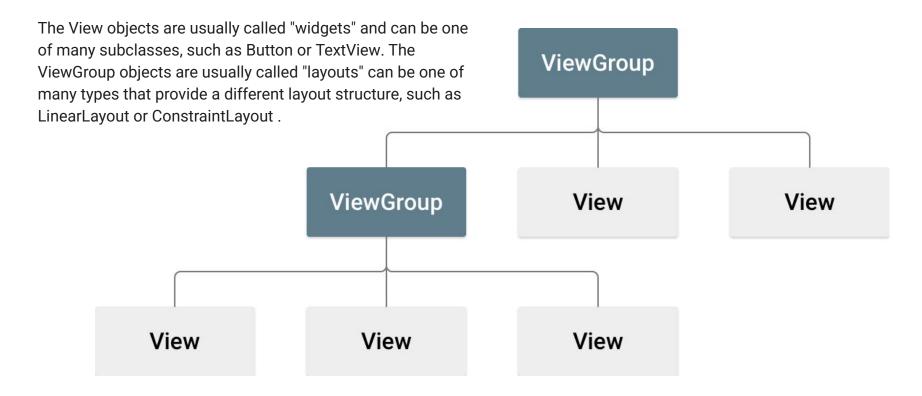
Android Development



Layouts - ViewGroups



Main layouts

LinearLayout : orientation

RelativeLayout

ConstraintLayout

GridLayout

TableLayout

FrameLayout

Width and height

1. **Px**

Píxeles.

2. **in**

Pulgadas

3. **Mm**

Millimeters

4. **Pt**

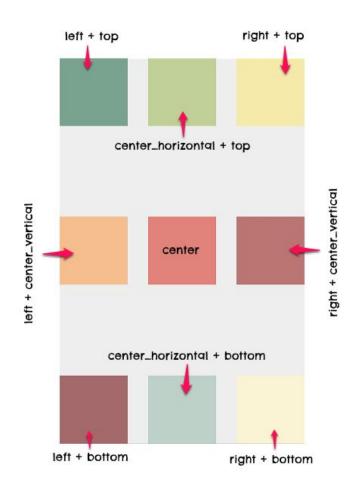
Puntos – 1/72 de pulgada basado en el tamaño físico de la pantalla.

5. **Dp**

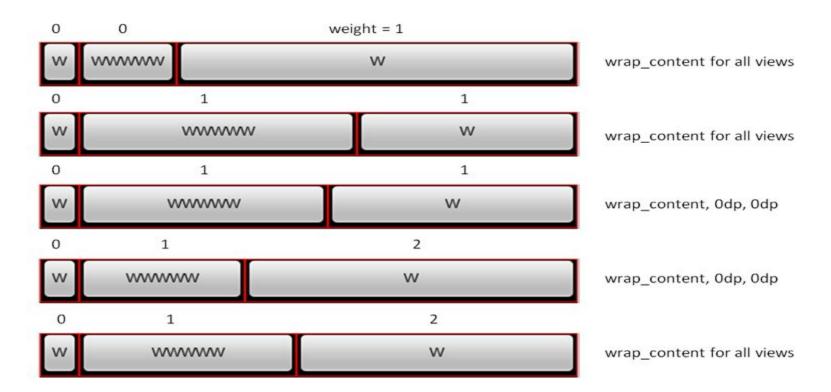
Píxeles independientes de densidad

6. **Sp**

Gravity



Weight



Appearance & Styling

These attributes define how a view looks.

- background Sets the background color or drawable.
- foreground Defines a drawable or color on top of the view (useful for ripple effects).
- elevation Adds shadow to create a depth effect (Material Design).
- alpha Adjusts transparency (1.0 = fully visible, 0.0 = invisible).

Text Appearance (For TextView, Button, etc.)

- text Defines the text content.
- textSize Sets the font size in sp.
- textColor Sets the text color.
- textStyle Defines the font style (bold, italic).
- fontFamily Custom font support.
- ellipsize Controls how text truncation happens when text is too long.
- maxLines Limits the number of text lines.

Image Properties (For ImageView)

- src Defines the image resource.
- scaleType Controls how the image scales inside the ImageView (fitCenter, centerCrop, centerInside, etc.).
- adjustViewBounds Adjusts the view bounds to maintain the image aspect ratio.

Visibility & Interaction

- visibility Controls visibility (visible, invisible, gone).
- clickable Enables/disables click events.
- focusable Determines if the view can receive focus.
- enabled Enables/disables the view for user interaction.