

# KOLT Python

## Basic Operators & Branching

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# KOLT



1. Recap  
OOOO

# Agenda

## 1. Recap



# Comments

```
# Single line comments start with a '#'
```

```
"""
```

```
Multiline comments can be written between  
three "s and are often used as function  
and module comments.
```

```
"""
```

```
print('Hello, stranger!')
```

Python will basically ignore comments, they are purely written **for humans!**

# Variables

Type	Explanation	Examples
<code>int</code>	represent <b>integers</b>	3, 4, 17, -10
<code>float</code>	represent <b>real numbers</b>	3.0, 1.11, -109.123123
<code>bool</code>	represent <b>boolean</b> truth values	True, False
<code>str</code>	A sequence of characters.	'Hello', '', '3'
<code>NoneType</code>	special and has one value, None	None

- How to create a variable? `variable_name = value`
- How about types? use `type()`
- Can a variable change type? **Yes!** Just assing a new value with any type.
- What if we if want to convert a value between types, i.e, '2' → 2

## Casting

- `int('2') → 2`
- Any possible reasons for casting? -taking user input -reading numbers from a file?
- Can we cast every value to every type? **NO!** try `int('hello')`

## Console I/O(Input/Output)

**`print(*args, sep=' ', end='\n')`**

- Can take arbitrary number of arguments
- Separates elements with space by default
- Adds newline character `'\n'` to end by default

**`input([prompt])`**

- Prints the prompt to Console
- Program is paused until user enters something
- **returns an `str` object!**