

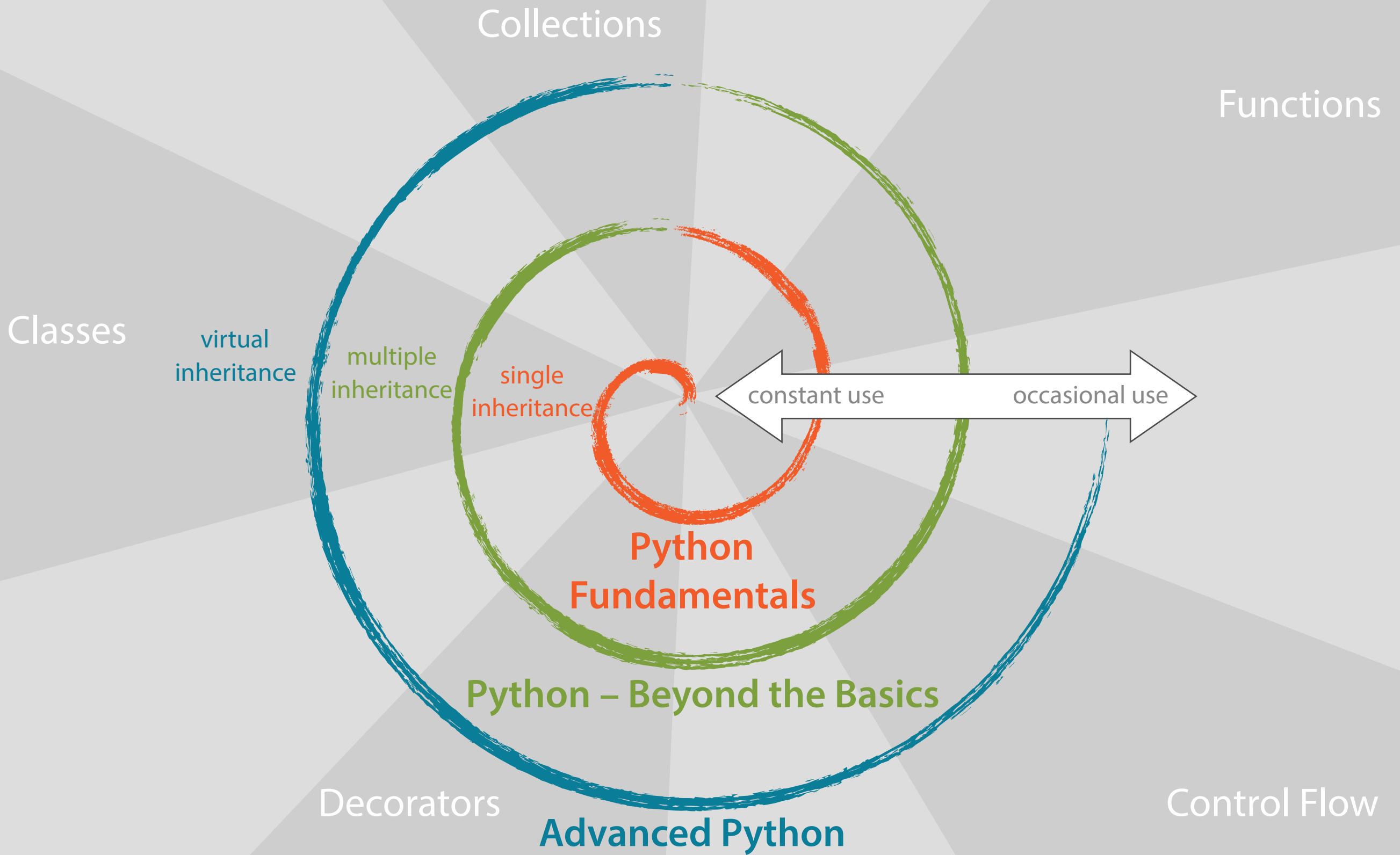




Advanced Python

Python – Beyond the Basics

Python Fundamentals



duck typing

comprehensions

classes

REPL

packaging

modules



pythonTM

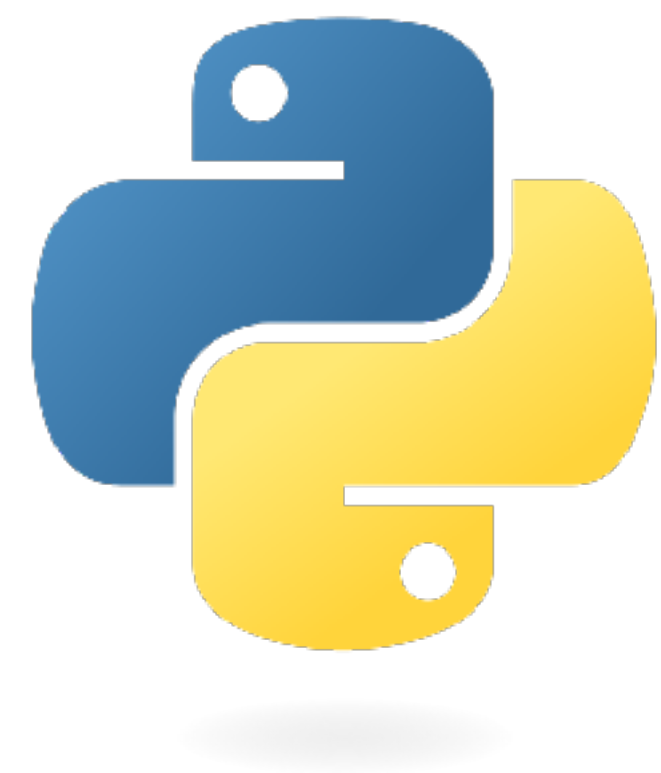
exceptions

resources

standard library

iteration

collections



pythonTM

Expressive Code

```
def fetch_words(url):  
    """Fetch a list of words from a URL."""  
    urlopen(url) as story:  
        story_words = []  
        for line in story:  
            line_words = line.split()  
            for word in line_words:  
                story_words.append(word)  
    return story_words
```

