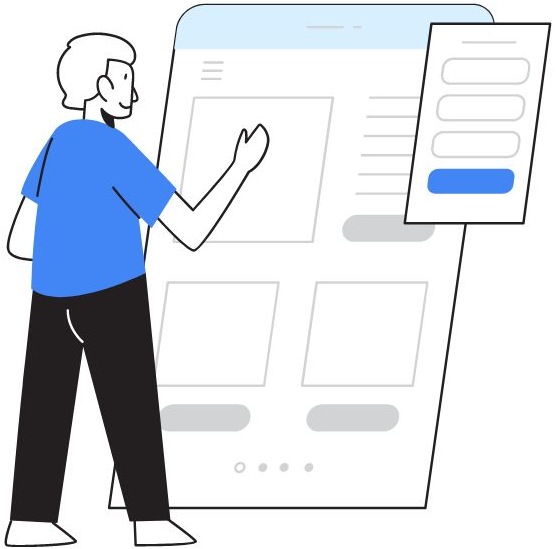
Android Study Jams

Become an Android Developer

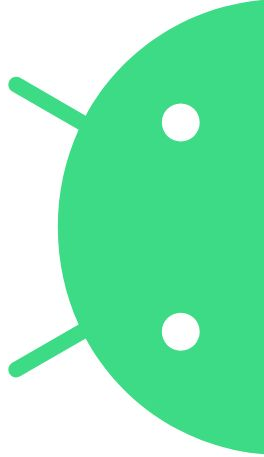
Developer Student Clubs KIET

Android Study Jams

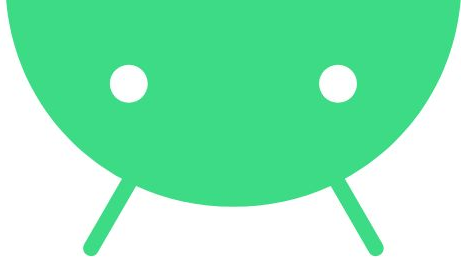
Day #2
Playing around with UIs



Before we begin...



A little bit of fun !



Time to take off !

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Prerequisites

- Basic Math Skills
- Basic Computer Literacy
- A Computer, headphones & Internet
- Willingness to learn & explore new things !

Learning Objectives

- Exploring Layouts in Android
- Playing with Views and Properties
- Build your first Android App

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Exploring Layouts in Android

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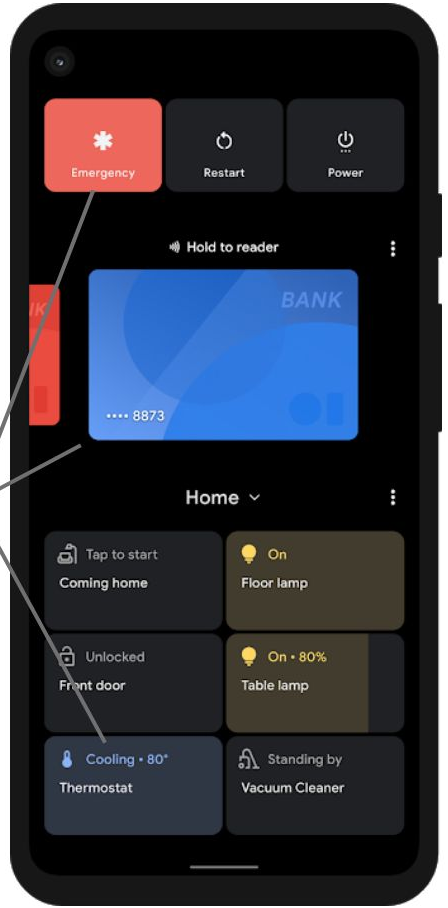
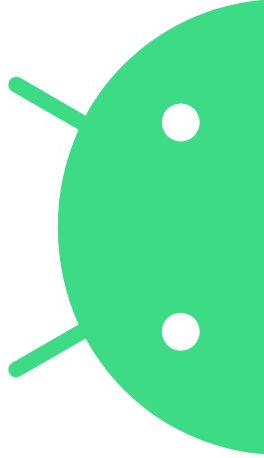
What is a Layout ?

