

Creating Extensions

Info

Now you can just skip this tutorial and paste your code in [Kodular IDE](#)!

Tools you will need

Warning

This guide assumes you to be a **Windows** user.

- ☒ [App Inventor Sources](#)
- ☒ [Java JDK](#)
- ☒ [Apache Ant](#)
- ☒ [Git](#) (or [GitHub Desktop](#))
- ☒ Java IDE/Text Editor ([VS Code](#), [IntelliJ IDEA](#), [Notepad++](#), [Atom](#) are recommended)

Step 1: Setting up Java JDK

- Install JDK

Warning

Be sure not to install it in a directory whose path contains spaces

- Set the Environmental Variables:
 - Set `JAVA_HOME` to where you installed Java JDK.

For example: `C:\Program Files\Java\jdk1.8.0_131`

- Edit **PATH** and add those:

```
%JAVA_HOME%/bin, %JAVA_HOME%/jre/bin, C:\ProgramData\Oracle\Java
\javapath
```

- **Check Java installation:**

```
$ java -version
java version "1.8.0_131"
Java(TM) SE Runtime Environment (build 1.8.0_131-b11)
Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed
mode)
```

Step 2: Setting up Apache Ant

- Unzip the folder and move it to a place where it is safe. For example: `C:\apache-ant-1.10.1`

Warning

Be sure not to install it in a directory whose path contains spaces

- Set the Environmental Variables:
 - **Set** **ANT_HOME** to where you have the Ant folder placed. For example: `C:\Ant\apache-ant-1.10.1`
 - **Edit** **Path** and add `%ANT_HOME%\bin`
 - **Edit** **ClassPath** and add `%ANT_HOME%\bin`
- **Check Ant installation:**

```
$ ant -version
Apache Ant(TM) version 1.10.1 compiled on February 2 2017
```

Step 3: Setting up Git

- Set it up as written in this [tutorial](#)

• Check Git installation:

```
$ git version  
git version 2.11.0.windows.3
```

Step 4: App Inventor Sources

- Unzip the folder and move it to a place where it is safe

Warning

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Step 5: Building an Extension

- Save the above code to `appinventor-sources/appinventor/components/src/io/kodular/` as `SimpleMaths.java`
- Go back to the `appinventor` folder.
- Open Command Prompt on that directory.
- Type `ant extensions` and click on enter.

Wait for the extension to build...

Success

If it says: **BUILD SUCCESSFUL**, then you just created an extension. :-)

Danger

But if it says: **BUILD FAILED**, then you did something wrong and have to look over again. :-(

Step 6: Sharing Extensions

Your extension file (.aix file) should appear in the directory:

`appinventor-sources/appinventor/components/build/extensions`

Now, you can easily share the aix files with anyone and can import it into Kodular seamlessly.

- For more information about extensions, read [here](#)
- Keep making more and more and more extensions and help our community to build the best app.
- [Share your extensions](#) with our community and become an "[Extension Developer](#)".

If you want more help, feel free to ask us on [Kodular Community](#).

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