

Android UI

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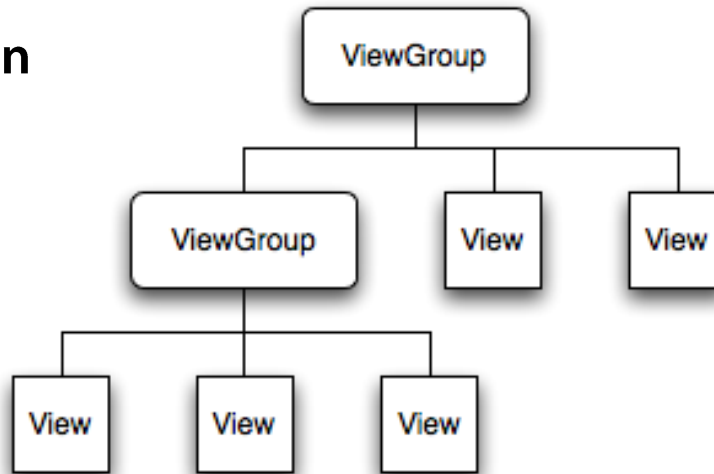


Introduction

- Everything is a View
- Layout Files
- Types of Layouts
- Creating a Simple Layout

Everything is a View

- Composed of view trees
- View Groups are nodes
- Views are leaves
- Composite pattern



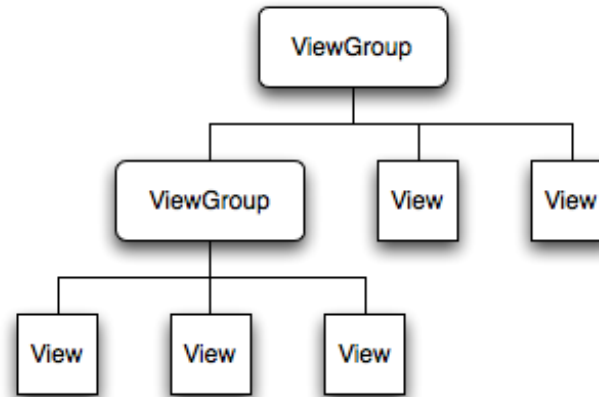
View Architecture

- **View is an overloaded word**
 - Layout
 - Individual Widgets (Button, TextView, etc)
 - Entire UI
- **Not quite MVC framework, but close**
 - Activity is kind of a controller / view
- **Pass root object to Activity and it draws the view tree**
 - View object
 - XML Layout file



Layout Files

- XML representations of view objects

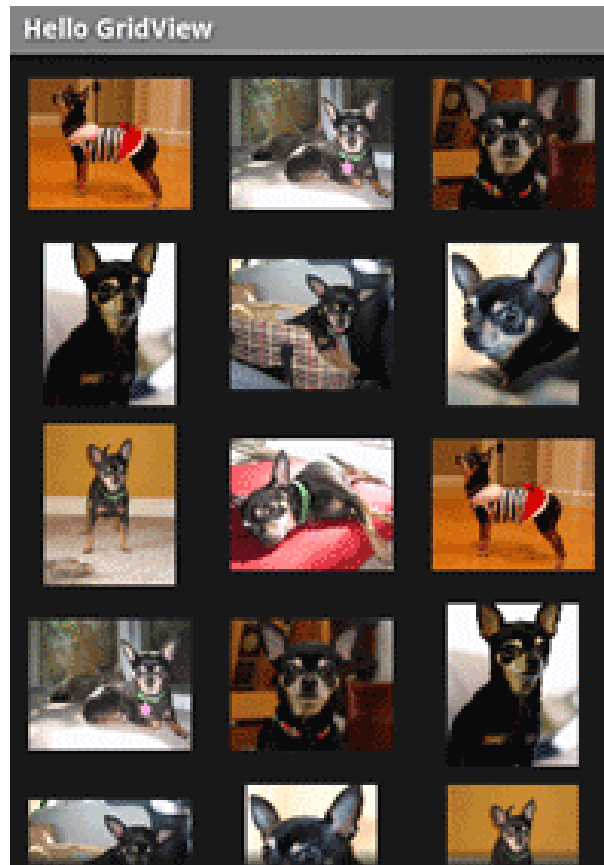


- Prefer layouts
 - More modular, better separation of concerns
 - Different layouts for localization or configuration