A layout defines the structure for a user interface in your app.

What is a View ?

A View is something which a user can see, or interact with.





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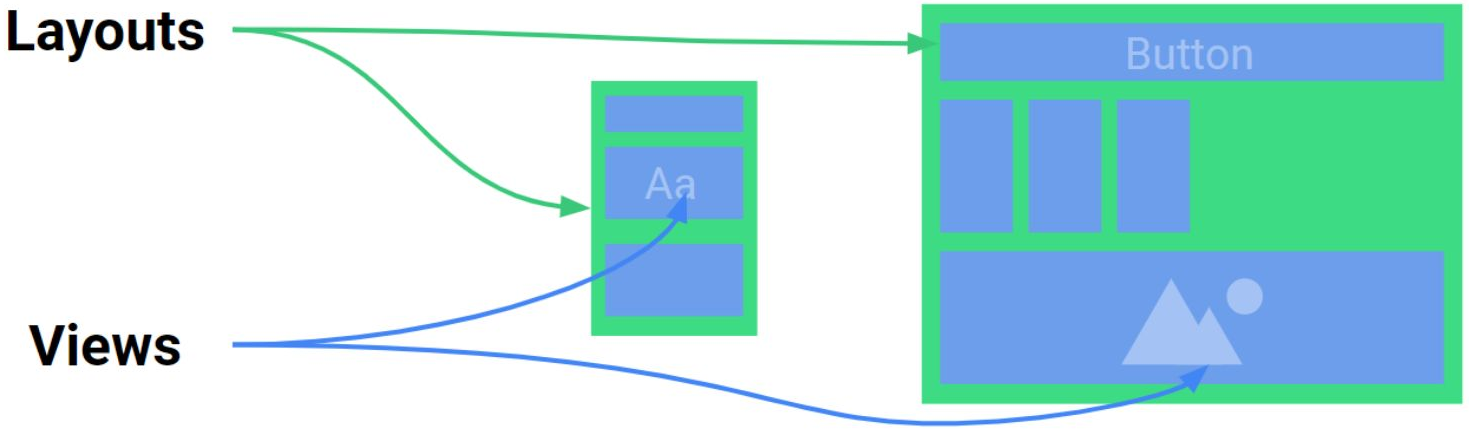
Android User Interface — An Illustration



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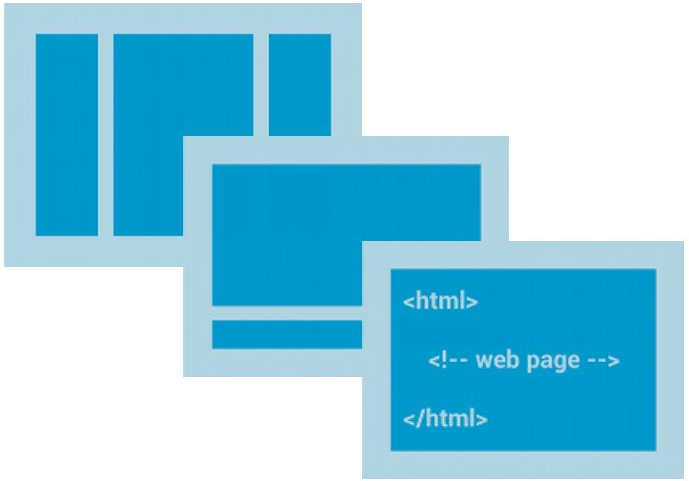
Types of Layouts

- Linear Layout
- Relative Layout
- Constraint Layout
- Coordinator Layout



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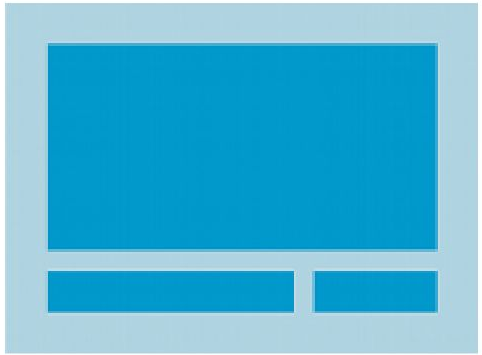
Linear Layout v/s Relative Layout

LinearLayout is a view group that aligns all children in a single direction, vertically or horizontally.



