

# Android Workshop

What is Android?

# Overview



# Features of Android

- Beautiful UI
- Connectivity
- Storage
- Messaging
- Web browser
- GCM
- Wi-Fi Direct
- Android Beam

# Installation

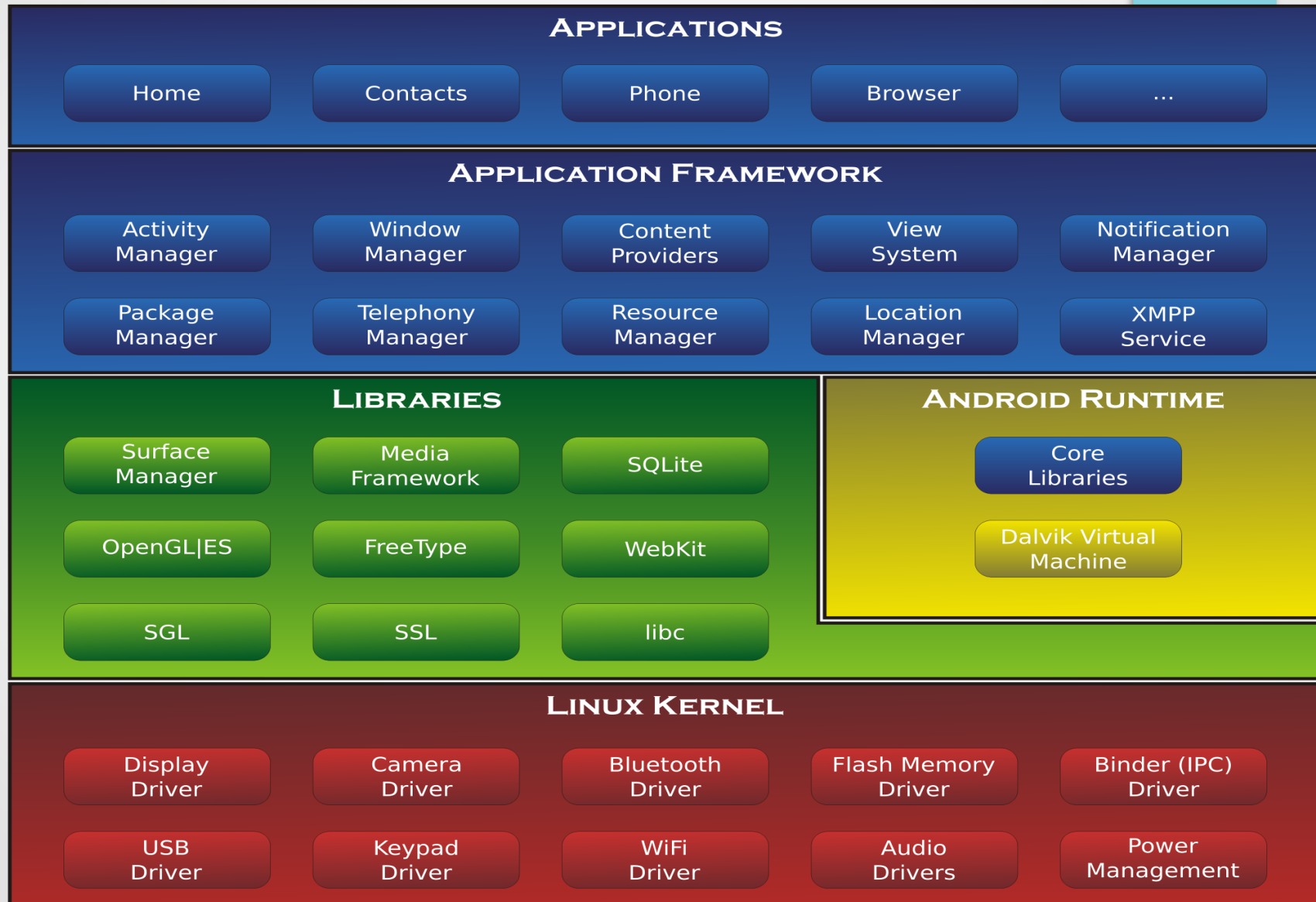
- Android SDK
- Project Structure
- Android Virtual Devices

Notes:

`MinSdkVersion`

`TargetSdkVersion`

# Architecture



# Application Components

- Activities

They dictate the UI and handle the user interaction to the smart phone screen.

- Services

They handle background processing associated with an application.

- Broadcast Receivers.

They handle communication between Android OS and applications.

