

code\_in\_place\_2021

# Section 02



# Icebreaker

- How have you enjoyed Code in Place so far?
- What are some frustrations that you faced whilst coding?
- What are the biggest mysteries for you when it comes to coding?



# Shared Agreements

- ✓ **Use professional, courteous, and thoughtful language**

Be mindful of your peers when speaking and asking questions

- ✓ **Assume your peers have good intention**

Even if their words or actions cause concern, remember that we're all learning together.

- ✓ **Ask questions**

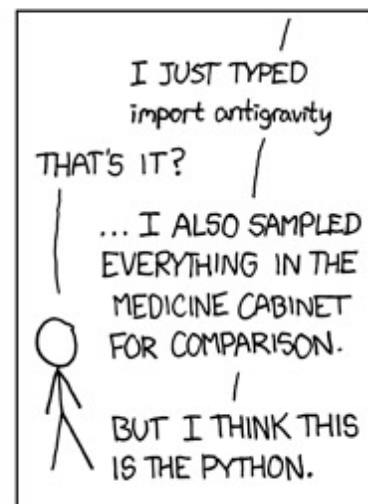
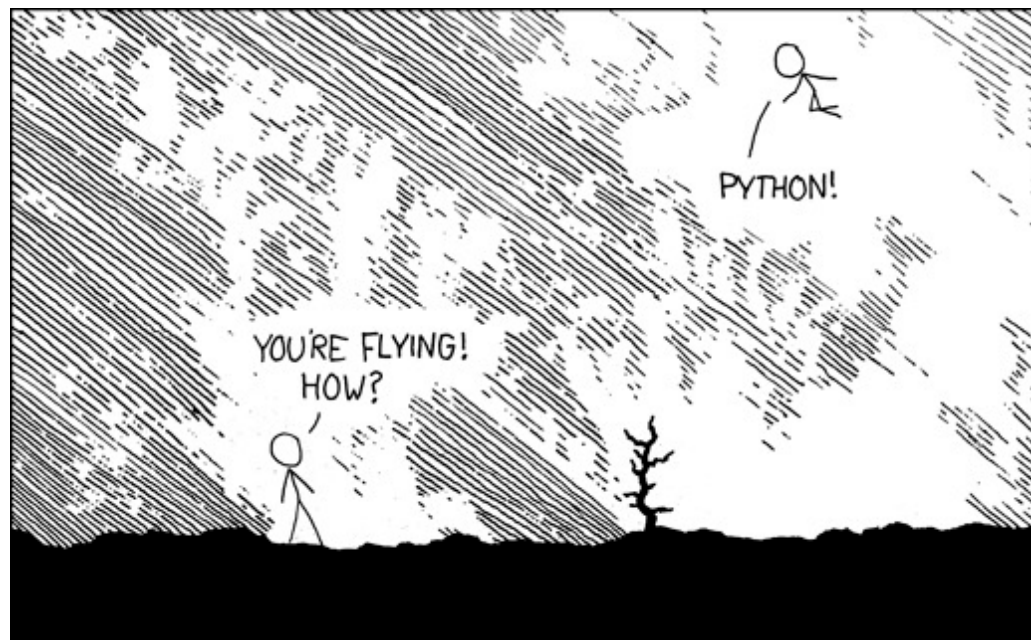
There is NO silly question



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# Review concepts

- Variables
- Expressions



# Variables

```
current_year = 2021
```

```
bitcoin_price_usd = 53408.10
```

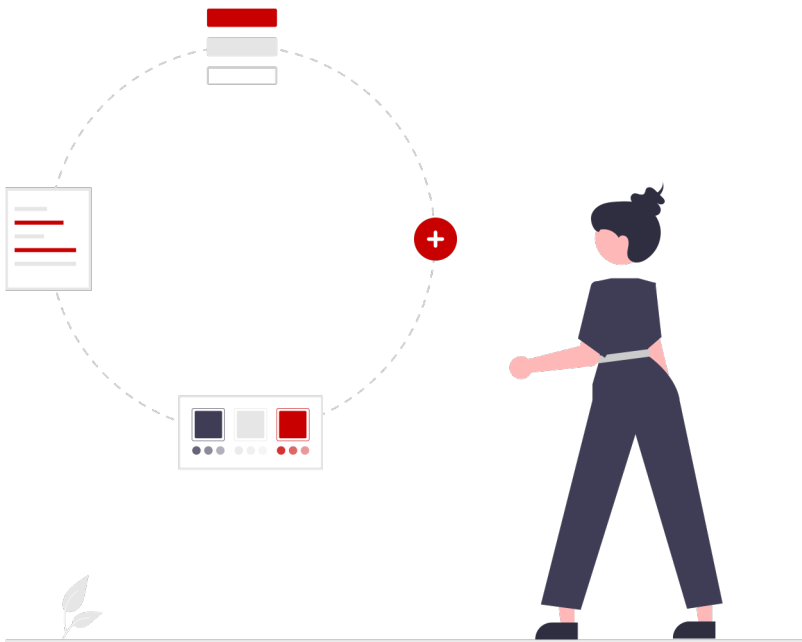
```
rocket = "Atlas V"
```

```
is_today_thursday = True
```

```
GRAVITY = 9.8
```



