

# DOCoMETRe - Installation

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## Check these key points

- Is proper Java version installed ?
- Will I use Matlab and/or Python ?
- Is desired hardware available ?
- Corresponding Software installed ?

## Then just follow one or more of these steps

- Install Java
- Install Matlab and/or Python
- Install and configure desired Hardware
- Install DCoMETRe

## How to check if Java is installed ?

```
○ frank — -bash — 83x8
Last login: Mon Jun 21 08:38:15 on console
mbp-de-frank:~ frank$ java -version
java version "11.0.10" 2021-01-19 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.10+8-LTS-162)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.10+8-LTS-162, mixed mode)
mbp-de-frank:~ frank$
```

Also useful to see which version is installed

**In this screenshot, we check Java version is at least 11**  
**Please update information to the latest needed release**

## Do I need to install Java ?

If Java command is not recognized or if version is less than **21** :  
**You must install Java (again) !**

Select one of these distros and follow installation instructions

- [AdoptOpenJDK](#)
- [Azul Zulu OpenJDK](#)
- [Amazon Corretto](#)
- [Liberica OpenJDK](#)
- [Oracle Java JDK\\*](#)

Java Version Alert

**Pick at least Java 21 Version**

**Prefer a Long Term Support JRE or JDK**

**\*Prefer Oracle Java JRE/JDK as it is used for dev.**

## Once installation has finished : check Java Version !

```
○          ^ frank — -bash — 83x8
Last login: Mon Jun 21 08:38:15 on console
mbp-de-frank:~ frank$ java -version
java version "11.0.10" 2021-01-19 LTS
Java(TM) SE Runtime Environment 18.9 (build 11.0.10+8-LTS-162)
Java HotSpot(TM) 64-Bit Server VM 18.9 (build 11.0.10+8-LTS-162, mixed mode)
mbp-de-frank:~ frank$ █
```

**Just to be sure Java has been properly installed !**

**In this screenshot, we check Java version is at least 11  
Please update information to the latest needed release**

DOCoMETRe is supposed to work with any version of Matlab. It has been tested with 2020 to 2024 versions.

You can install Matlab using [this link](#)

**Remember you will have to configure path to Matlab executable in DOCoMETRe preferences**

To use Python with DCoMETRe, please follow these steps :

- Install Python
- Install Py4J

## Python version alert !

Python version that has been tested and works with Py4J is 3.10.4  
Please install this version if you want to use Python with  
DOCoMETRe

## How to check Python installation and version ?

Just like the Java installation test, you can check Python  
installation and version using this kind of command in Terminal :  
**python -version**

**Remember you will have to configure path to Python  
executable in DOCoMETRe preferences**

## You need to install Python again ?

Please follow one of these links :

- Download Python 3.10.4 for Windows from [here](#)
- Download Python 3.10.4 for Mac OS from [here](#)

## Install Py4J

Once Python 3.10.4 is installed, you can install Py4J using :

```
pip install py4j
```

You will also need matplotlib, numpy and scipy libraries. Here is the kind of command you could use :

```
pip install py4j matplotlib numpy scipy
```

## Available Hardware

- ADWin Pro I and II
- ADwin Gold I and II
- Arduino Uno R3, R4 with support for ADS1115 (ADC 15bits)

## Planned Hardware

- Enhanced Arduino Uno with DAC 12bits
- Teensy 4
- Portenta Machine Control

## Overall Steps

- Download Software
- Install Software
- Configure Hardware

## Steps to install Software

- Follow this link to download [Software](#)
- Uncompress downloaded Zip file
- Execute Setup.exe installer

## Your platform is MacOS or Linux ?

In this case, there are two alternatives :

- Use WineHQ for OSX prior to 10.15
- Use Docker Desktop for any OSX or Linux version

Please check DOCoMETRe help in  
Special topics of the table of contents

## Steps to configure Hardware

- Run ADConfig.exe program
- Configure Compiler in ADBasic.exe Program

## Hint

**Remember there is online help in both programs !**

## Two Steps

- Download Software from [Arduino](#)
- Install Software : simply uncompress downloaded file

**Please choose Legacy IDE or CLI version  
Put uncompressed file in a folder  
where you have all rights**

## Two Steps

- Download Software from [here](#)
- Install Software : simply uncompress downloaded file

**Put uncompressed file in a folder  
where you have all rights**

## MacOSX Only

If you get this kind of message the first time you start the application : "**« DOCoMETRe » is damaged and can't be opened. You should move it to the Trash.**", please follow this [link](#) for a short tutorial on how to solve this problem.