

TextView

- Multiline text: How to add newline breaks.
 - Add \n in XML layout
 - OR press shift+enter in translation editor to allow multiline string literal
- EditText: Extends TextView used for user input
 - Type of keyboard and data entered depends on EditText Type

TextView's attributes

- drawableLeft, drawableRight, drawableTop, drawableBottom:
 - setCompoundDrawables (Drawable left, Drawable top, Drawable right, Drawable bottom)
- android:drawablePadding
 - The padding between the drawables and the text
 - setCompoundDrawablePadding(int)
 - 14.75sp, 5dp
- android:gravity
 - Specifies how to align the text by the view's x- and/or y-axis when the text is smaller than the view.
 - Must be one or more (separated by '|') of the following constant values.

www.fppt.infe

TextView's attributes

- android:gravity
 - Specifies how to align the text by the view's x- and/or y-axis when the text is smaller than the view.
 - Must be one or more (separated by '|') of the following constant values
 - setGravity (int gravity) –view.setGravity(Gravity.CENTER | Gravity.BOTTOM);
- android:fontFamily
 - Sets the font family
 - setTypeface(Typeface.create("sans-serif-light", Typeface.NORMAL));

TextView's attributes

- android:lineSpacingExtra, android:lineSpacingMultiplier
 - setLineSpacing(float extra, float multiplier)
 - _textView.setLineSpacing(0.0f, 1.1f);
- android:lines
 - Sets exact number of lines
 - setLines(int)
- android:maxLines, android:minLines
 - setMaxLines(int), setMinLines(int)

www.fppt.info

TextView's attributes

- android:text
 - Text for TextView setText(CharSequence)
- android:textColor
 - Color for TextView: setTextColor(int)
 - textview.setTextColor(this.getResources().getColor(R.color.orange))
- android:textIsSelectable
 - setTextIsSelectable(boolean)
- android:textSize
 - setTextSize(int, float)
 - tv.setTextSize(TypedValue.COMPLEX_UNIT_SP, 18f);
- android:textStyle (use setTypeface() method)
 - BOLD, ITALIC, BOLD_ITALIC, NORMAL
 - textView.setTypeface(null, Typeface.BOLD);

EditText and Button

- Both Extend TextView
- Button for events
- EditText used to gather user input

unusy front inf

ImageView and ImageButton

- ImageView
 - ScaleType
- ImageButton
 - ExtendsImageView









Views for gathering input

- AutoCompleteTextView EditText with suggestions as the user is typing
- CalendarView this view lets you display dates to users for date input
- CheckBox
- CheckedTextView: text view that can be checked..typically used in a list view
- DatePicker

www.fppt.info

Views for gathering input

- NumberPicker
- RadioButton
- Spinner
- Switch
- TimePicker
- ToggleButton
- VideoView





Android UI: Notifications

- Notifications: provide short, timely, and relevant information about your app when it's not in use
 - Background task progress
 - Communications from other users
 - App-relevant reminders (sparse use)
- Snack bars and toasts

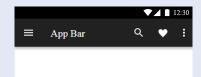


www.fnnt.infr

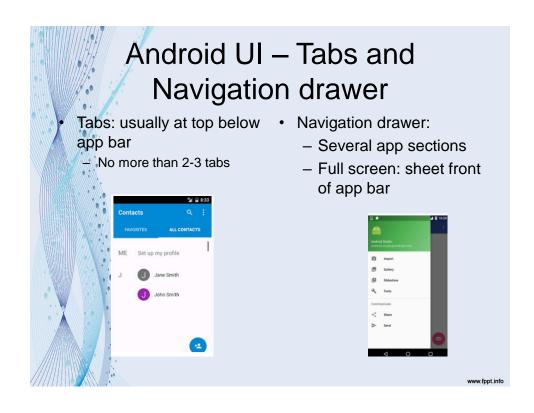
Android UI: App bar

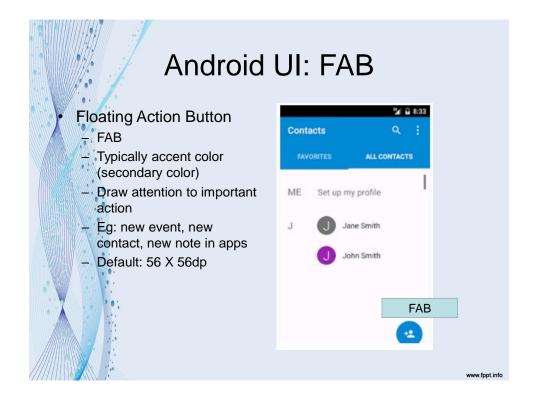
- App bar: A tool bar specific to the app that sits at the top of app
- Right below status bar
- Previously called action bar
- Standard height: 56dp on mobile devices
- May have another tool bar at the bottom (bottom tool bar)

