TIME

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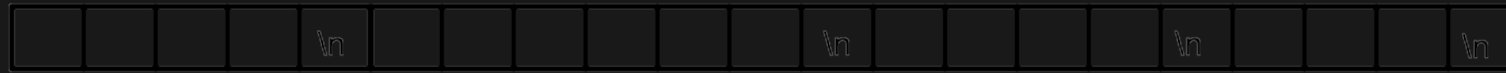:navigation: reveal.js_hash: true :customcss:
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:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
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```python
with open("somefile") as file_in:
    for raw_line in file_in:
        ...
```

READING ONE LINE AT A TIME

```python
with open("somefile") as file_in:
    for raw_line in file_in:
        ...
```

READING ONE LINE AT A TIME

```python
with open("somefile") as file_in:
    for raw_line in file_in:
        ...
```

READING ONE LINE AT A TIME

```python
with open("somefile") as file_in:
    for raw_line in file_in:
        ...
```

READING ENTIRE FILE INTO STRING

```
with open("somefile") as file_in:
    contents = file_in.read()
```

READING FILE INTO LIST OF STRINGS (WITH EOL)

```
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:navigation: :revealjs_hash: true :customcss:
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:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v
```

all_lines with EOL

| | | | | \n | | | | | \n | | | | \n | | | \n |

```python
with open("somefile") as file_in:
    all_lines = file_in.readlines()
```

READING FILE INTO LIST OF STRINGS (WITHOUT EOL)

```
with open("somefile") as file_in:
    all_lines = file_in.read().splitlines()
```

str TO bytes

"72\u00B0"

str

.encode()

bytes

| 7 | 2 | ° | |

| 55 | 50 | 194 | 176 | UTF-8

bytes TO str

b"72\xc2\xb0"

bytes

| 55 | 50 | 194 | 176 | UTF-8 |

.decode()

str

| 7 | 2 | o |

LISTS VS TUPLES

Lists	Tuples
Dynamic array	Collection of related fields
Mutable/unhashable	Immutable/hashable
Position doesn't matter	Position matters
Use case: iterating	Use case: indexing or unpacking

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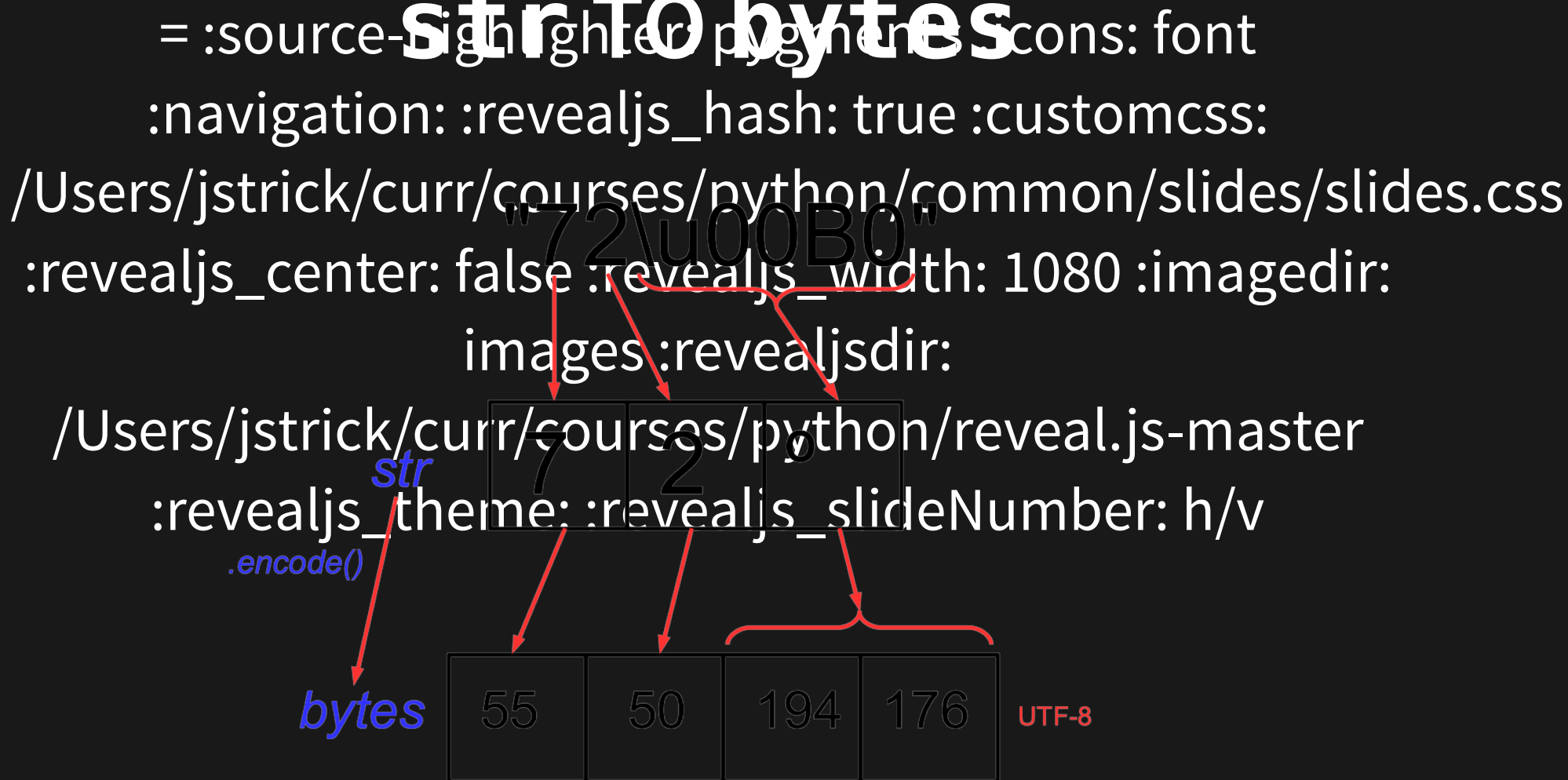:navigation: :revealjs_hash: true :customcss:
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TUPLES ARE JUST READ-ONLY LISTS

TUPLE ALTERNATIVES

- Standard library
  - namedtuple
  - dataclass
- Third-party
  - attrs
  - Pydantic

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SORTING

Numbers

Strings

"$C_1C_2C_3$", "$C_1C_2C_3$", "$C_1C_2C_3$"

Nested iterables

