Python #4

Truth and Beauty

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Booleans

- **True, False**
- Constant: **None**
- Every object normally evaluates to `True` unless:
  - It is `False`
  - It is `None`
  - It is a number and is 0, 0.0, …
  - It is a string and empty ("")
  - It is a container and is empty ([], (), …)
- Convert to boolean using bool()

Comparisans

- `==`
- `!=`
- `<`
- `>`
- `<=`
- `>=`
- `is`
- `is not`

Logical operators

- not
- and
- or

Keep in mind...

- Default operator precedence (and associativity)
  - ()
  - **
  - - (negation)
  - *, /, //, %
  - +, -
- Logical short circuit evaluation for `and`, `or`

Conditionals

- `if`
- `else`
- `elif`
- One liners
- Conditional expressions (ternary)
- `pass`

Conditional program flow

```
statements
if <condition>:
    statements
statements
```

```
statements
if <condition>:
    statements
else:
    statements
statements
```

```
if <condition>: statement
```

```
<var> = <val_if_true> if <condition> else <val_if_false>
```

```
statements
if <condition>:
    statements
elif <condition>:
    statements
statements
```

While loop

- Condition
- break
- continue

While loop program flow

```
statements
while <condition>:
    statements
statements
```

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