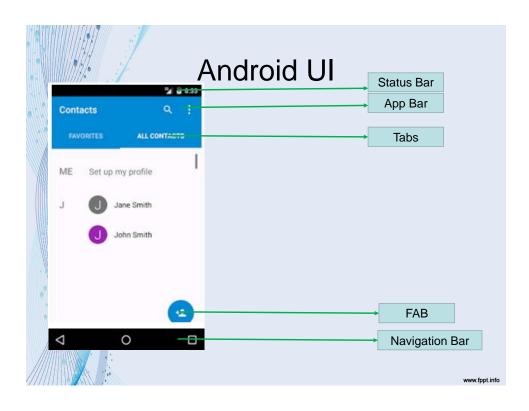
- App bar may be hidden
 - Reading apps

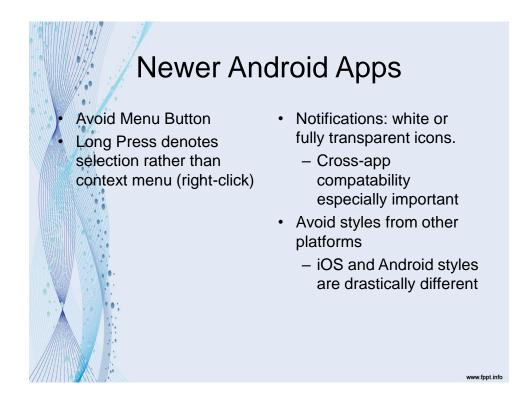


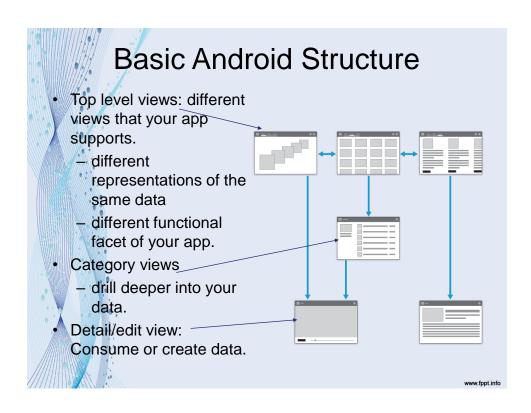
ww foot in













App Bars

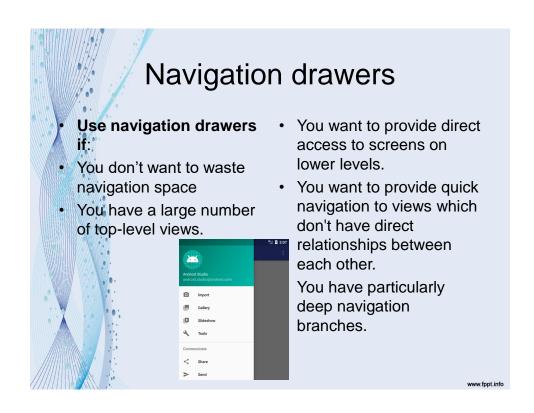
- App Bar: display your app's icon or title.
- If your top level consists of multiple views, add view controls to your app bar
- If your content is searchable, include the Search action in the app bar so people can cut through the navigation hierarchy.
- Identify functionality or utility of app bars in your app

www.fppt.info

Fixed Tabs

- Remains on the screen always at the top-level
- Allows multiple toplevel views
- User needs to switch between views frequently
- User needs to be made aware of the alternate views
- No more THAN three fixed tabs





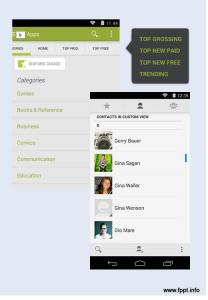
Top-level

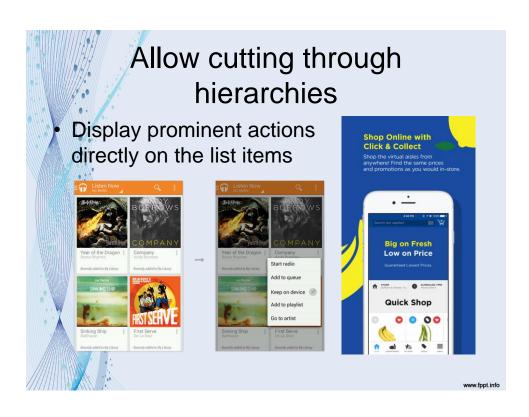
- Use Tabs, Spinners and Navigation drawer appropriately
 - Don't mix and match
 - Stick with one depending on your need

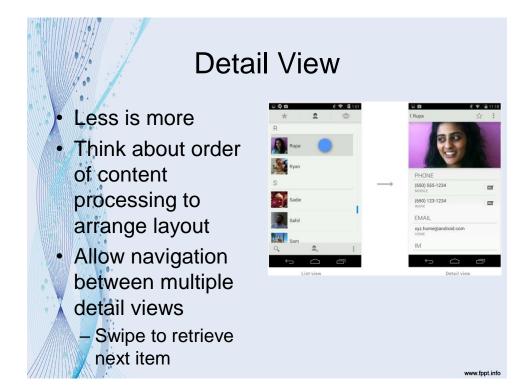
ww.fppt.info

Category-View

- Used in apps that have deep hierarchical structures
 - Use scrolling tabs for related categories
 - Use fixed tabs for unrelated categories







Overall Android App Structure

- Find ways to display useful content on your start screen.
- Use app bars to provide consistent navigation.
- Maintain shallow hierarchies: use horizontal navigation and shortcuts
- Use multi-select to allow the user to act on collections of data.
- Allow for quick navigation between detail items with swipe views.

www.fppt.info

Android UI

- Basic Android UI components
 - What? When to use?
- Android UI structure
 - Overall layout
 - -Three levels of Views
- Top-level vs. Category vs. Detail Views
 - What? When to use?
- Use of tabs, spinners, navigation drawers
- Design consideration for Android UI structure

Group Activity: Identify these in TWO apps of your choice

- Basic Android UI components: system bar, app bar, FAB, tabs, navigation drawer, notifications, android navigation bar, bottom navigation
- Android UI structure: Identify top-level, category and detail views
- Use of tabs, spinners, navigation drawers