```
[Obj₁, Obj₂, Obj₃], [Obj₁, Obj₂,
Obj₃],
```

Dictionary elements

(*key*, *value*), (*key*, *value*), (*key*,

SEQUENCE COMPREHENSIONS

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- list comprehension

- generator expression

```
(EXPR for VAR ... in ITERABLE if CONDITION)
```

MAPPING COMPREHENSIONS

- list comprehension

`{EXPR for VAR ... in ITERABLE if CONDITION}`

- dict comprehension

`{KEY:VALUE for VAR ... in ITERABLE if CONDITION}`

- set comprehension

`{EXPR for VAR ... in ITERABLE if CONDITION}`

ITERABLES

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IN MEMORY!

VIRTUAL!

Iterables

Containers (AKA collections)

Iterators

Sequences
str
bytes
list
tuple
collections.namedtuple
range()

returned by
sorted()
list comprehension
str.split()
etc.

Mappings

dict
    collections.defaultdict
    collections.Counter
set
frozenset

returned by
dict comprehension
set comprehension
etc.

returned by
open()
reversed()
enumerate()
zip()
itertools.groupby()
itertools.chain()
itertools.zip_longest()
iterator class
generator expression
generator function
etc.

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CONTAINERS

- All elements in memory

  - Can be indexed with [ ]

- Have a length

BUILTIN CONTAINERS

Sequences

Mapping types

list

dict

tuple

set

string

frozenset

bytes

range

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ITERATORS

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- Virtual (no memory used for data)

- Lazy evaluation (JIT)

- Cannot be indexed with [ ]

- Do not have a length

- One-time-use

ITERATORS RETURNED BY

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images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
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- open()
- enumerate()
- dict.items()
- zip()
- reversed()
- *generator expression or function*
- *iterator class*

ITERATORS

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Iterables

Container

Generator expression

Generator function

Iterator class

iter()

iterator

next()

for ...

FUNCTION PARAMETERS

POSITIONAL   NAMED

POSITIONAL-
ONLY   REQUIRED   REQUIRED — OPTIONAL
            (NAME OPTIONAL)

def func(p1, /, p2, p3, *p4, p5, p6, **p7):

pass

AKA Keyword-Only

FUNCTION PARAMETERS

POSITIONAL   NAMED

POSITIONAL-ONLY   REQUIRED (NAME OPTIONAL)   REQUIRED   OPTIONAL

