

Android Fundamentals: ConstraintLayout

INTRODUCTION TO CONSTRAINTLAYOUT



Rebecca Franks

GOOGLE DEVELOPER EXPERT

@riggaroo riggaroo.co.za

Summary

Learn the basics about
ConstraintLayout:

- What ConstraintLayout is
- Why it exists
- How its different from other layouts
- Add ConstraintLayout to a project
- Basic Controls inside the Layout Editor

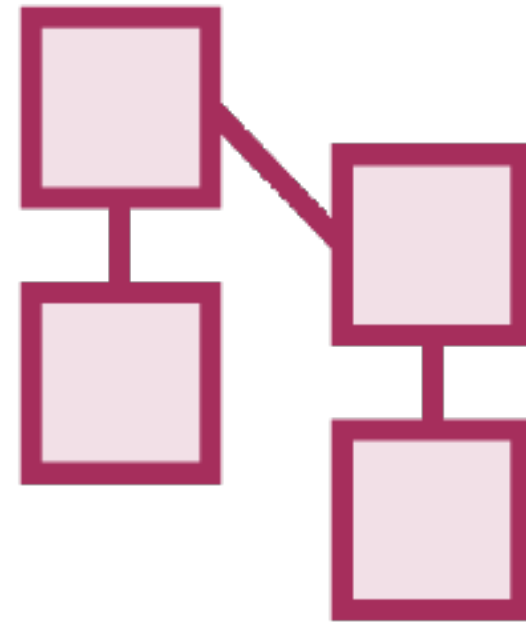
What is ConstraintLayout?



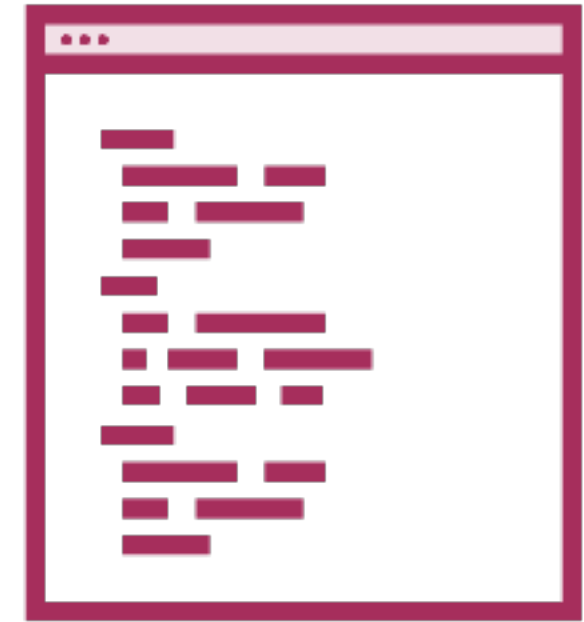
**Advanced layout
mechanism in
Android**



**Compatible with
API 9+**



**Relative
positioning with
Constraints**



**Flat View
Hierarchy**

Basic Information

Cassowary algorithm backs it
Released at Google I/O 2016
Easy mechanism for animations

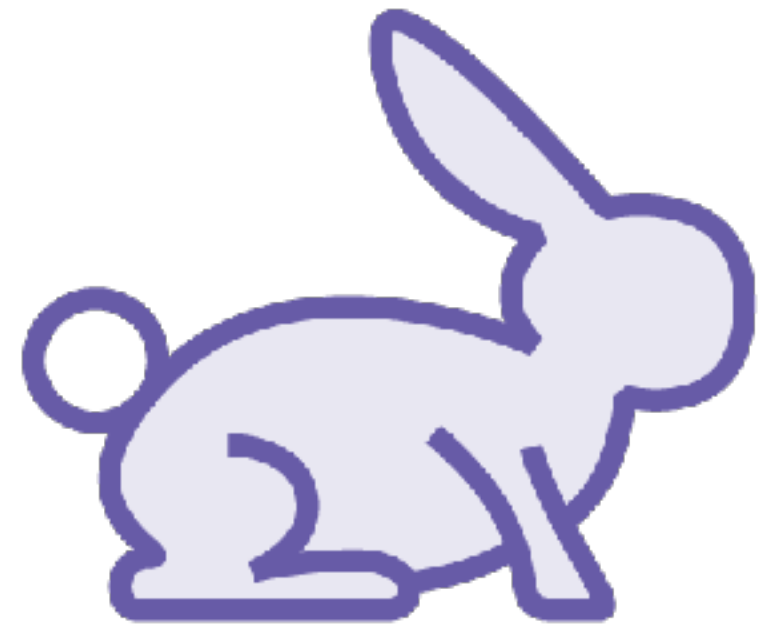
Advantages of ConstraintLayout



Simplifies layouts



Flexible controls



**Better rendering
performance**

Constraint

The relationship between two views
Controls how views will be positioned

Demo

In this demo, we will cover the following:

- Adding ConstraintLayout to a project
- Look at basic controls inside the Layout Editor

Summary

In this module, we learnt the basics about `ConstraintLayout`:

- Why we should use `ConstraintLayout`
- How to get it set up
- Creating a basic constraint
- Layout editor walkthrough