



Installing FTC Software Tools



Github Access

- Need your own github account / e-mail to go with it
- Sign up at <https://github.com/>
- Once you sign up, send e-mail to jeff_l_scott@yahoo.com with your user name or e-mail that you signed up with, and I'll invite you to the project
- StrykeForce FTC github repository is
https://github.com/StrykeForceFTC/ftc_app



Download Packages

- Download both prior to installation
- Git – <https://git-scm.com/download/win>
- Android Studio - <https://developer.android.com/studio/>



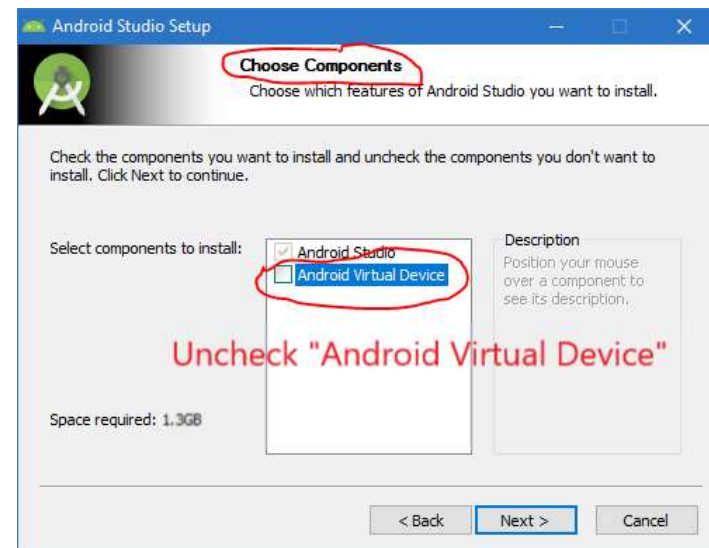
Install Git

- Run the downloaded executable
- Accept all defaults (don't need to open release notes after installing)
- Note installation location (typically C:\Program Files\Git)



Install Android Studio

- Run the downloaded executable
- In the “Choose Components” window, uncheck “Android Virtual Device”
 - Not useful for FTC and saves space
- All other options can be left at defaults
- After installation complete, start Android Studio



Configure Android Studio

Once Android Studio starts:

1. Choose Configure → Settings (Configure icon is in lower right of window)
2. Go to Build, Execution, Deployment → Instant Run (pane on left)
 - A. Disable Instant Run (uncheck “Enable Instant Run to...” (may have to do this after project is imported))



Configure Android Studio – Git

- Stay in Configure → Settings
 1. Go to Version Control → Git (pane on left)
 2. Enter “Path to Git executable”, typically C:\Program Files\Git\bin\git.exe
 3. Hit “Test” button on right next to path; window should pop-up indicating successful



Configure Android Studio – Github

Stay in Configure → Settings:

1. Go to Version Control → Github (pane on left)
2. On host line, enter <https://github.com/>
3. Change “Auth Type” to “Password”
4. Type in your Login (github user ID or e-mail) and Password
 - a) NOTE: if you hit “enter” after entering your login or password, you’ll have to navigate back to the settings and test
5. Test using button; you must get a “Success” message
6. “OK” out of settings



Download and Open Project

1. From Android Studio startup window, choose “Check out project from Version Control” and choose Github
2. Enter https://github.com/StrykeForceFTC/ftc_app.git as the “Git Repository URL” & test
3. Choose a parent directory – create an FTC directory near the C root (I use C:\FTC”)
4. Set the directory name as ftc_app
5. Hit “Clone” button




Download and Open Project, cont.

6. After downloading the project, Android Studio will ask if you want to open it, answer No and restart Android Studio
7. From the Android Studio Startup window “Import project (Gradle, Eclipse ADT, etc.)”
 - A. In window that opens, navigate to the ftc_app directory and select “build.gradle” and hit OK
 - B. If ftc_app is listed in the pane on the left, select it from there



Initial Build of Project

1. Build → Make Project or hammer icon 
2. If build fails and it indicates items must be updated, update them (usually a hyperlink in the build log) and re-build until it builds correctly
3. It can take quite a few updates before it will build correctly

Create Own Working Branch

1. At bottom right of Android Studio window you should see “Git:master”
2. Click that and select “+ New Branch” at the top of the list
3. In the pop-up window, put in a name (user name is preferred) for your branch and hit “OK”. Leave “Checkout branch” checked
4. Bottom right of window should now indicate your new branch
5. Branch won’t exist in Git hub until you do a commit & push