```
def func(p1, /, p2, p3, *, p5, p6, **p7):
    pass
```

AKA Keyword-Only

ARGUMENT PASSING

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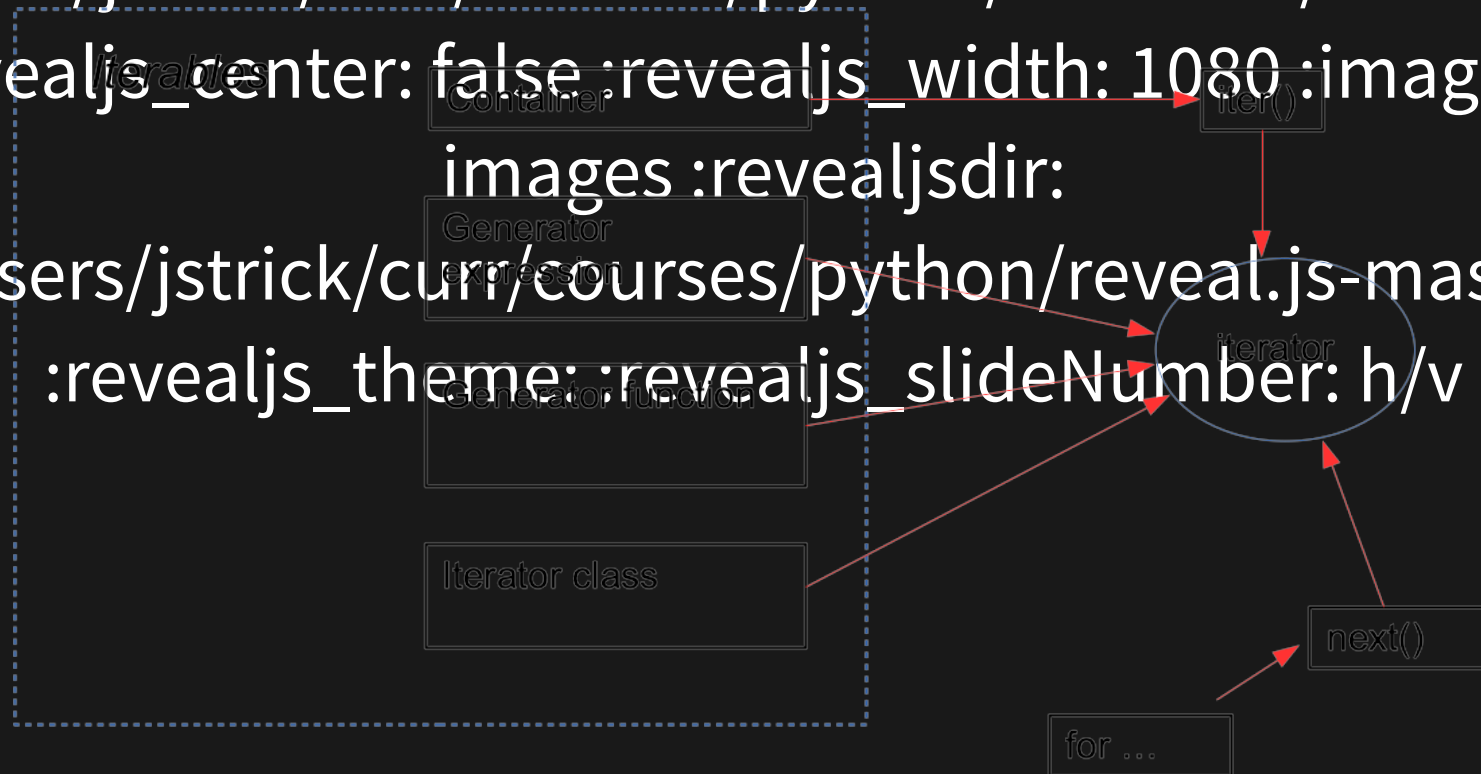:navigation: :revealjs_transition: slide :customcss:
/Users/jstrick/curr/courses/python/common/slides/slides.css
:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

Passing by reference

Passing by value

Passing by sharing

✅

- Read-only reference is passed

- Mutables may be changed via reference

- Immutables may not be changed

