

Wonder7 Quick Install Guide

Install Java SE 10 JDK on the develop machine

on Windows

create a directory on the root level of the C drive:

`C:\Development`

on macOS

create a directory on the root level of the filesystem

`/Development`

Since macOS Catalina the root of the filesystem is protected. Create the Development directory und `/Users/Shared` instead and use this path instead of `/Development` wherever needed.

All following sections are identical macOS and Windows. Only difference is the usage of `/` or `\` in file system path names.

Inside your `Development` directory set up the following sub dir structure

```
./Applications
./libraries/wo.system.root/Library/Frameworks/
./libraries/wo.local.root/Library/Frameworks/
./WonderSource/
./eclipse-workspace/
./temp-stuff/
```

Note that this directory layout is different from the one in the book. I have streamlined and simplified things quite a bit.

Download the latest Eclipse from eclipse.org. Look out for the *IDE for Java Developers* package, put Eclipse into `./Applications` folder

Go to ant.apache.org and download the binary distribution, no need to download source.

Put the downloaded `apache-ant-1.10.3` folder into `./Applications` (your ant version might be slightly different here)

To be able to easily run ant from the command line (CMD on Windows, Terminal on macOS) it makes sense to add the `./Application/apache-ant-1.10.3/bin` dir to the path variable (your ant version might be slightly different here). You know how to do that on your system, don't you?

Download Wonder-7 release from <https://github.com/wocommunity/wonder/releases>. You need two files:

- Sourcecode(.zip | .tar.gz)
- wotaskd.tar.gz

Unpack *wotaskd* and put the resulting `wotaskd.woa` folder into `./Applications`

Unpack the sources and put the resulting folder `Wonder-Wonder-7.0` into `./WonderSource`

Download <https://jenkins.wocommunity.org/job/WOInstaller/lastSuccessfulBuild/artifact/Utilities/WOInstall/WOInstaller.jar>, put this into `./Applications`

You are now ready to start the installation

You need to do it from the command line:

```
cd ./Applications
java -jar WOInstaller.jar 5.4.3 /Development/temp-stuff
(on Windows use C:\Development\temp-stuff)
```

This will create some folders inside *temp-stuff*, amongst them `Library/Frameworks`.

Move all the folders `Java*.framework` from inside `Library/Frameworks` into `wo.system.root/Library/Frameworks` (the one you created above at the beginning)

You need to create a folder called *WOLips* and inside it a textfile *wolips.properties*

The locations are different between Windows and Mac:

Windows:

`%APPDATA%` (that's `C:\Users\yourusername\AppData\Roaming`)

macOS:

`/Users/yourusername/Library/Application Support`

Here is the contents that goes into *wolips.properties*. The following examples have "wodev" as user name. Replace with your actual user name. The only difference between the files is the location your give for *user.home* and the way how to specify paths: Windows: `C:\\Development` is `/Development` on macOS, Any `\\` directory delimiter on Windows is `/` on macOS

Make sure to not break lines. Each line is formatted as *key=value* pair

macOS Version

```
wo.api.root=/Development/Documentation/api_doc
wo.apps.root=
wo.bootstrapjar=/Development/Applications/wotaskd.woa/WOBootstrap.jar
wo.dir.reference.api=/Development/Documentation/api_doc
wo.extensions=
wo.local.frameworks=/Development/libraries/wo.local.root/Library/
Frameworks
wo.local.root=/Development/libraries/wo.local.root
wo.localroot=/Development/libraries/wo.local.root
wo.root=/Development/libraries
wo.network.frameworks=
wo.network.root=
wo.system.frameworks=/Development/libraries/wo.system.root/Library/
Frameworks
wo.system.root=/Development/libraries/wo.system.root
wo.systemroot=/Development/libraries/wo.system.root
wo.user.frameworks=/Users/wodev/Library/Frameworks
wo.user.root=/Users/wodev
wolips.properties=wolips.properties
```

Windows Version

```
wo.api.root=C:\\Development\\Documentation\\api_doc
wo.apps.root=
wo.bootstrapjar=C:\\Development\\Applications\\wotaskd.woa\\
\\WOBootstrap.jar
wo.dir.reference.api=C:\\Development\\Documentation\\api_doc
wo.extensions=
wo.local.frameworks=C:\\Development\\libraries\\wo.local.root\\Library\\
\\Frameworks
wo.local.root=C:\\Development\\libraries\\wo.local.root
wo.localroot=C:\\Development\\libraries\\wo.local.root
wo.root=C:\\Development\\libraries
wo.network.frameworks=
wo.network.root=
wo.system.frameworks=C:\\Development\\libraries\\wo.system.root\\
\\Library\\\\Frameworks
wo.system.root=C:\\Development\\libraries\\wo.system.root
wo.systemroot=C:\\Development\\libraries\\wo.system.root
wo.user.frameworks=C:\\Users\\wodev\\Library\\Frameworks
wo.user.root=C:\\Users\\wodev
wolips.properties=wolips.properties
```

ONLY ON WINDOWS:

Duplicate the folder *WOLips* with the properties file and put it into
C:\\Users*yourusername*\\Library\\Application Support

You have to create that path, mind the space character in the folder name
"Application Support"

Open a command line (CMD or Terminal) and cd into the wonder-wonder-7 sources folder

Just for a test: the command

ant -projecthelp

should now give you a list of targets. If you get command not found you did not include ant into your path variable.

If ant runs but complains otherwise (like build.xml not found or some such) you are not sitting in the correct folder.

Now build the Wonder frameworks with

ant frameworks

This may result in warnings but should not give errors. It can take a moment to compile everything and you will see tons of messages fly by.

If this is ok, use the command

ant frameworks.install

to put the compiled frameworks into their proper location. There might be an error message at the end regarding something *apache/htdocs* related. Also on macOS some privilege errors may occur. These can safely be ignored.

As a result of this install command you should find a ton of ***.framework** folders inside **wo.local.root/Library/Frameworks**

Your environment is now set up. The next step is the installation of the required Eclipse plugin:

Start Eclipse from the **./Applications** folder and point its workspace to **/Development/eclipse-workspace**

From the *Help* menu in Eclipse select *Install New Software*. Enter the following URL for the Site and hit Add.

You can give this new Site a name like wolips or somesuch

<https://jenkins.wocommunity.org/job/WOLips410/lastSuccessfulBuild/artifact/temp/dist/>

Hit enter and proceed with the installation. You can safely accept the license warning.

From the selection dialog click *WOLips* and from the *WOLips Optional* only the *WOLips Goodies*.

Now continue with the book to create your first Hello World application