Functions

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Overview

Structure of Functions

Anonymous Functions

Higher Order Functions

```
def functionName(argument: Type): ReturnType = {body}
```

Function Definition

Anonymous Functions

Also known as Function Literals

Do not have a name for the Function

(argument1: Type, argument2: Type) => body

Anonymous Function Structure

How to remember syntax?

```
def product(a: Int, b: Int) = a * b
```

How to remember syntax?

product(a: Int, b: Int) = a * b

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```
(a: Int, b: Int) = a * b
```

How to remember syntax?

(a: Int, b: Int) => a * b

_____   _____

Inputs   **Output**

def filter(p: (A) ⇒ Boolean): List[A]

Scala' List *filter* API

Use of underscore

fruitBasket.filter(fruit => fruit.name == "apple")

Use of underscore

`fruitBasket.filter(_.name == "apple")`

underscore uses the argument on left just once

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