

JS LOOPS

WHAT

Sometimes is needed to execute the **same block of code multiple times**. Loops execute a block of code a number of times, depending as long as a **specified condition will be true**.

● WHAT

FOR

Loops through the code a **predefined number of times**

● SINTAX

```
for(i = 0; i < numb; i++){  
  // code  
};
```

- Counter - initializes the variable used in the loop
- Condition - defines the condition for executing the code block, so how many times it must be executed
- Increment/decrement - increase/decrease each time after the code block has been executed

● WHEN

When **is known in advance how many times** the code block has to be executed

WHILE

Loops through the code and executes the block of statements, **as long as the condition is true**

```
while (...){  
  // code  
  
  condition to end cicle;  
};
```

It is important to give **instructions to make the condition false** when we want to terminate the loop (otherwise, **loop will be infinite**)

When it is **not known in advance how many times** the code block has to be executed

DO...WHILE

Loops once through the code **and then** will repeat the block of statements, as long as the condition is true

```
do {  
  // code  
}  
while (...);
```

Like While loops, but it checks the condition **only after executing the code block**