- Content Providers

They handle data and database management issues.

# UI Controls

- TextView
- EditText
- Button
- CheckBox
- ToggleButton
- ProgressBar
- Spinner
- TimePicker
- DatePicker

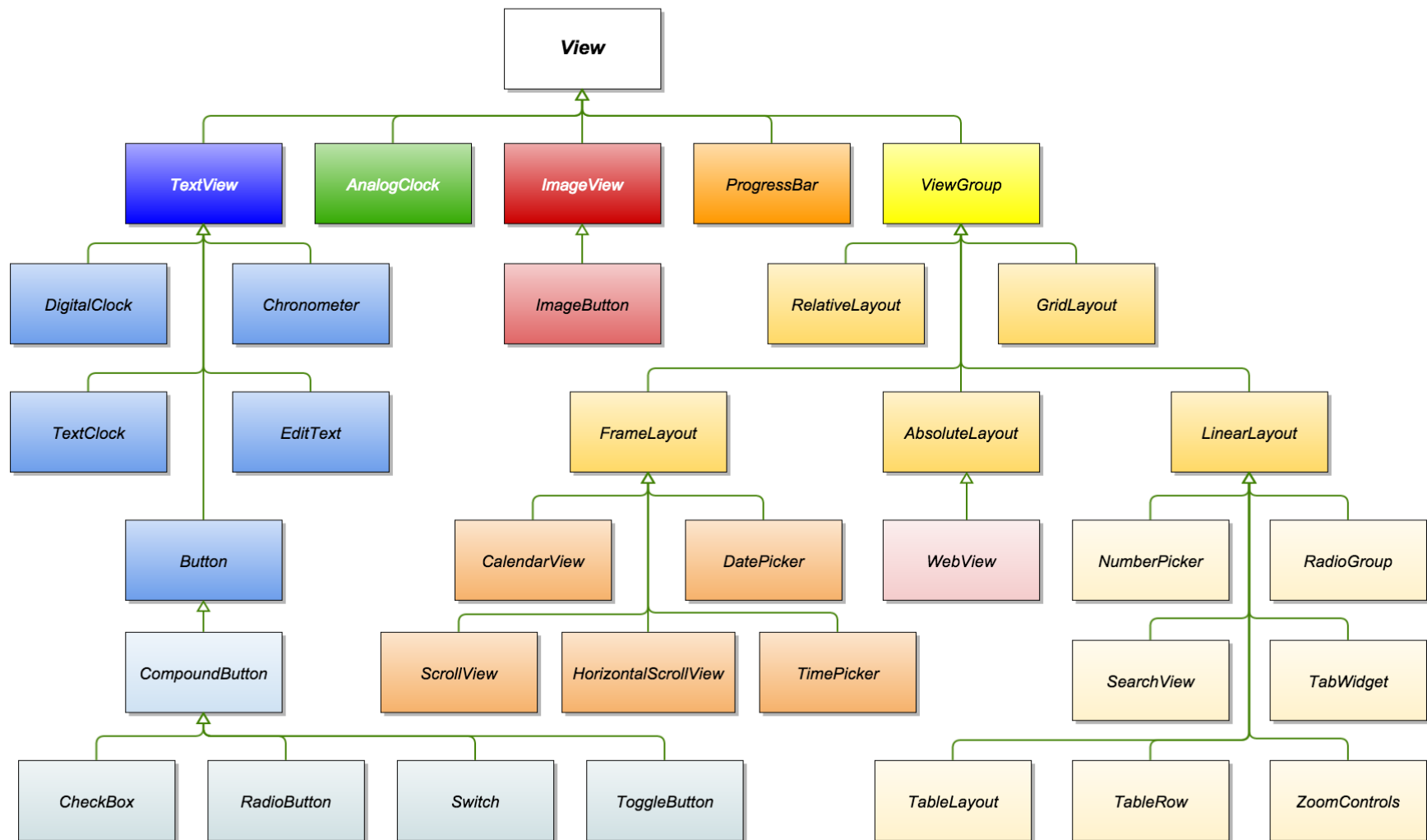
# Event Handling

- OnClickListener
- OnLongClickListener
- OnFocusChangeListener
- OnKeyListener
- onTouchListener
- OnMenuItemClickListener
- OnCreateContextMenuListener



# UI Layouts

## The Android View Class



# UI Layouts

- Linear Layout
- Relative Layout
- Table Layout
- Absolute Layout
- Frame Layout
- List View
- Grid View