RelativeLayout is a view group that displays child views in relative positions.

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Playing with Views & Properties

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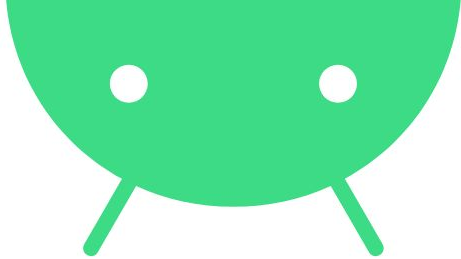

Hello Android !

TextView

ImageView

SEND

Button

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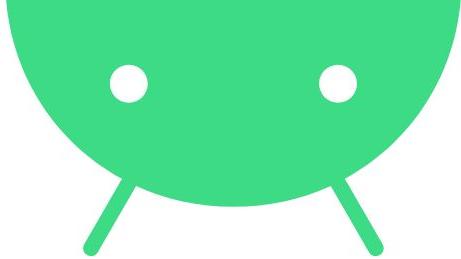

XML - The UI Language of Android

Ready for a little bit of coding ?
Don't be scared, It's easy !
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Understanding Basic Code Structure

Key Terms :

- View
- ViewGroup
- Parent & Child Views
- View ids
- Mandatory layout attributes

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
              android:layout_width="match_parent"
              android:layout_height="match_parent"
              android:orientation="vertical" >

    <TextView android:id="@+id/text"
              android:layout_width="wrap_content"
              android:layout_height="wrap_content"
              android:text="Hello, I am a TextView" />

      <Button android:id="@+id/button"
              android:layout_width="wrap_content"
              android:layout_height="wrap_content"
              android:text="Hello, I am a Button" />

