

Welcome to the CODERS.BAY

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1 Introduction

- Whoami?
- Do we really need code?

2 Coding guidelines

- Coding Style

3 Whats is JAVA?

- This is Java
- JDK and JRE
- Compiling

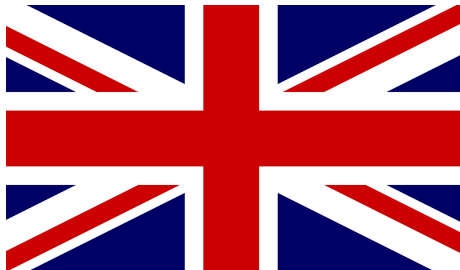
- HTBLA Traun für Informations - und Kommunikationstechnik.
- Webdeveloper und System Administrator 4YOUcard.
- Informatikstudium JKU Linz.

Code is everywhere



Computers on Wheels





- variables, comments and classes **MUST** be named in English

```
private int calc (int x, int y) {  
    return x + y;  
}
```

Egyptian Brackets

```
private int minus (int a, int b)  
{  
    return a - b;  
}
```

Do NOT do this

Comments and Style

```
public class Example{  
    // rectangle  
    private double height = 3.4;  
    private double width = 2.5;  
  
    // PascalCasing & lowerCamelCase  
    private String workshopName= "Roboterbau";  
  
    // constant  
    private static final int WEEKDAYS = 7;  
}
```

- use tabs not whitespaces.
- Camel Casing.
- Classes and Types Pascal Casing.
- Constants upper case.
- do not use underscores TEMP_KELVIN → old style

Martin Fowler said:

"Any fool can write code that a computer can understand.
Good programmers write code that humans can understand."

This is JAVA



This is also JAVA

```
@Override
public boolean equals(Object obj) {
    if (obj instanceof Person) {
        Person other = (Person) obj;
        return this.surName.equals(other.surName)
            && this.firstName.equals(other.firstName);
    }
    return false;
}

@Override
public int compareTo(Person other) {
    int compare = this.surName.compareTo(other.surName);
    if (compare == 0) {
        compare = this.firstName.compareTo(other.firstName);
    }
    return compare;
}
```

- JDK ... Java Development Kit → for developing JAVA applications.
- JRE ... Java Runtime Environment → for running JAVA applications.
- JDK Versions > 8.

The Java Compilation Process