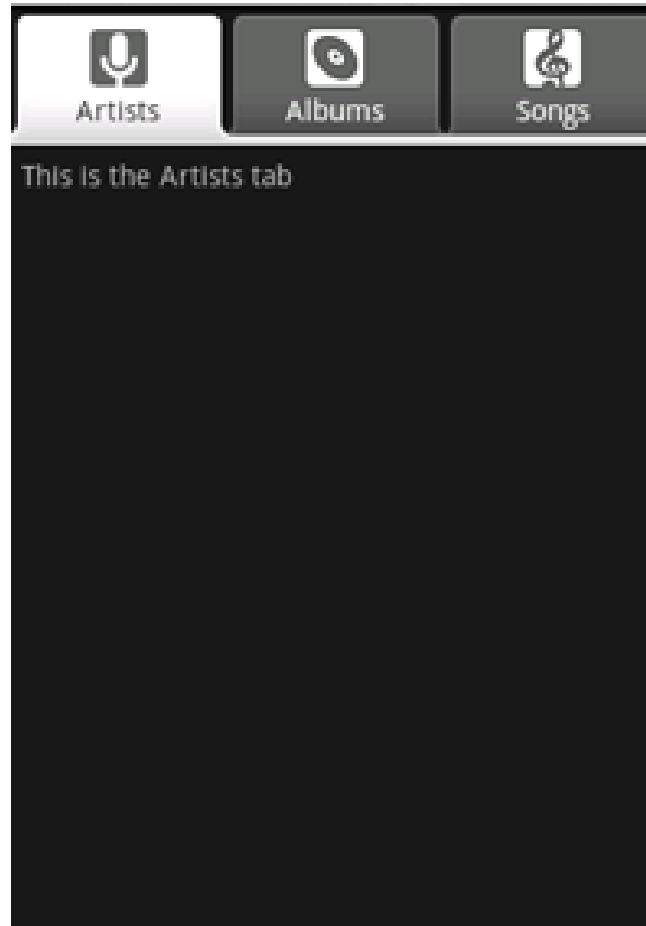
List View

Hello ListView	
American Samoa	
El Salvador	
Saint Helena	
Saint Kitts and Nevis	
Saint Lucia	
Saint Pierre and Miquelon	
Saint Vincent and the Grenadines	
Samoa	
San Marino	sa
Saudi Arabia	

Grid View

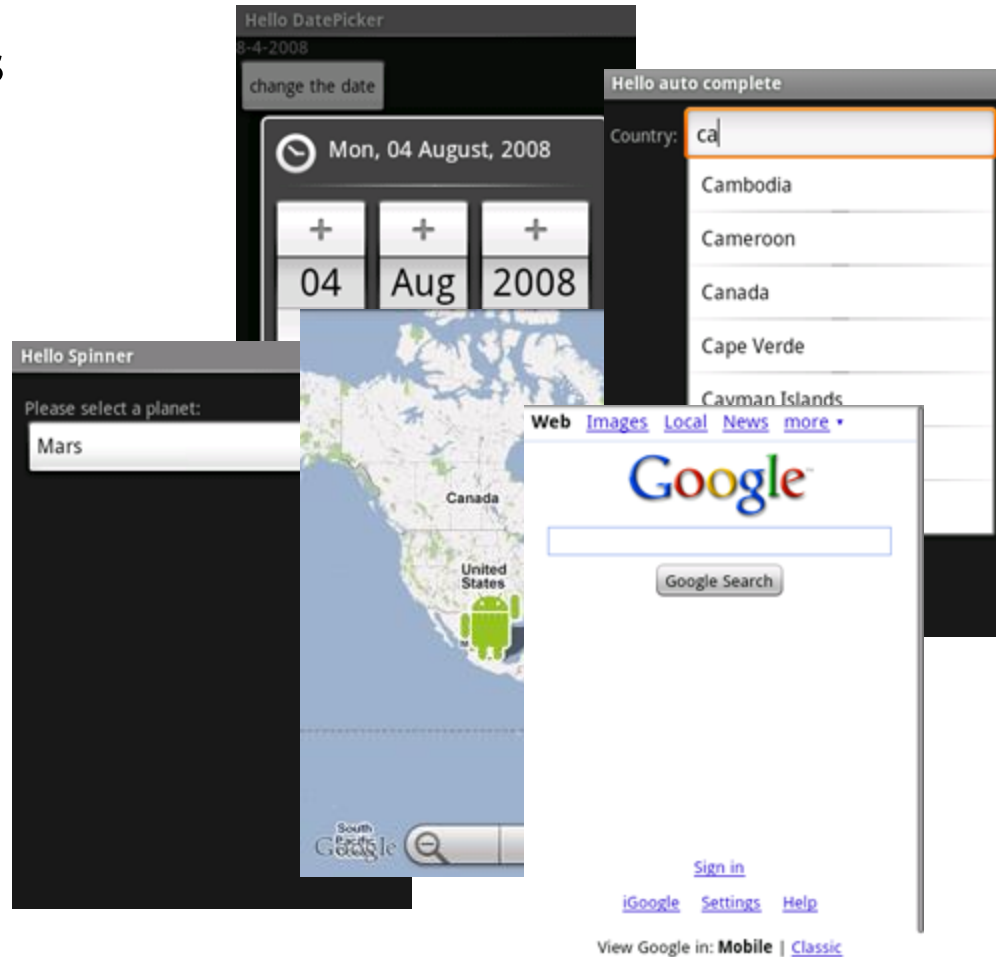


Tab View



Other Layout and View Options

- Date and Time Pickers
- Dropdowns (Spinner)
- Auto Complete
- Gallery
- Frame Layout
- Google Map
- Web View



Summary

- Views
- Layout Files
- Types of Layouts
- Protein Tracker UI



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