</LinearLayout>
```

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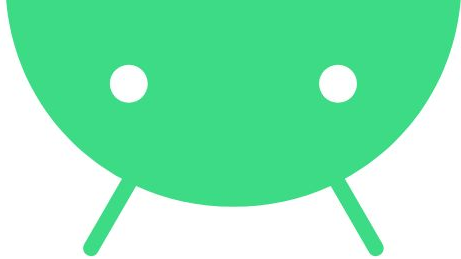

Time for some action !

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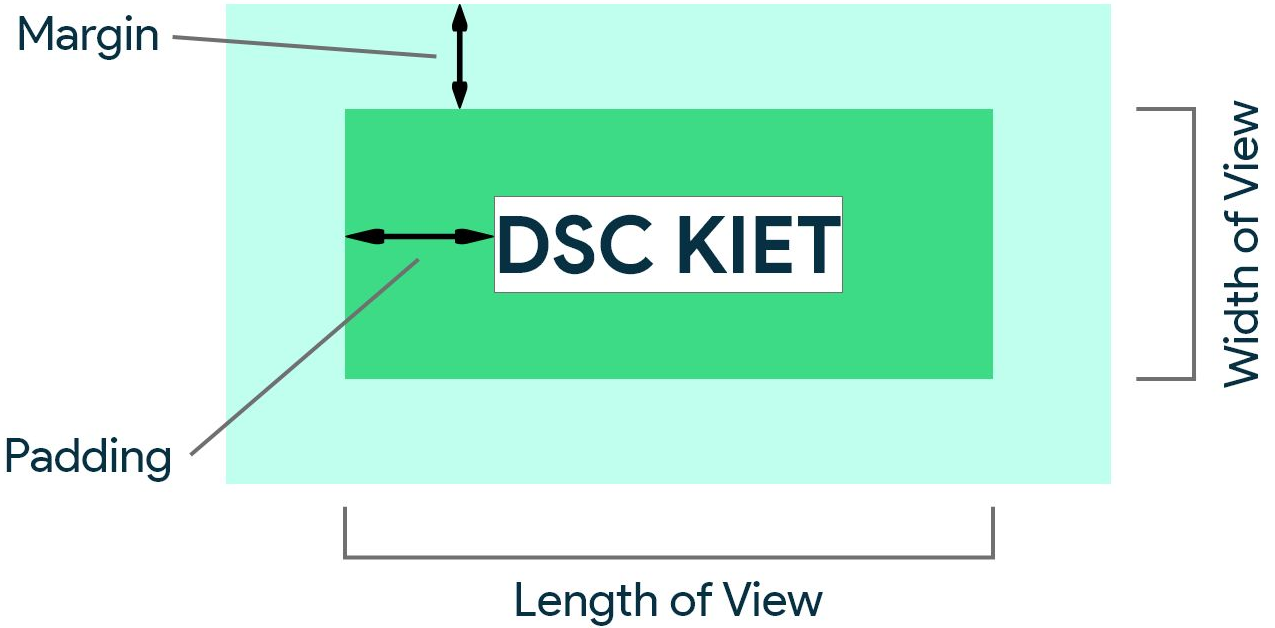
Margin & Padding —
An important UI concept



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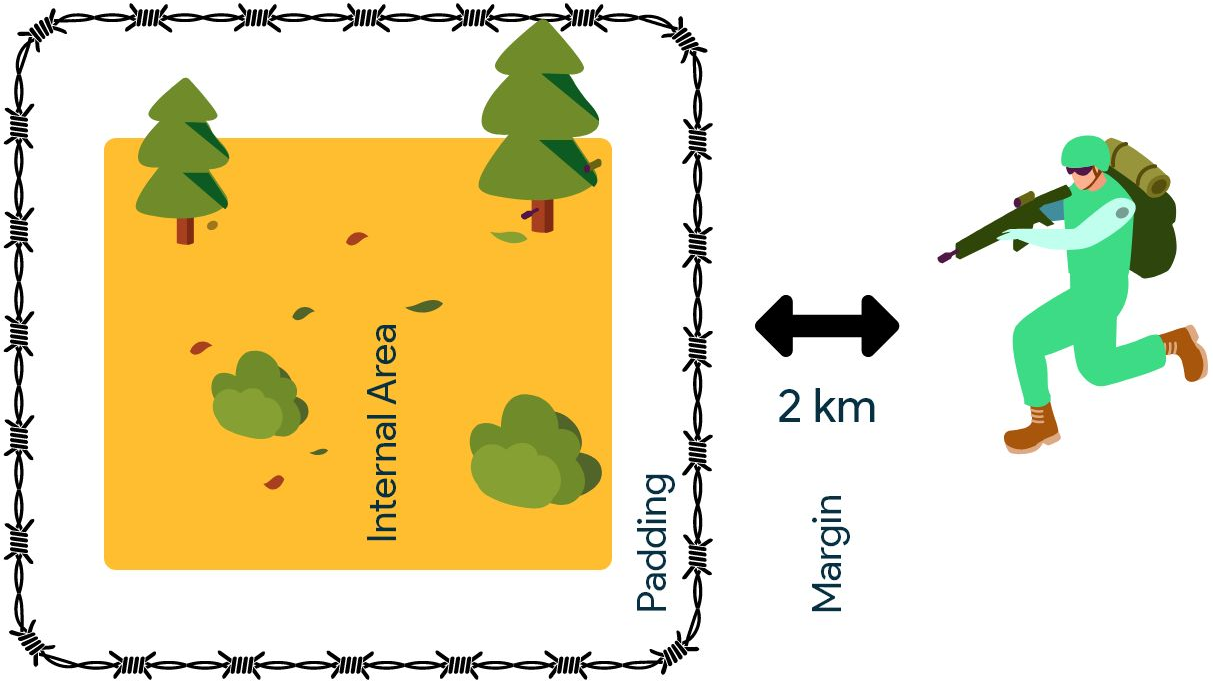
Margin & Padding — An Illustration



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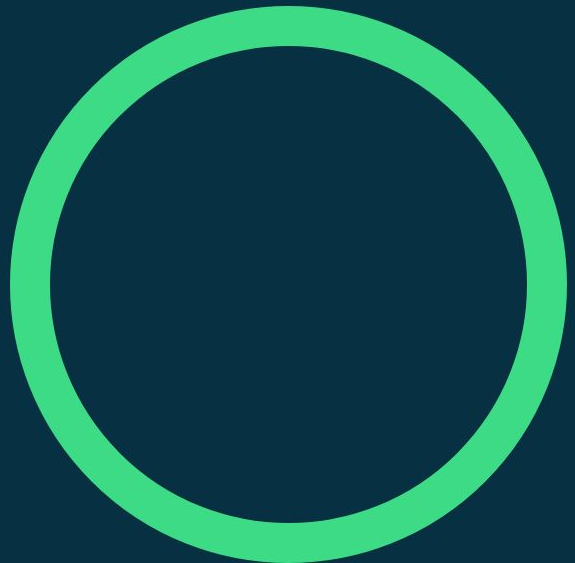
Building your first Android App



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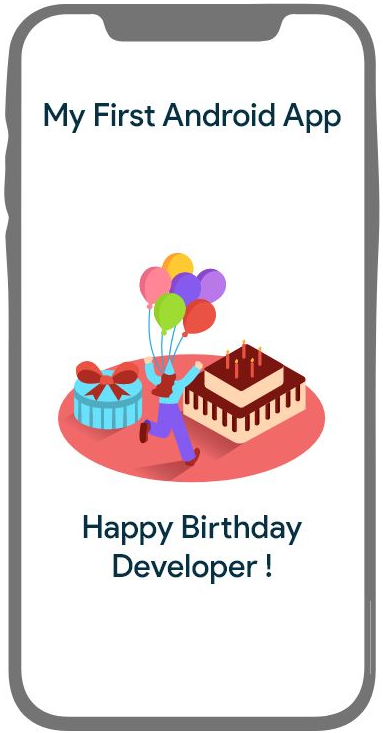
