



CLEAN CODE !!!!!

1- Meaning full names



Naming convention



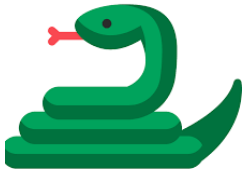
CAMEL
CASE

thisIsAnExample



DROMEDARY
CASE

ThisIsAnExample



SNAKE
CASE

this_is_an_example



KEBAB
CASE

this-is-an-example

Naming convention



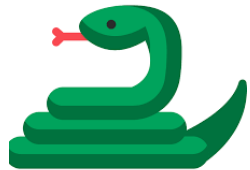
CAMEL
CASE

thisIsAnExample

JAVA

PHP

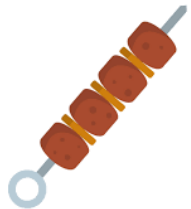
JS



SNAKE
CASE

this_is_an_example

PYTHON



KEBAB
CASE

this-is-an-example

Naming convention

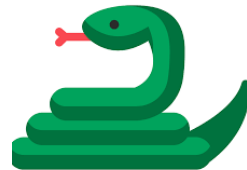
WhatIsThisOne

A



CAMEL
CASE

B



SNAKE
CASE

C



KEBAB
CASE

D



DROMEDARY
CASE

E

NONE
OF
THEM

Naming convention

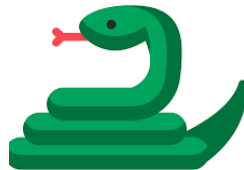
WhatIsThisOne

A



CAMEL
CASE

B



SNAKE
CASE

C



KEBAB
CASE

D



DROMEDARY
CASE

E

NONE
OF
THEM

Naming convention

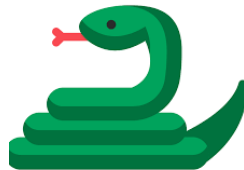
And_this_one

A



CAMEL
CASE

B



SNAKE
CASE

C



KEBAB
CASE

D



DROMEDARY
CASE

E

NONE
OF
THEM

Naming convention

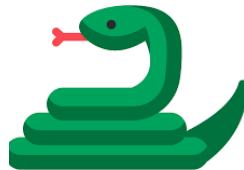
And_this_one

A



CAMEL
CASE

B



SNAKE
CASE

C



KEBAB
CASE

D



DROMEDARY
CASE

E

NONE
OF
THEM

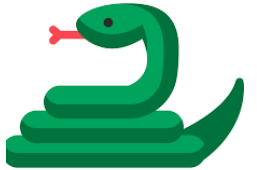
Usually

methodsAreNamedWithCamelCase

variablesAreAlsoCamelCase



CONSTANTS_ARE_IN_ALL_CAPS_WITH_UNDERSCORES



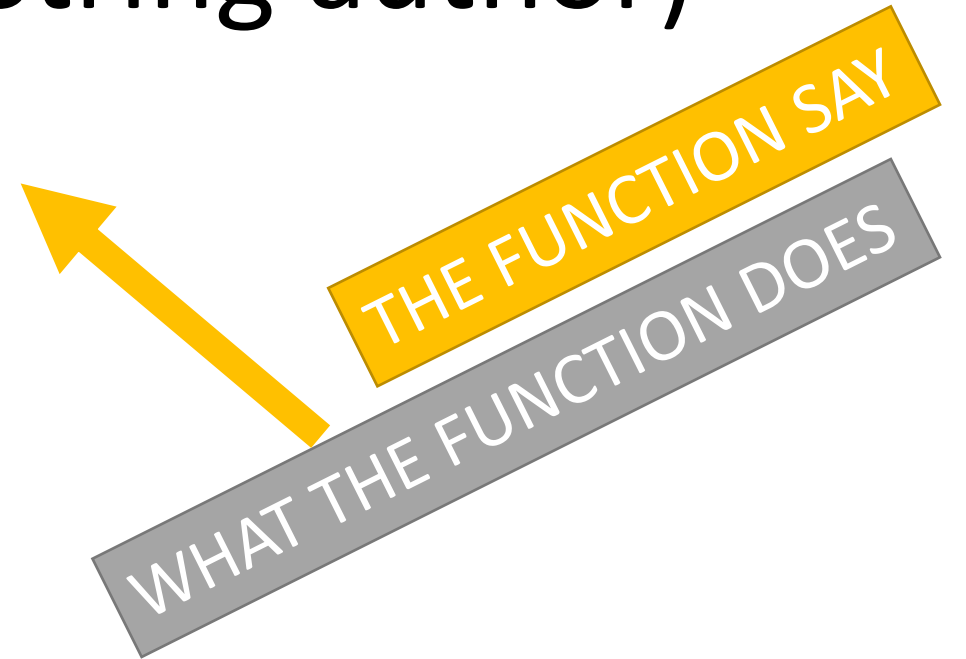
ClassesAreNamedWithDromedaryCase



packages.are.lowercase.and.separated.by.dots

What does this function do

getBooksFromAuthor(String author)



