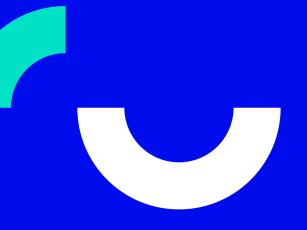


Implementing CameraX with Jetpack Compose



Introduction to CameraX



droidcon



@cafonsomota

Why is this important?

~70%*

of camera usage happens in developer made apps

*CameraX: A Jetpack support library for camera app development
<https://www.youtube.com/watch?v=QYkTXJ2TuiA>

Android Camera's SDK (1 and 2)

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- Handling portrait and landscape modes
- Image/video dimensions doesn't might not match screen size
- Limited functionalities
- Vendor modifications
- Break quite often

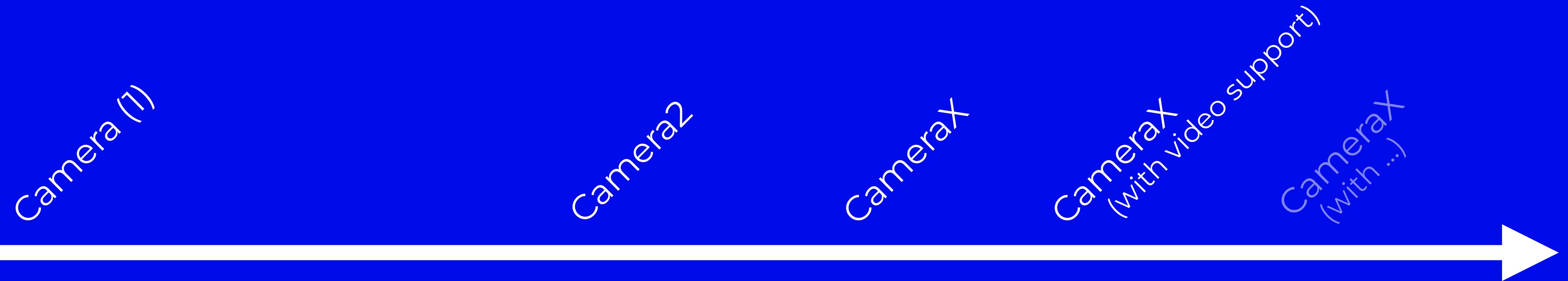
Android Camera's SDK

Legacy: android.hardware.camera

Camera2: android.hardware.camera2

CameraX: androidx.camera

A brief history of Android Camera's SDK



CameraX

Goal | solve all camera related issues and limitations

(and make developers lives easier)

CameraX

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Backward compatible until Android 5.0 (API 21)

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Tested by Google an a large range of devices

Offers the same features as the native camera

CameraX

Supported devices

developer.android.com/training/camerax/devices

CameraX

Supports the following use cases (1.2.0-alpha02):

- Preview
- Image capture
- Video capture
- Image analysis

Implementing your Camera(X)

- Take picture
- View your pictures
- Switching cameras
- Turn on/off the flash
- Zooming in and out
- Use extensions
- Recording video
- Taking pictures while recording video

Not covered

Image Analysis allows to:

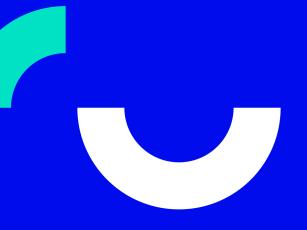
- Image processing
- Computer vision
- Machine learning inference

Implementing your Camera(X)

Let's start!



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