Last lecture recap
Dalvik and ART
JIT in ART

- .oat files
  - Using AOT Binary
  - ART

- .dex files
  - No AOT Binary
  - ART
    - cold code
    - ART
    - hot code
    - Just-in-Time (JIT)

- Interpreter
  - APP RUNS
UX Programming
UX Design

Figure 1: The Ribbon Interface
Material Design
Constraint Layout
Fragments

Tablet

Selecting an item updates Fragment B

Activity A contains Fragment A and Fragment B

Handset

Selecting an item starts Activity B

Activity A contains Fragment A

Activity B contains Fragment B
Hamburger Menus
Notifications and Dialogs
MVC

- **Model** updates
- **Controller** manipulates
- **View** sees
- **User** uses
Reactive Programming

- reactive programming = asynchronous programming = callback methods = observer pattern
- manage streams of data
- well-adapted paradigm for asynchronous (UX) programs
- Android library: RxAndroid
Lab 6

• Topic: Fragments

• build a 3-screen app with a menu fragment at the bottom of the screen
Advance Reading

- Next week’s topic: building web services

Questions