How to write a function name ?

getBooksFromAuthor(String author)

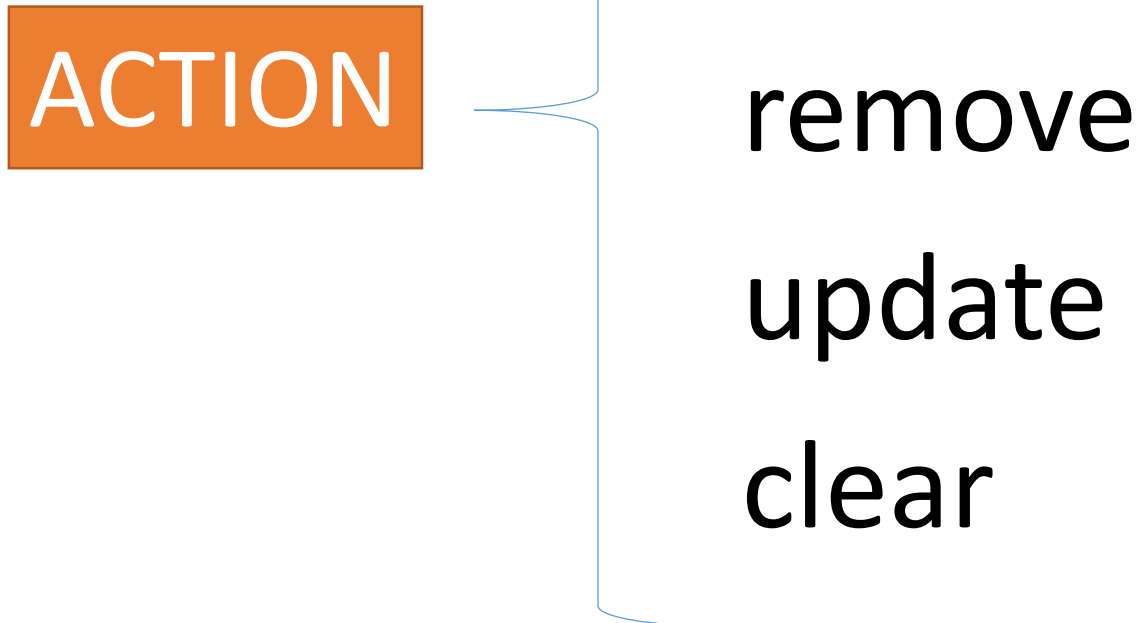


ACTION

OBJECT

ADDITIONAL INFO

How to write a function name ?



What would be a better name for this function

```
function xxxxx(n:number) : boolean {  
    return n %2 == 0;  
}
```

A

even

B

getEven

C

isEven

D

isEvenNumber

What would be a better name for this function

```
function xxxxx(n:number) : boolean {  
    return n % 2 == 0;  
}
```

