



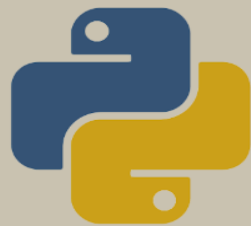
Hello World! In python

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Agenda

- Why python
- Python features
- Data types
- Variables
- Strings
- Data structure
- Loops
- functions
- Modules
- First Code!





Why python

- Easy to learn
- Fast
- Big task with less effort
- Simple
- Elegant





Python features

- Interpreted
- Object oriented, functional
- Portable
- Scalable: doing complex task rather than shell script, eg: searching in regex in file system
- Database: APIs for all database engines

LET'S GO!

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Data types

- Numbers
- String
- List
- Tuple
- Dictionary



Variables

- weak data type
- Naming convention is important!
- name = 'Aya', x = 'Aya' not the same meaning!



String

- `name = 'Python'`
- Has methods:
 - `name.lower(), name.upper()`
 - `name.find('o')`
 - `name.replace('o', 't')`





String

Hello

0	1	2	3	4
-5	-4	-3	-2	-1



String

- `name = 'Hello'`
- `name[1:] => ello`
- `name[:-1] => Hell`
- `name[2:4] => ll`





Data structure

- List []: similar to arrays
- Set {}: no duplicate
- Dict {key:value}: key-value
- Tuple (): for static data



Infinity



Loops

- For

```
for(i in range(10)):
```

```
    Print i
```

- While

```
while(True):
```

```
    Print 'I love python!'
```





Functions

```
>> def print_info():
```

```
    while(True):
```

```
        Print 'i love python!'
```

```
>> print_info()
```



Modules

- Need lib. then import it
- Examples: os module, sys module
- No one script holds all things
- Two ways:
 - `import os`
 - `From os import dir`

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