

Basic Java

#1 HelloWorld

Recap: our goals

Solve simple
coding interview
problems

Try Software
Development

Learn smth
interesting

Remote work

To be or not to
be (in IT)

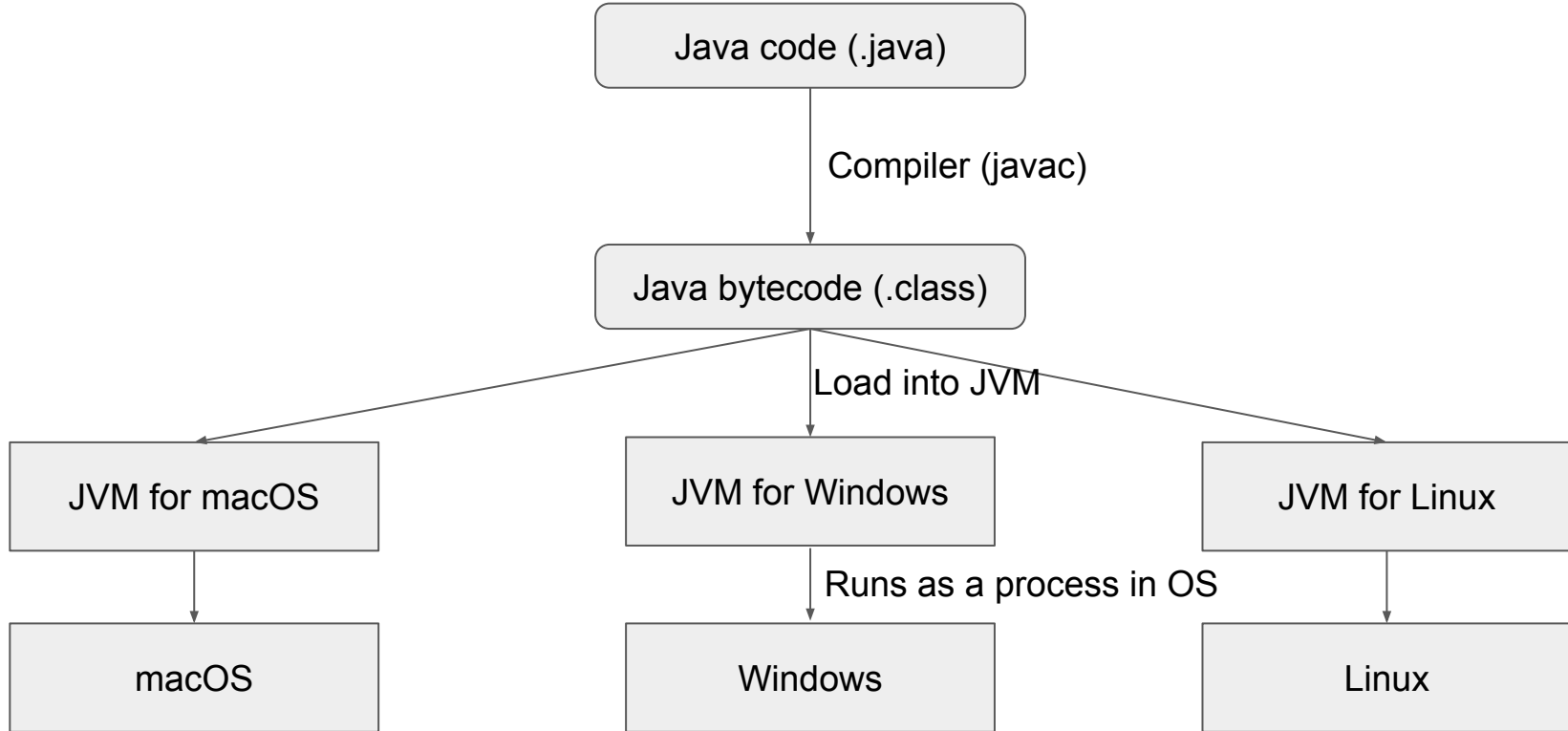
Learn in the
group

Software
Development as
a profession

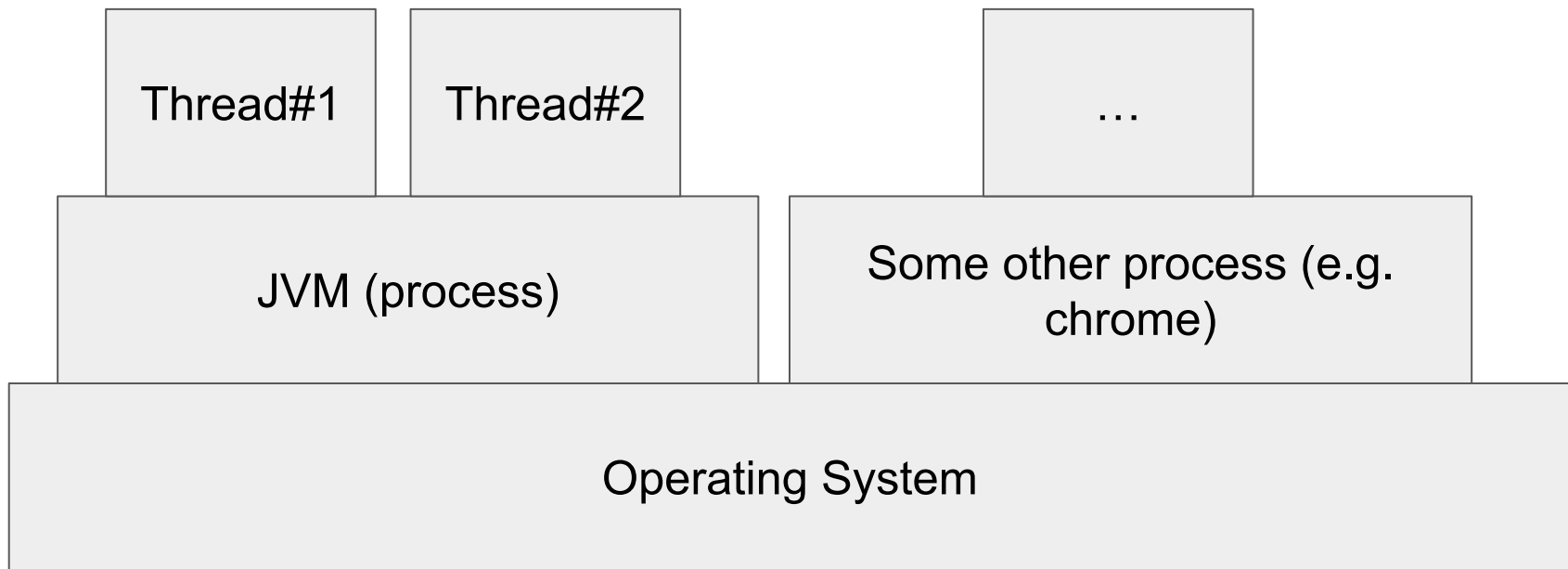
Agenda

- [Course programm](#)
- JVM
- <Break>
- HelloWorld
- Classes, Objects, primitives
- Java Syntax & Codestyle
- <Break>
- Exercises

JVM



JVM



JVM

- Object – Objects have states and behaviors. Example: A dog has states - color, name, breed as well as behavior such as wagging their tail, barking, eating. An object is an instance of a class.
- Class – a class can be defined as a template/blueprint that describes the behavior/state that the object of its type supports.
- Methods – a method is basically a behavior. A class can contain many methods. It is in methods where the logics are written, data is manipulated and all the actions are executed.
- Instance Variables – each object has its unique set of instance variables. An object's state is created by the values assigned to these instance variables.

JVM



Let's try Hello World

Java syntax

Let's check what's in [wiki...](#)

Comments in Java

- Ignored by compiler, i.e. not executed
- Comments are needed to:
 - Document: explain what does the program, how to use etc
 - Explain your decision
 - Temporary remove not needed code

Comments in Java: one line

...

```
int velocity = 5;
```

```
int time = 10
```

```
// based on formula of displacement
```

```
int s = velocity * time;
```

...

Comments in Java: multiple line

```
...
```

```
int velocity = 5;
```

```
int time = 10
```

```
/*
```

```
based on formula of displacement
```

```
we've learned yesterday
```

```
*/
```

```
int s = velocity * time;
```

```
...
```

Comments in Java: javadoc

```
...  
/**  
    * Calculates displacement based on a given parameters  
    */  
public int displacement(int velocity, int time) {  
    return velocity * time;  
}  
...
```

Codestyle

Code style

Let's check what google proposes - [google java code style](#)

Homework