A

even

B

getEven

C

isEven

D

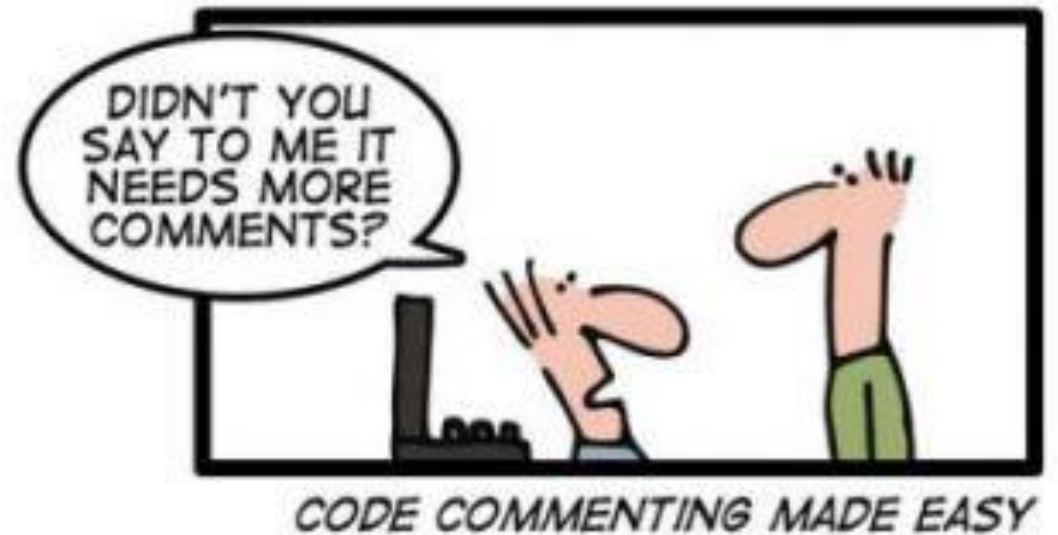
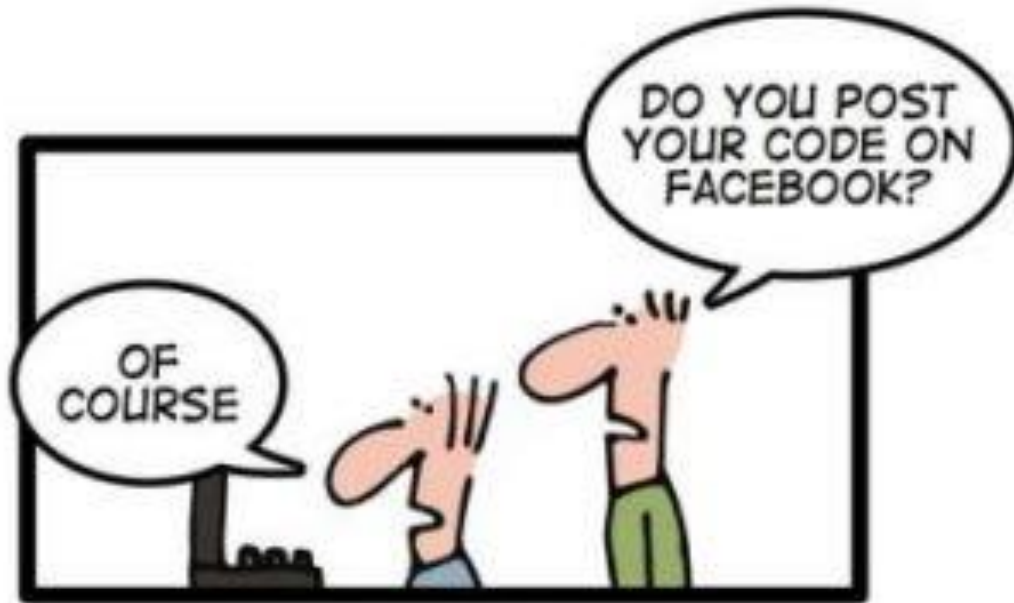
isEvenNumber



20 min

ACTIVITY-1 !!

2 - Code commenting





```
function xxx(numbers: number[]): boolean {  
  // if-else statement  
  if (numbers.length == 0) {  
    return true;  
  } else {  
    return false;  
  }  
}
```

A Good comment

B Bad comment



```
function xxx(numbers: number[]): boolean {  
  // if-else statement  
  if (numbers.length == 0) {  
    return true;  
  } else {  
    return false;  
  }  
}
```

A Good comment

B Bad comment

When to comment ?

To **divide problems** into sub problems

```
// 1. Get all list students scores
```

```
// 2. Compute the sum of students scores
```

```
// 3. Return true if sum is greater than 50
```

To **specify the meaning** of a class/function

```
/**
 * Tell whether or not the number is positive
 * @param the number
 * @return true if positive (or 0), false otherwise
 */
function isPositive(n: number): boolean {
    return n >= 0;
}
```

A method comment

```
/**
 * Tell whether or not the given number is in the range
 * @param num, number
 * @param min, the min range
 * @param max, the max range
 * @return true if the number is in the range
 */
function isInRange(num: number, min:number, max:number): boolean
```

} Short description

} Parameters definitions

} Return definitions



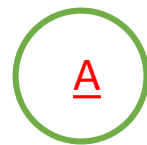
```
function xxx(numbers: number[]): boolean {  
  // Return true if the array contains at least a number  
  if (numbers.length > 0) {  
    return true;  
  } else {  
    return false;  
  }  
}
```

A Good comment

B Bad comment



```
function xxx(numbers: number[]): boolean {  
  // Return true if the array contains at least a number  
  if (numbers.length > 0) {  
    return true;  
  } else {  
    return false;  
  }  
}
```



