Eclipse Sequoyah for Android App Developers

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Sequoyah



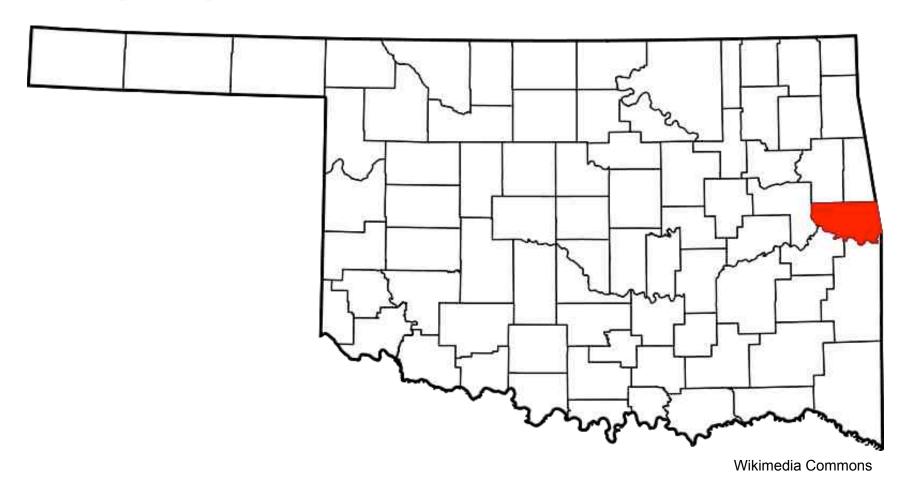
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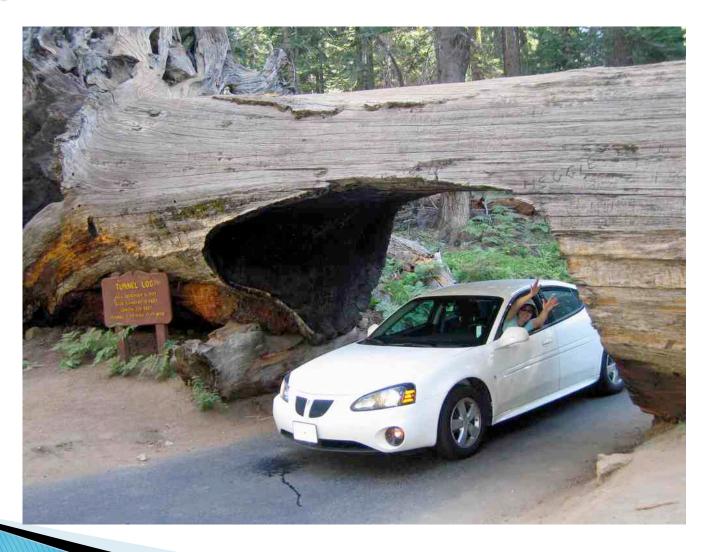
Sequoia



Sequoyah



Sequoia



Sequoyah

- Native American silversmith who created a syllabary for the Cherokee language in 1821, allowing his people to communicate across vast distances
 - http://en.wikipedia.org/wiki/Sequoyah

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Sequoia

- A species of large and long-living redwood trees that are found primarily on the western slopes of the Sierra Nevada mountain range
 - http://en.wikipedia.org/wiki/Sequoiadendron



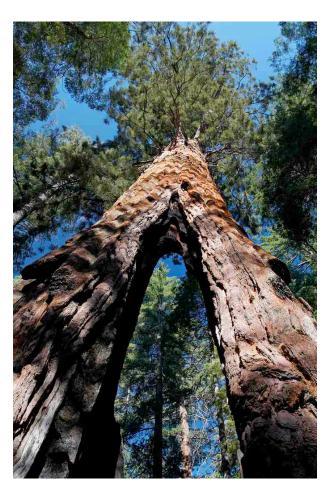
Important fact

Sequoia (the tree) was named in honor of Sequoyah (the man)



Sequoyah/Sequoia





History Lesson

- 2008: The Eclipse Mobile Industry Working Group (EMIWG) was formed by the Eclipse Foundation and handset manufacturers toward the goal of creating a common mobile tool set
- ▶ 2009: Eclipse Pulsar 1.0 ships with requirements delivered by the EMIWG. From one set of tools, Java ME developers are able to find, download and target several mobile vendors' SDKs.
- ▶ 2009: Sequoyah project is formed from the *Tools for Mobile Linux* and *Mobile Tools for Java* projects. Sequoyah is created to be focused on mobile development tools and frameworks without the artificial barriers of "for Linux" or "for Java".
- June 2010: Sequoyah 1.0 ships as a mature project with Eclipse Helios 3.6







