# MIT App Inventor CheatSheet

When developing an application with the [MIT App Inventor platform](http://appinventor.mit.edu/explore/about-us.html), a **google login** account is required.

## Develop

### Build Environment

You will build your application in a browser [here](http://ai2.appinventor.mit.edu)

Note that this is a cloud based development environment so you can access any of your development projects from any computer with an internet connection.

### Test Environment

For those of you with an android device over a Wi-Fi connection - use the [companion app](http://appinventor.mit.edu/explore/ai2/setup-device-wifi.html)  
For anyone else - use the [emulator](http://appinventor.mit.edu/explore/ai2/setup-emulator.html)  
*Note that when using the emulator, some android features and sensors will not work. During the course, we will release a package to simulate some of the desired behaviors. Stay tuned ☺*

#### At Uni:

The emulator has been installed on the student computers within the engineering precinct. Detailed instructions on using this setup are included with the materials released in tutorial 1.

## Deploy

### Build

The app can be built/compiled for distribution and sharing. To build the application:  
From the build environment with the project loaded, select the menu option **build -> App**.

*Note: for sharing the file, it is easiest to use the second option* ***(save to my computer)*** *then download as an* ***.apk file*** *which can be installed on your phone.*

### Source Code

The **.aia file** or source code for a project can be exported from the build environment and shared among others.

**.aia files** can be loaded to someone else's project environment, so that they have the option to load the project, and make changes as required.

To download the source code:  
From the build environment with the project loaded, select the menu option **projects -> Export selected project (.aia) to my computer**

#### Sharing a built app or source code

More details about sharing the .aia and .apk files can be found [here](http://appinventor.mit.edu/explore/ai2/share.html)

More details about side loading can be found [here](http://www.techrepublic.com/blog/smartphones/how-to-side-load-apps-on-your-android-device/)

#### Publish

Details about publishing your application (including distribution at the playStore) can be found [here](http://appinventor.mit.edu/explore/ai2/google-play.html)