Good comment

B

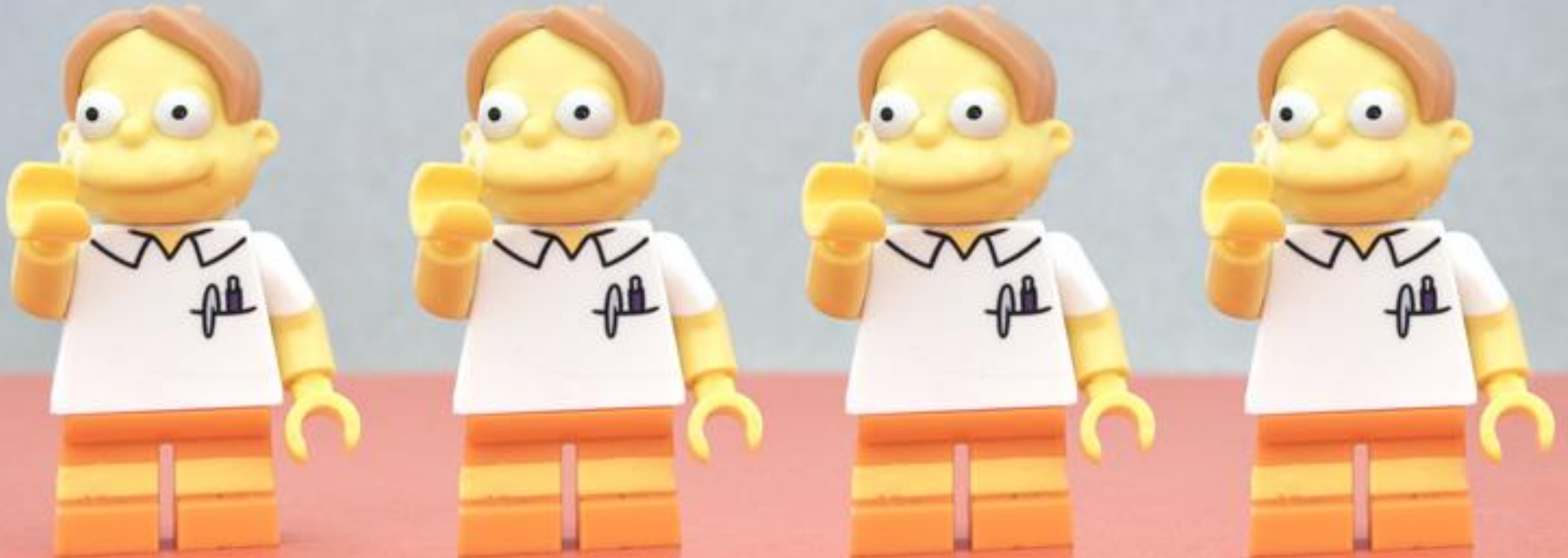
Bad comment



20 min

ACTIVITY-2 !!

3 – Do not **repeat** yourself (DRY)




```
// count the number of mango
let fruits = ["banana", "banana", "apple", "banana", "mango", "mango"];
let numberOfMango = 0;
for (let fruit of fruits) {
  if (fruit === "mango") {
    numberOfMango++;
  }
}

// count the number of carrot
let vegetables = ["tomato", "potato", "carrot", "tomato", "potato", "tomato"];
let numberOfCarrot = 0;
for (let vegetable of vegetables) {
  if (vegetable === "carrot") {
    numberOfCarrot++;
  }
}

// count the number of rady
let teachers = ["rady", "rith", "rith", "rady", "ronan", "channak"];
let numberOfRady = 0;
for (let teacher of teachers) {
  if (teacher == "rady") {
    numberOfRady++;
  }
}
```

Does this code
contain
repetition ?



10 min

Open ACTIVITY-3- DRY.ts and try to change this code to **avoid repetition**

TIPS:

You can use a function !!

```
// count the number of mango
let fruits = ["banana", "banana", "apple", "banana", "mango", "mango"];
let numberOfMango = 0;
for (let fruit of fruits) {
  if (fruit === "mango") {
    numberOfMango++;
  }
}

// count the number of carrot
let vegetables = ["tomato", "potato", "carrot", "tomato", "potato", "tomato"];
let numberOfCarrot = 0;
for (let vegetable of vegetables) {
  if (vegetable === "carrot") {
    numberOfCarrot++;
  }
}

// count the number of rady
let teachers = ["rady", "rith", "rith", "rady", "ronan", "channak"];
let numberOfRady = 0;
for (let teacher of teachers) {
  if (teacher === "rady") {
    numberOfRady++;
  }
}
```



20 min

ACTIVITY-3 !!



TO SUM UP

- ✓ Define **meaningful** variables , functions and class **names**
- ✓ **Comment** your code
- ✓ Do **not repeat yourself** (DRY)