Mobile Industry Working Group provides

Roadmap



Pulsar
is the
Result



Sequoyah
Project
provides

Execution

Sequoyah Technologies

- Tools and technologies useful to mobile developers
 - Localization tools with an Android implementation
 - Tools for Mobile Web
 - Mobile SDK discovery for Java ME
- Platform-specific mobile tooling
 - Android NDK build support
- Frameworks for building mobile tools
 - Device management
 - VNC protocol implementation and viewer plugin (VNC 3.x)
- Future
 - Manage non-string resources for localization
 - Test automation
 - Localization tools for Eclipse plugins

Open for Participation

- Project home
 - http://www.eclipse.org/sequoyah/
- Project wiki
 - http://wiki.eclipse.org/Sequoyah



- https://dev.eclipse.org/mailman/listinfo/sequoyah-dev
- mailto:sequoyah-dev@eclipse.org
- File a bug
 - https://bugs.eclipse.org/bugs/enter_bug.cgi?product=Sequoyah



Roll your own (IDE)

Choose a flavor

Eclipse IDE for Java Developers http://www.eclipse.org/downloads/ packages/eclipse-ide-java-developers/ heliosr

Pulsar

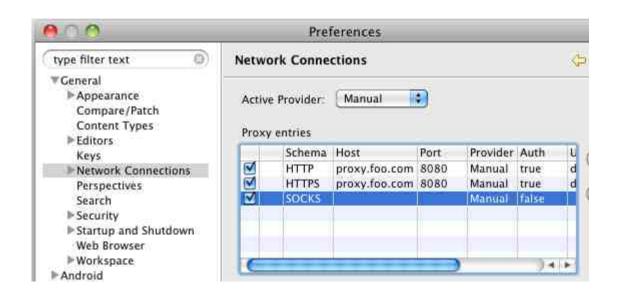
http://www.eclipse.org/downloads/
packages/pulsar-mobile-developers/
heliosr

Pulsar ≈ Eclipse for Java + Sequoyah



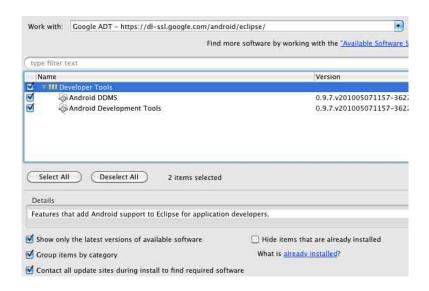
Configure Network Connection

- If necessary for proxy based configurations
 - Preferences->General->Network Connections
- Active Provider = "Manual"
- Set HTTP and HTTPS connections



Install ADT

- Help -> Install New Software
- Add a new Software Site:
 - https://dl-ssl.google.com/android/eclipse/
- Keep the following checkboxes unchecked:
 - Show only the latest versions of available software
 - Group items by category
- Follow steps to install ADT
 - Approve unsigned content warning



Install Sequoyah

- Install Sequoyah if not using Pulsar as a basis
- Configure install/update site for Sequoyah installation
 - Help -> Install New Software
 - Add a new Software Site:
 - http://download.eclipse.org/sequoyah/updates/1.1
 - Keep the following checkboxes unchecked:
 - Show only the latest versions of available software
 - Group items by category
 - Follow the steps necessary to install all the Sequoyah features

Install SDK and NDK

- Download the SDK
 - http://developer.android.com/sdk/index.html
- Download the NDK if desired
 - http://developer.android.com/sdk/ndk/index.html
- Run SDK Setup to download platforms, additional APIs, and samples
 - Alternatively, run Android SDK and AVD Manager from Eclipse

Windows Users

- If using the NDK, install Cygwin
 - http://www.cygwin.com/mirrors.html
- In addition to the standard Cygwin distribution, select the following packages
 - GCC
 - **G**++
 - Make
 - Gawk
- Add Cygwin\bin and ndk at the start of your PATH
 - Avoid spaces in the path to Cygwin, workspaces, or project names
- Test a command line NDK build before trying in Eclipse

Demos

- VNC Viewer
- NDK Support
- Localization

http://bit.ly/goog10seq

Thank You

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