# Types



**Integer** (*int*)

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

**Floating-point numbers** (*float*)

-1.99, -1.0, -0.22, 0.0, 0.69, 11.2

**String** (*str*)

"hello world!", "code in place 2021"

**Boolean** (*bool*)

True, False

## **#declare variables**

```
text_as_string = "code in place"
```

```
int = 2021
```

```
float = 99.99
```

## **#type casting**

```
int(text_as_string)
```

```
float(int)
```

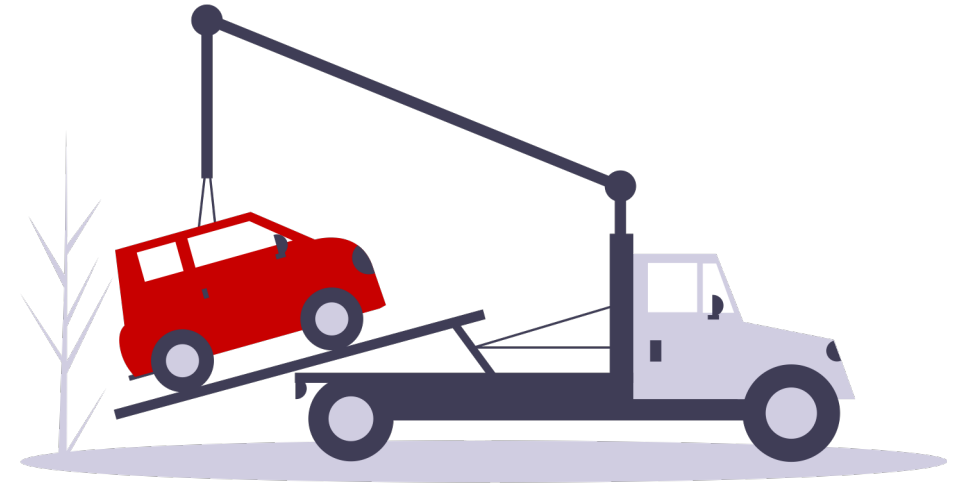
```
str(float)
```

```
#ERROR
```

```
#2021.0
```

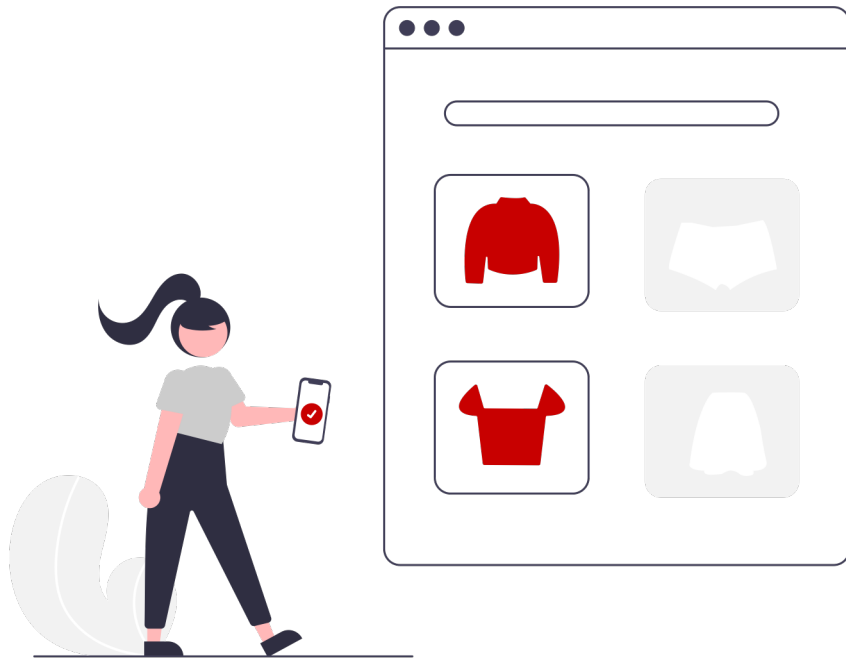
```
#99.99
```

# **Casting**





# Expressions



```
SALES_TAX = 0.0712
```

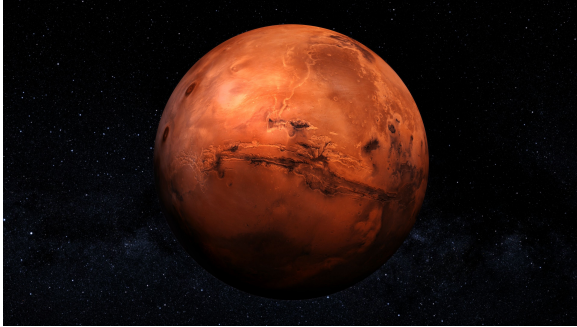
```
SHIPPING = 7.99
```

```
total_before_tax = 1299.00
```

```
total = total_before_tax +  
(total_before_tax * SALES_TAX) +  
SHIPPING
```

```
print(total) #1399.48
```

## Mars Weight



## 8-ball



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# Comparison Operators

```
num = 9
```

```
print(num == 9)    #True
```

```
print(num == "9")  #False
```

```
print(9 == "9")    #False
```



# Story time!

- Computers and technology are everywhere
- Logical problem solving
- Imagination
- Inspiration from other activities

