Interfaces

Programming - memo

The more **abstract** we write our code, the more often we can **reuse** it. We can focus on **what** we want to achieve without caring about the **how**.

How to create an interface

- We write public interface followed by the name
- Every method will be public, so no need to add the keyword
- We write the method signatures as usual
- Instead of writing the method's body, we place a semicolon
- Remember, we care about the what, not the how

```
public interface Hero {
   String getName();
   void saveTheCity();
}
```

How to use an interface

- We create a class as usual
- We add implements plus the name of the interface
- We write at least the code for the methods that the interface had
- The @Override annotation indicates that we are replacing the method from the interface

```
public class Batman implements Hero {

@Override
public String getName() {
    return "Batman";
}

@Override
public void saveTheCity() {
    // use his brain together with fancy technology
}
}
```

- We create an object from the original class, its implementation
- We reference it with an interface
- We don't need to know who is doing what, or how
- We just need to know that what we want will be done