```python
def spam(x, y):
    x = 5
    y.append("ham")


foo = 17
bar = ["toast", "jam"]


spam(foo, bar)
```

VARIABLE SCOPE

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builtin
print()
len()

global
COUNT = 0
LIMIT = 1

local
def spam(ham):
    eggs = 5
    print(eggs)
    print(COUNT)

VARIABLE SCOPE

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```
ALPHA = 10

def spam(beta):
    gamma = 20
    print(ALPHA)
    print(beta)
    print(gamma)

spam(1234)
```

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images :revealjsdir:

/Users/jstrick/curr/courses/python/reveal.js-master

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BUILTIN

GLOBAL

LOCAL

COPY/PASTING FUNCTIONS

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def span():
...

a.py

COPY/PASTING FUNCTIONS

COPY/PASTING FUNCTIONS

COPY/PASTING FUNCTIONS

DON'T DO THIS!!

USING A MODULE

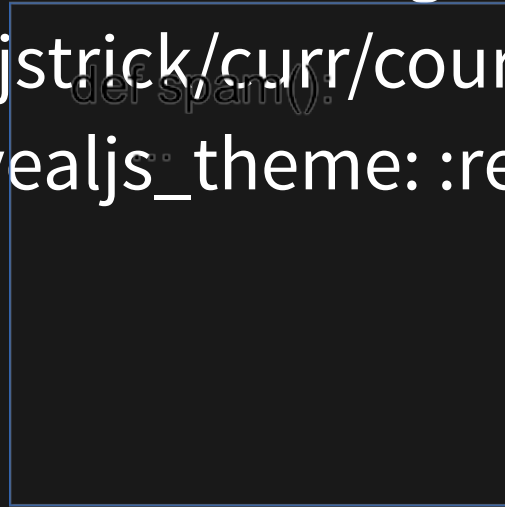= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

def spam():
...

mod.py

```
import mod

mod.spam()
```

a.py

```
import mod

mod.spam()
```

b.py

```
import mod

mod.spam()
```

c.py

A PYTHON CLASS

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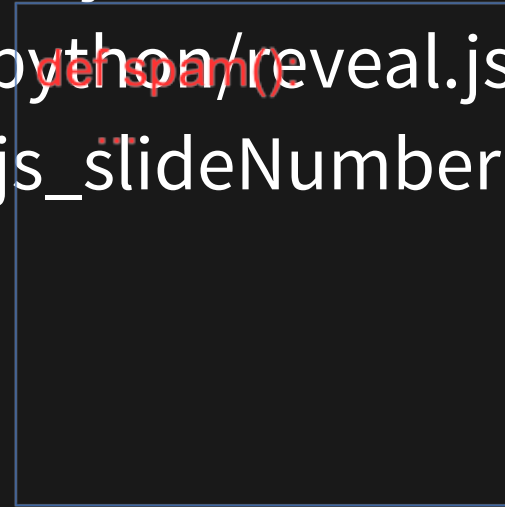:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

DATA (private)
all data variables start with _
available via **self**

State

Public Methods
&
Properties

Private Methods
start with _

Behavior

Called from
class
or instance

API

Called from
self

STR() VS REPR()

str()	repr()
For humans	How to **repr**oduce object
"Informal" form	"Official" form
Info about object	Code to create object
If undefined, uses repr()	If undefined, uses object.__repr__()

DECORATORS SAVE TYPING

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/Users/jstrick/curr/courses/python/common/slides/slides.css

:revealjs_center: false :revealjs_width: 1080 :imagedir:

Instead of

images :revealjsdir:

