

INTRODUCTION TO PYTHON

by

Kiran.V. [@kiranvm]

Nakul.E [@NakulE]



INTRODUCTION TO PYTHON

- About Python
- Python CLI
 - Lists
 - Modules
 - Exception Handling
- Introduction To GUI Programming
 - GUI Frameworks
 - GTK
 - GTK Widgets
 - Glade
- References



Q: What Makes Python Different?

ANS: Lot Of Things



INSTALLATION

- MAC OS and LINUX users, Please Don't Bother.
- Windows Guys, Install it from

www.python.org



ABOUT PYTHON

- Designed By Guido Van Rossum in 1991
- Web Applications, Softwares, Games, Mobiles etc
- Interpreted, Interactive, Object Oriented.
- Portable over Hardware and Software platforms.



LISTS

- ★ Easy to work with arrangement of your data.

- ★ Eg:

```
movies=["if only","hachiko","the prestige"]
```

The keyword "for" indicates the start of the loop and comes before the target identifier.

for

target identifier

The keyword "in" separates the target identifier from your list.

in

list

A colon ":" follows your list name and indicates the start of your list-processing code.

:

list-processing code

The list-processing code MUST be indented under the for loop.

When you use "while",
you have to worry about
"state information,"
which requires you
to employ a counting
identifier.

```
count = 0
while count < len(movies):
    print(movies[count])
    count = count+1
```



```
for each_item in movies:
    print(each_item)
```

When you use "for", the
Python interpreter
worries about the "state
information" for you.

These while and for statements do the same thing.

FUNCTIONS

def `function name` (`argument(s)`) :

`function code suite`

MODULES

- Modules let you organize your code for optimal sharing.
- Simply a text file containing python code.

```
>>> Import random
```

I'm preloaded with
lots of modules in the
Python Standard Library...
and they are already on your
computer.



If the Standard Library doesn't do
it for you, why not try the Web?
I hear PyPI is where third-party
Python modules hang out.



```
#!/usr/bin/env python
```

```
""" example for using a module """
```

```
Import random
```

```
Print random.randint(1,100)
```

EXCEPTION HANDLING

- Exceptions are Run-time Errors.
- Traceback is python's way of reporting errors.

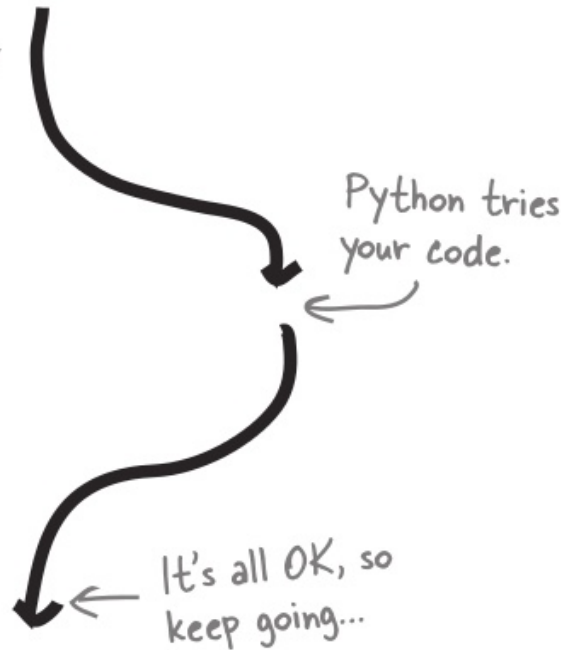
try:

```
your code (which might cause a runtime error)
```

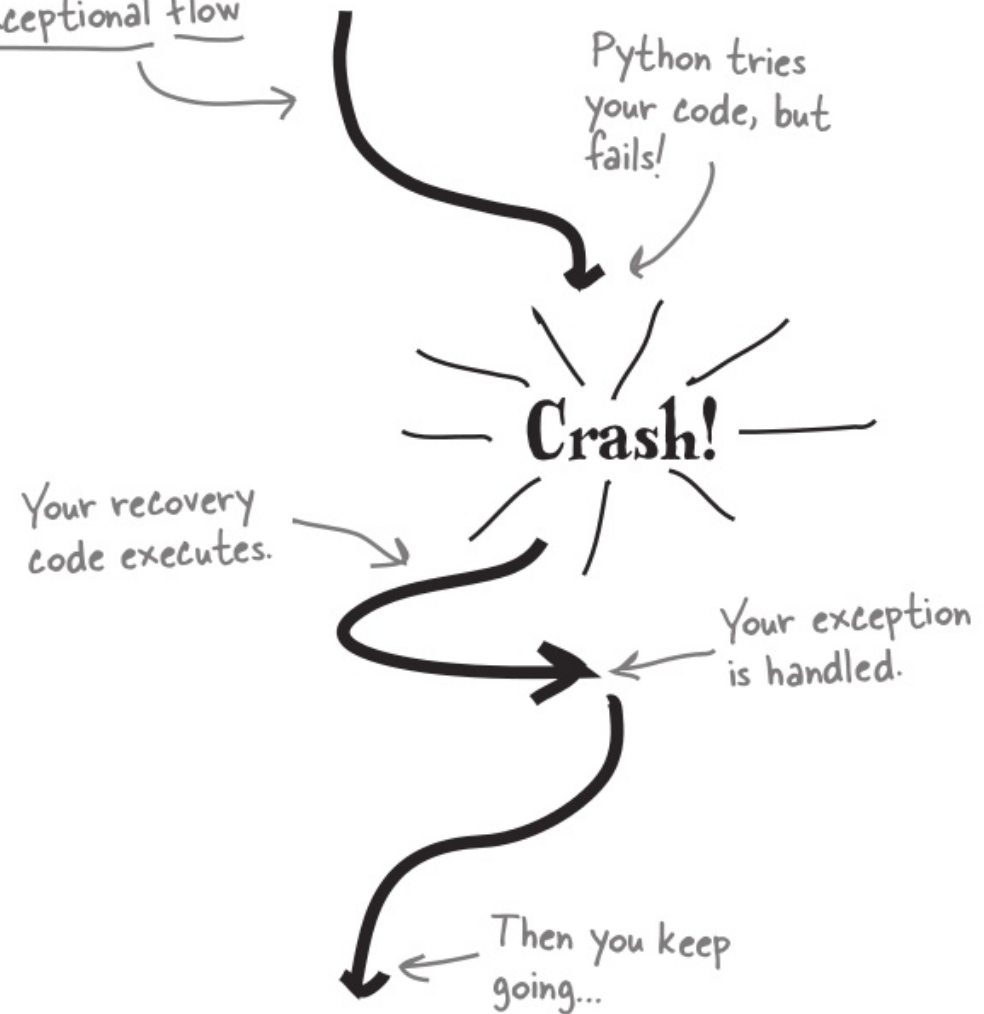
except:

```
your error-recovery code
```

Normal flow



Exceptional flow



CREATIVE THINGS YOU SHOULD TRY!!

- Create a truth and dare game.
- Create your classmates birthday list
- Download entire results of your classmates
- Develop a simple game.

And much more...

THANK YOU !!