Powerful

Productive Experience



python™



python

for web
development

django



Pyramid™



for science





python for cloud configuration

Boto3 for



ANSIBLE

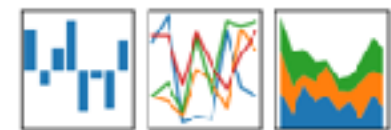


Microsoft Azure
SDK for Python



python for data analytics

pandas
 $y_t = \beta' x_t + \mu_t + \epsilon_t$



matplotlib



Bokeh







Quickly

Safely

Efficiently

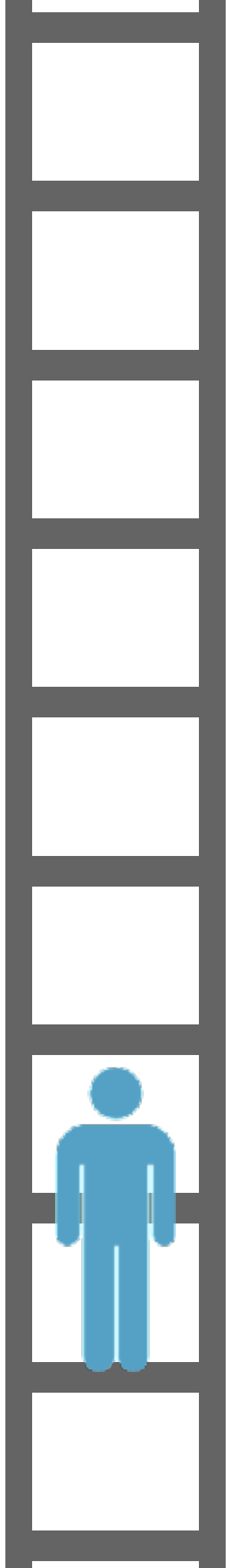


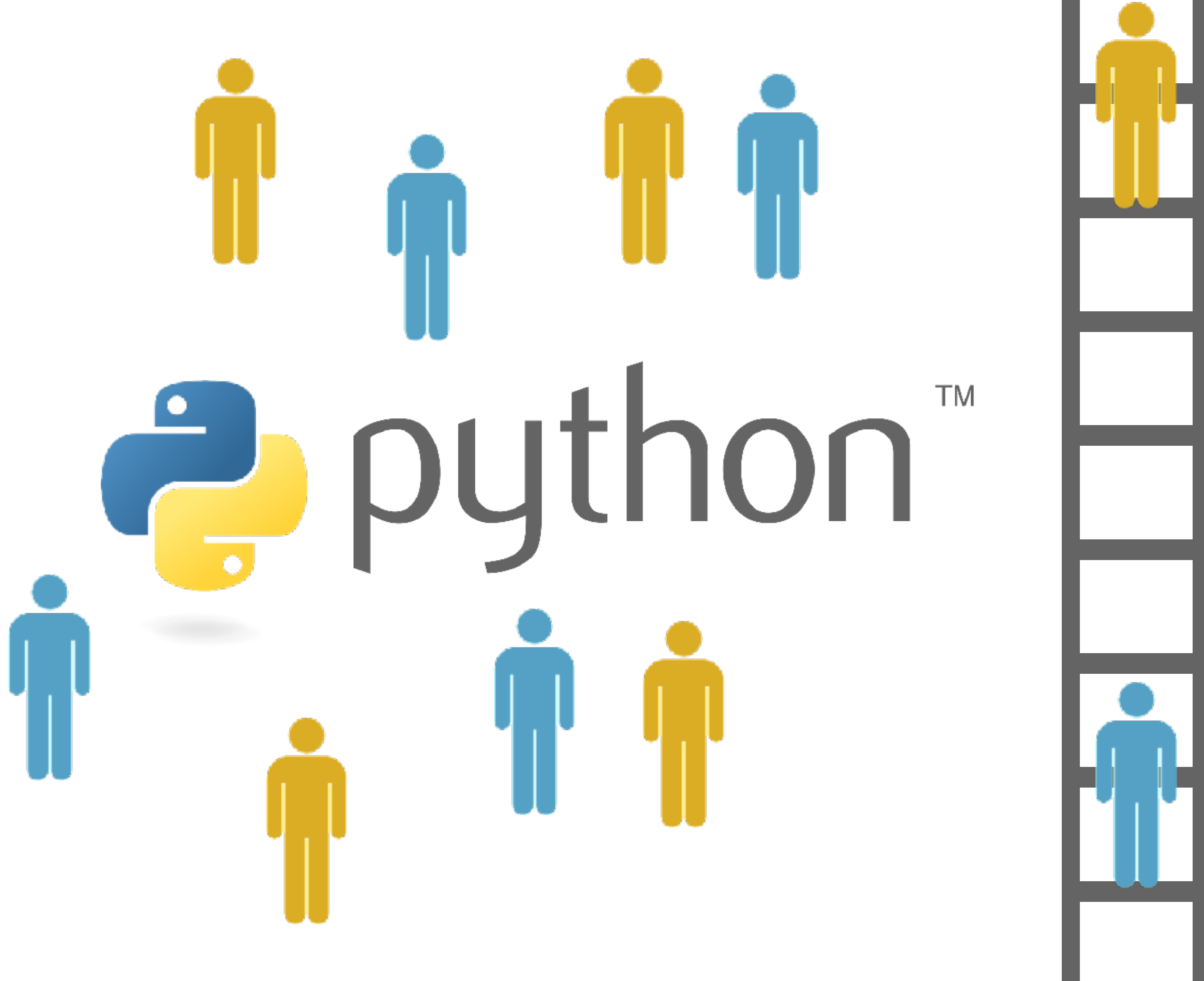












FLIND!

installation

language elements

features

idiomatic usage

standard library

Advanced Python

example-driven

Python – Beyond the Basics

Getting
Started

Strings &
Collections

Modularity

Built-in
Types / The
Object
Model

Collections

Handling
Exceptions

Comprehensions
Iterables and
Generators

Classes

Managing
Files and
Resources

Shipping
Working
Code

language essentials

consume libraries

construct libraries

deliver code



python?

BDFL



The Netherlands