/Users/jstrick/curr/courses/python/reveal.js-master

:revealjs_theme: :revealjs_slideNumber: h/v

use

```
def spam():
    pass

spam = deco(spam)
```

```
@deco
def spam():
    pass
```
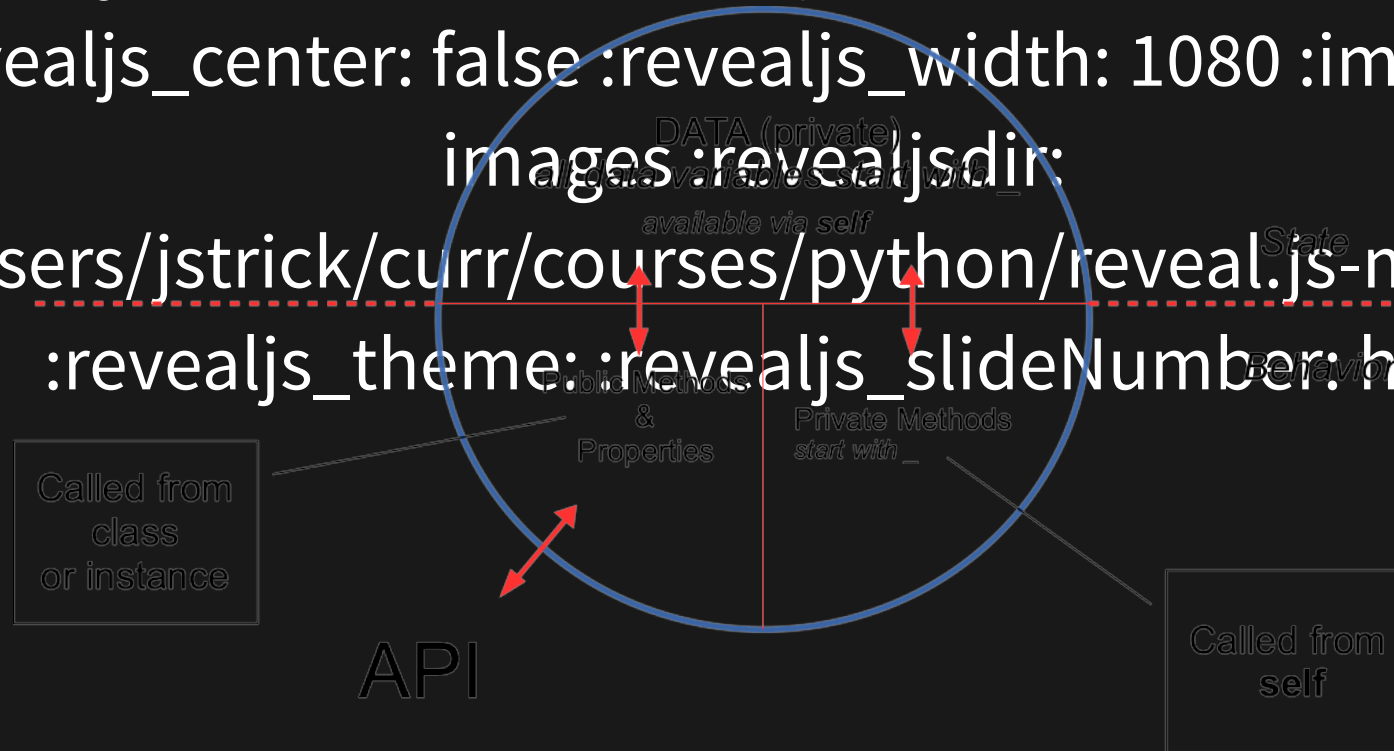
`spam` is only typed once, instead of 3 times

DECORATOR SYNTAX

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/Users/jstrick/curr/courses/python/common/slides/slides.css
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/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

```
@DECORATOR
def some_function():
    pass
```

same as

```
some_function = DECORATOR(some_function)
```

= :source-highlighter: pygments :icons: font
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IMPLEMENTATION

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:revealjs_theme: :revealjs_slideNumber: h/v

```
def DECORATOR(original_function):
    @wraps(original_function)
    def WRAPPER(*args, **kwargs):
        # add code here
        result = original_function(*args, **kwargs)
        return result
    return WRAPPER
```

DECORATOR WITH PARAMETERS

```
@DECORATOR(param, ...)
def some_function():
    pass
```

same as

```
some_function = DECORATOR(param, ...)(some_function)
```

IMPLEMENTATION

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:revealjs_center: false :revealjs_width: 1280 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs :slideNumber: h/v

```
def DECORATOR(param, ...):
    def WRAPPER_FACTORY(original_function):
        @wraps(original_function)
        def WRAPPER(*args, **kwargs):
            # add code here using decorator params
            result = original_function(*args, **kwargs)
            return result
        return WRAPPER
    return WRAPPER_FACTORY
```