Happy Birthday App 🎂



It's Coding Time

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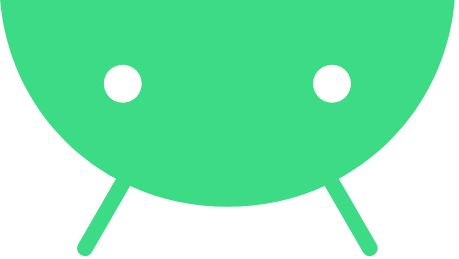

So, How did the birthday go ?

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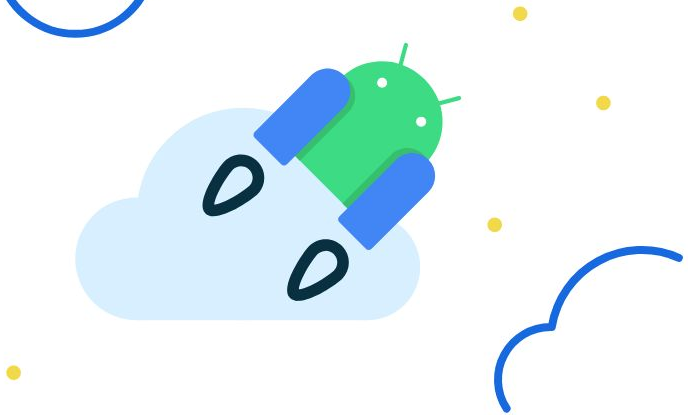
Now whether you are feeling excited or bored, let's get you a booster with a small brain teaser session !



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And, before we sign off from day #1..

Complete the pathways and earn badges
for your Google Developers Profile !

g.co/android/studyjams

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