source: CIA World Factbook



Guido van Rossum

python SOFTWARE
FOUNDATION



Who is using Python?

bitly



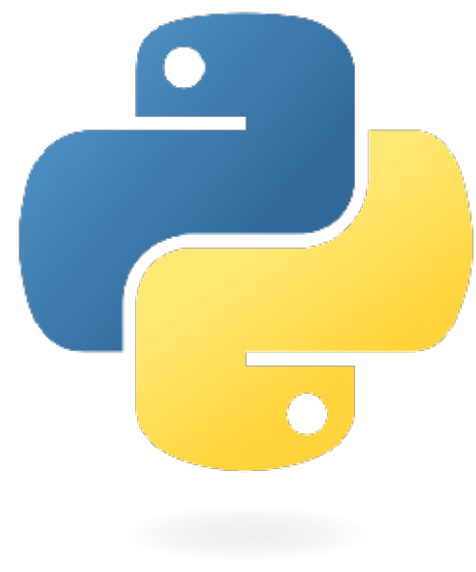
SurveyMonkey™



Google



Quora



pythonTM

- clear
- readable
- expressive

Python Implementations

Python implementation

written in

runs on

CPython



native



JVM

IronPython

C#



RPython

native &
others

Python Release Timeline

2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019

Python 2



Python 3





Batteries Included

Python Standard Library

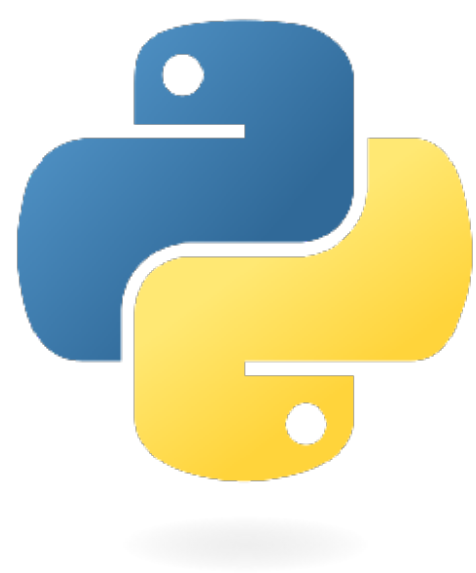
string	numbers	pickle
difflib	fraction	marshal
textwrap	random	configparser
struct	itertools	hashlib
codecs	operator	logging
datetime	functools	time
heapq	filecmp	threading
weakref	tempfile	concurrent
copy	glob	email
pprint	linecache	asyncio

etc., etc., etc!



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Write
Read
Discover
Adventure!



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