PYREVERSE (CLASSES)
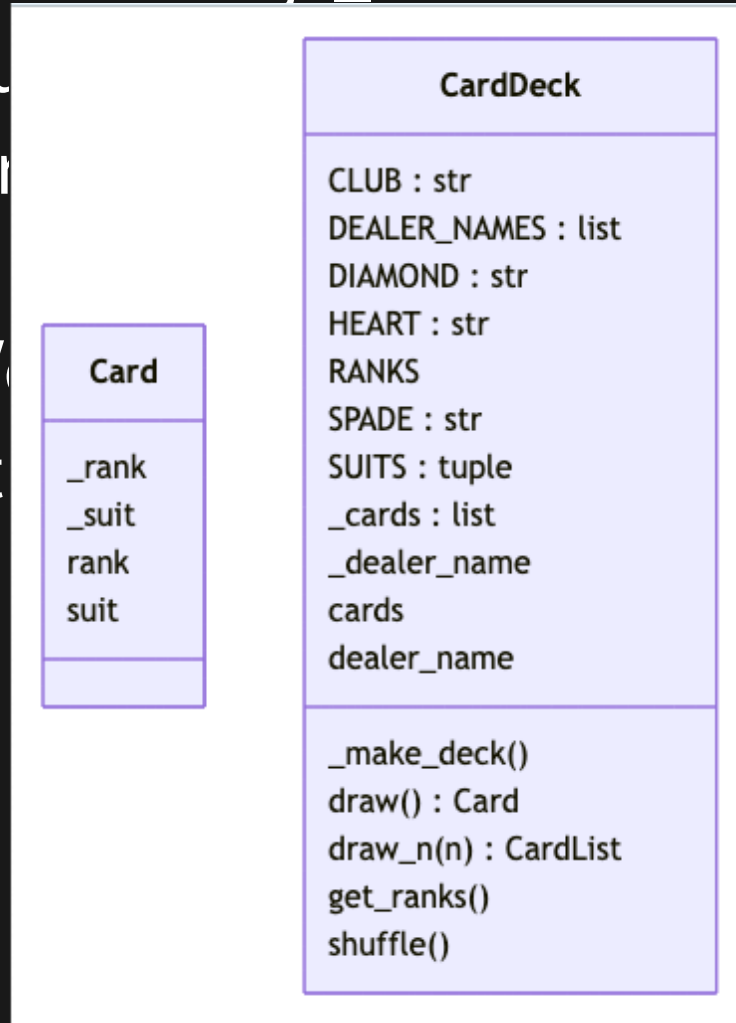
PYREVERSE (PACKAGES)
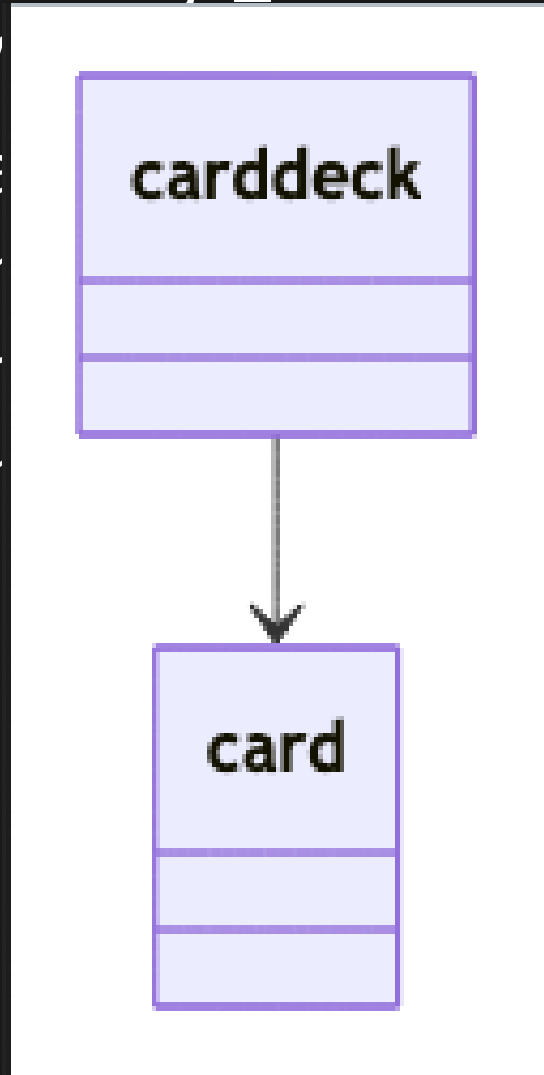
PYTHON DB INTERFACE

= :source-highlighter: pygments :icons: font
:navigation: :revealjs_hash: true :customcss:
/Users/jstrick/curr/courses/python/common/slides/slides.css
:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

