

Juniorprogrammierer.de

Java 0: Getting started

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Agenda

- Get to Know
- My plan for you
- Check for Java
- Your first program I + II
- Online tools
- Homework

Get to know

- Tell me about yourself?
 - What is your most favorite Dino and Sweet?
 - How did you interest in coding start?
 - How much experience do you have?
 - What are your goals?
- Who is Sascha?
- English or German? => Material and Language
- Usual procedure
 - Scratch and in parallel Java
- Our sessions
 - Recap homework
 - Focus on annotation first with presentation
 - Working on little project “Java conference”
 - Do also leetcode and codewars exercises for further deepening

My plan for you

- Teaching you the java annotations
 - Java Conference
 - Leetcode and codewars
- Introducing you to clean coding
- Introducing you to unittests
 - Java Conference
- Introducing you to test-driven-development
 - Stop-Watch
- Introducing you to pair-programming
- SQL

Check for java or install it

- Open your terminal and enter “java --version” (or windows search for java)

```
java version "22.0.1" 2024-04-16  
Java(TM) SE Runtime Environment (build 22.0.1+8-16)  
Java HotSpot(TM) 64-Bit Server VM (build 22.0.1+8-16, mixed mode, sharing)
```

- If not, there => <https://code.visualstudio.com/docs/java/java-tutorial>
- Open your terminal and enter “java --version” (or windows search for java) again

Your first program I

- Create in you doc files the folder “java_homework” and “java_conference” and “java_exercise”
- Create in your vscode the file main.java in folder “java_exercise”
- Enter this code into main.java

```
public class main {  
    public static void main(String [] args){  
        System.out.println(“Hello word”);  
    }  
}
```

- Syntax explanation

Your first program II


- Two ways of executing your program
- 1 Way
 - Press “Play” button in vscode => vscode-Terminal returns “Hello World”
- 2 Way
 - Go to your terminal
 - Navigate via “cd”-cmd to the folder with your “main.java”-file
 - Compile your code with command “javac main.java” => you see a new file in your directory
 - Type now “java main”

Online tools

- https://www.w3schools.com/java/tryjava.asp?filename=demo_compiler

Java-conference

- Create a folder call java_conference
- In this folder create a java file call system_out_println
- The commandline should generate the following sentences

java_conference >  system_out_println.java

```
1  public class system_out_println {
2      public static void main(String [] args){
3          //"Welcome to our Java conference"
4          //"We have 50 tickets available in sum"
5          //"Only 20 tickets are left"
6          //"Get them now"
7      }
8  }
9  |
```

Homework

- Create a file main2.java that creates this output

```
Hello World!  
I am learning Java.  
It is awesome!
```

- Create a file main3.java that creates this output

```
3  
358  
50000
```

- Create a file main4.java that creates this output (important use two System.out... cmds)

```
Hello World! No new line.
```