One application

to rule them all
Tom

- First code 1983
- Graduated 1993
- Rent-a-nerd
- Self employed 2005
- 100+ projects
Time registration
Applet?!?

- Written 2006
- Survived
  - IE6, IE7, IE8, IE9, IE10, IE11
  - Firefox 1.5 to 48
  - Birth of Chrome (2008)
  - Windows XP to 10
- Without a single code change
- Applets soon not supported by browsers (except IE)
Project lead
Convert applet to desktop application
Write multiplatform JavaFX application
Goals

- Does JavaFX work at all on mobile?
- How much effort?
- What mobile UI libraries exist?
- Can the app be controlled using touch?
- Performance?
- Single code base?
Does it work?
JavaFXPorts
Oh, oh

... 
:createMainDexList FAILED
:createMainDexList (Thread[main,5,main]) completed. Took 1.593 secs.

FAILURE: Build failed with an exception.

* What went wrong:
Execution failed for task ':createMainDexList'.
> Exception in thread "main" com.android.dx.cf.iface.ParseException: InvokeDynamic not supported

BUILD FAILED
Android

- 80% of mobile platform
- Apache Dalvik & Harmony
- Java 6 (97%)
  - InvokeDynamic
  - Try-with-close
  - Lambda’s
  - Streams
Retrolambda
Oh really?
Is it touchy?
GUI Garage
Flatter
Gluon Mobile (glisten)
Oh really?
Manually touchify standard controls

Go commercial
Rule them all
All screens
JFXtra’s ResponsiveLayout
Oh really?
JPro
Wrap up

Goals
- Does JavaFX work at all on mobile?
- How much effort?
- What mobile UI libraries exist?
- Can the app be controlled using touch?
- Performance?
- Single code base?

Verdict
- Yes
- Retrolambda is a problem (for now)
- JFoenix, but I’d go for Gluon
- Yes, but special skinning is a good idea
- Smooth
- Mobile, desktop and browser!
Thank you

- @tbeernot
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- jfxtras.org
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