YOUR CODE

DB API

DB API

psycopg2

cx_oracle

pymysql

sqlite3

PostgreSQL
LIB

Oracle
LIB

MySQL
LIB

Sqlite3
LIB

PostgreSQL

Oracle

MySQL

Sqlite3

PYTHON DB API

= :source-highlighter: pygments :icons: font
:navigation: :revealjs_hash: true :customcss:
/Users/jstrick/curr/courses/python/common/slides/slides.css
:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

```python
conn = package.connect(server, db, user, password, etc.)
    conn.commit()
    conn.rollback()

cursor = conn.cursor()
    cursor.execute(sql, values)
    cursor.executemany(sql, iterable-of-values)
    cursor.executescript(script)
        cursor.fetchall()
        cursor.fetchone()
        cursor.fetchmany(n)
```

PYQT DESIGNER WORKFLOW

=:source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

Designer

saved as

spam_ui

parameter for

output redirected to
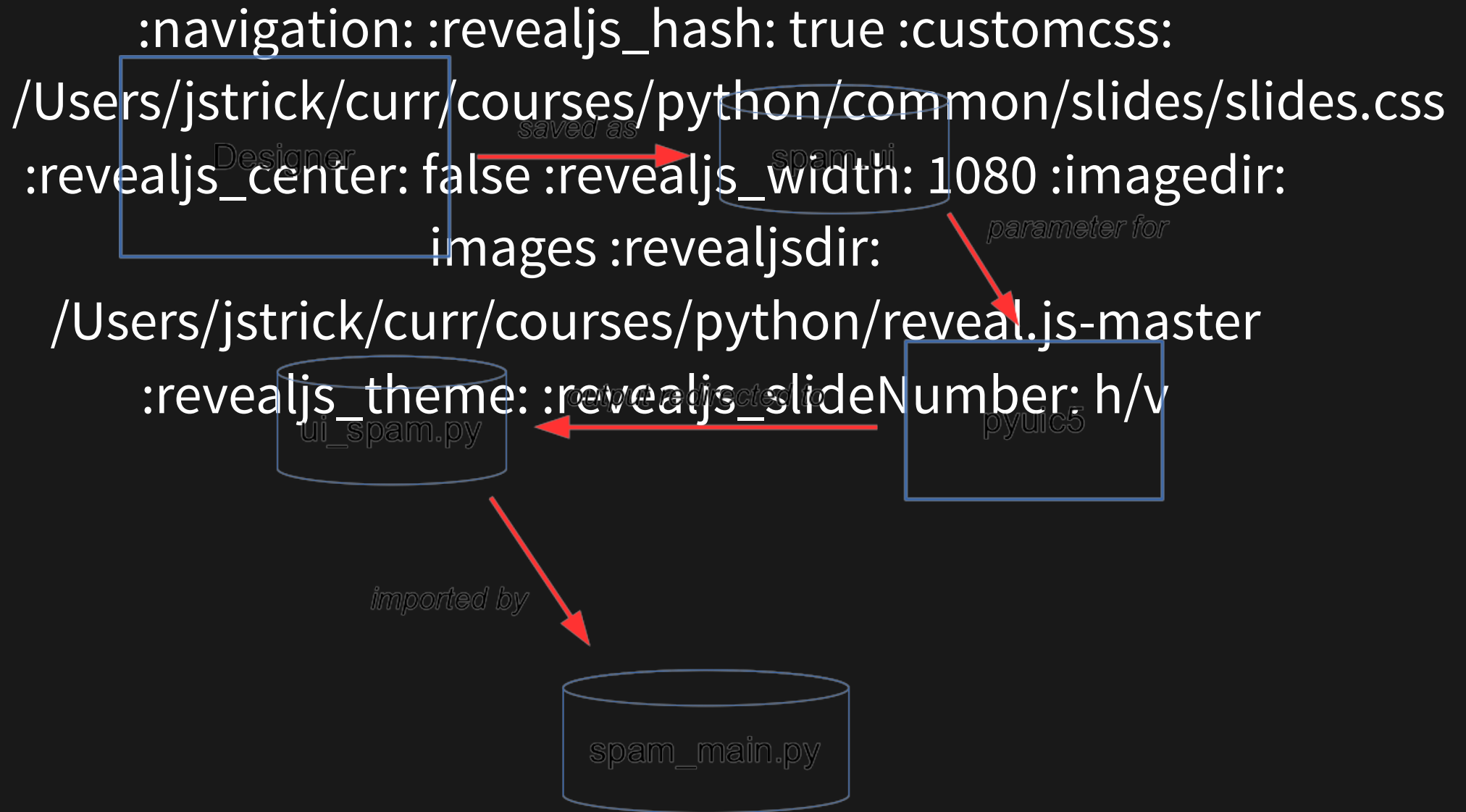
ui_spam.py

pyuic5

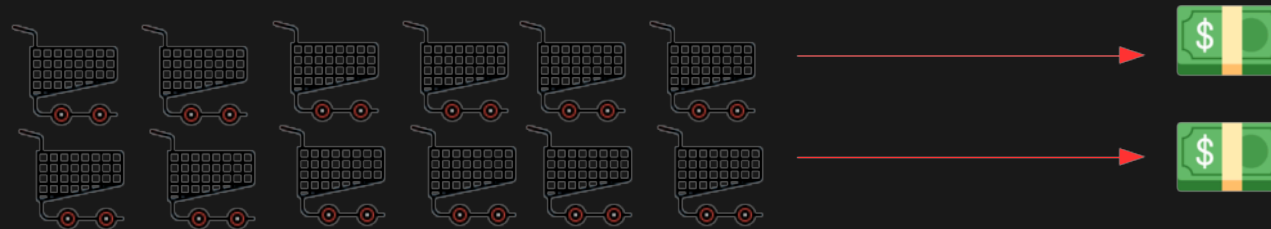*imported by*

spam_main.py

CONCURRENCY

ELEMENTTREE

= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

XML	ElementTree
``<presidents>
<president term="1">
<first>George</first>
<last>Washington</last>
</president>
<president term="2">
<first>John</first>
<last>Adams</last>
</president>
</presidents>```	```Element
tag="presidents"
Element {"term": "1" }
tag="president"
Element
tag="first"
text="George"
Element
tag="last"
text="Washington"
Element {"term": "2" }
tag="president"
Element
tag="first"
text="John"
Element
tag="last"
text="Adams"```

FUNCTION PARAMETERS

POSITIONAL

NAMED

REQUIRED

OPTIONAL

REQUIRED

OPTIONAL

```
def func(p1, p2, *p3, p4, p5, **p6):
    pass
```

AKA Keyword-Only

FUNCTION PARAMETERS

= :source-highlighter: pygments :icons: font
:navigation: :revealjs_hash: true :customcss:
/Users/jstrick/curr/courses/python/common/slides/slides.css
:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

POSITIONAL

NAMED

REQUIRED

OPTIONAL

REQUIRED

placeholder

```
def func(p1, p2, *, p4, p5, **p6):

    pass
```

CONFIGURING VISUAL STUDIO CODE

Some settings to make programming with Python easier

= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

= :source-highlighter: pygments :icons: font
:navigation: :revealjs_hash: true :customcss:
/Users/jstrick/curr/courses/python/common/slides/slides.css
:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

AUTO-SAVE

- Search for "auto save"
- Set to *after delay*

= :source-highlighter: pygments :icons: font
:navigation: :revealjs_hash: true :customcss:
/Users/jstrick/curr/courses/python/common/slides/slides.css
:revealjs_center: false :revealjs_width: 1080 :imagedir:

LAUNCH FOLDER

images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master

- Search for "execute in" :revealjs_theme: :revealjs_slideNumber: h/v

- Check box for **Python > Terminal: Execute in File Dir**

MINIMAP

= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

- Search for "minimap enabled"

- Uncheck **Editor > Minimap: Enabled**

EDITOR FONT SIZE

= :source-highlighter: pygments :icons: font
:navigation: :revealjs_hash: true :customcss:
/Users/jstrick/curr/courses/python/common/slides/slides.css
:revealjs_center: false :revealjs_width: 1080 :imagedir:
images :revealjsdir:
/Users/jstrick/curr/courses/python/reveal.js-master
:revealjs_theme: :revealjs_slideNumber: h/v

- Search for "editor font size"

- Set **Editor: Font Size** to desired size

= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

TERMINAL FONT SIZE

- Search for "terminal font size"

- Set **Terminal: Font Size** to desired size

= :source-highlighter: pygments :icons: font :navigation: :revealjs_hash: true :customcss: /Users/jstrick/curr/courses/python/common/slides/slides.css :revealjs_center: false :revealjs_width: 1080 :imagedir: images :revealjsdir: /Users/jstrick/curr/courses/python/reveal.js-master :revealjs_theme: :revealjs_slideNumber: h/v

THEMES

- Got to **File > Preferences > Theme > Color Theme**

- Select new theme as desired