

# Getting Started with Android Development

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SAYING HELLO TO ANDROID



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# Prerequisites

# Prerequisites



**Object oriented  
programming**



**Modern  
programming  
language**



**Terminal  
commands**



**Installing  
developer tools**

# Overview

## **Saying Hello To Android**

- How is an Android app built and deployed?
- Where are Android apps run?

# How Is Your Android App Build and Deployed?

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## **Multiple ways to distribute your app**

- Google Play app store
- Third-party app stores;
- Direct; file sharing, internal server

# How Are Android Apps Packaged?

**.apk - Android package**

**.aab - Android App Bundle**

**Android package**

**.apk**

**Most common Android  
app distribution artifact**

**Contains code, assets,  
resources**





# Android and Open Source



## **Android embraces open source**

- Third-party libraries are common
- Third-part libraries are essential
- First-part libraries also open source
- Android Open Source Project

# Leveraging the Android Sdk



**Your app code**



**Third-party libraries**



**Android Sdk**

# The Android Sdk



**The Android Sdk is the foundation of your Android app**

- Apis
- Build tools
- Debugging and testing tools
- Evolves with the operating system

# Build and Distribute Your App



**Android Sdk**



**Third-party libraries**



**Your app code**

# Where Will Your Android App Run?

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## **Distributing your app**

- 130+ countries using Google Play
- Reach anyone with an internet connection



# 2.5 Billion Devices

As of 2019 reports, there were over 2.5 billion active Android devices globally

Over 75% Global Market Share

Android is the most popular  
mobile operating system in  
the world



# A Unique and Challenging Opportunity



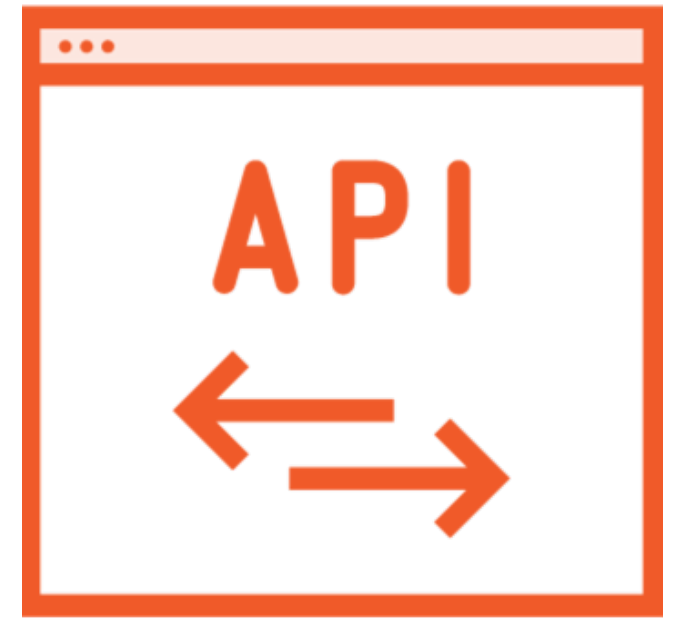
**Form Factors**



**Locales**



**Hardware**

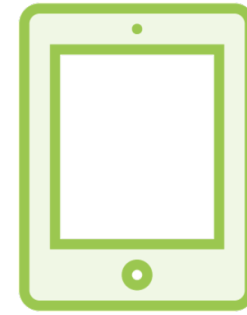


**Api Versions**

# What Form Factors Will You Support?



**Phone**



**Tablet**



**Chromebook**



**Watch**



**TV**



**Auto**

**Which locales?**  
**Which languages?**

What Locales Will You  
Support?

# What Features and Configurations Will You Support?

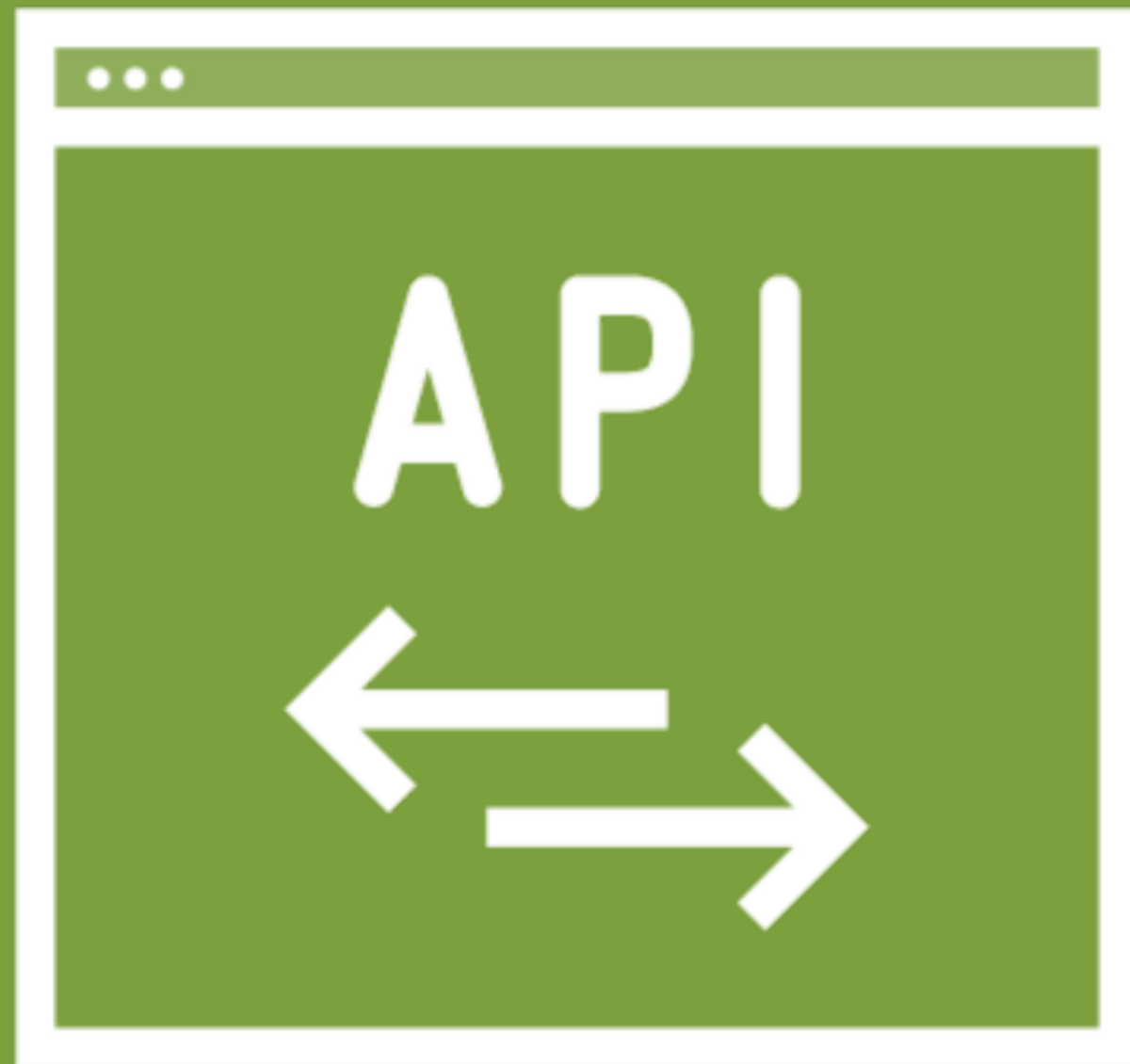
Screen orientation?

Stylus?

Keyboard?

Camera?

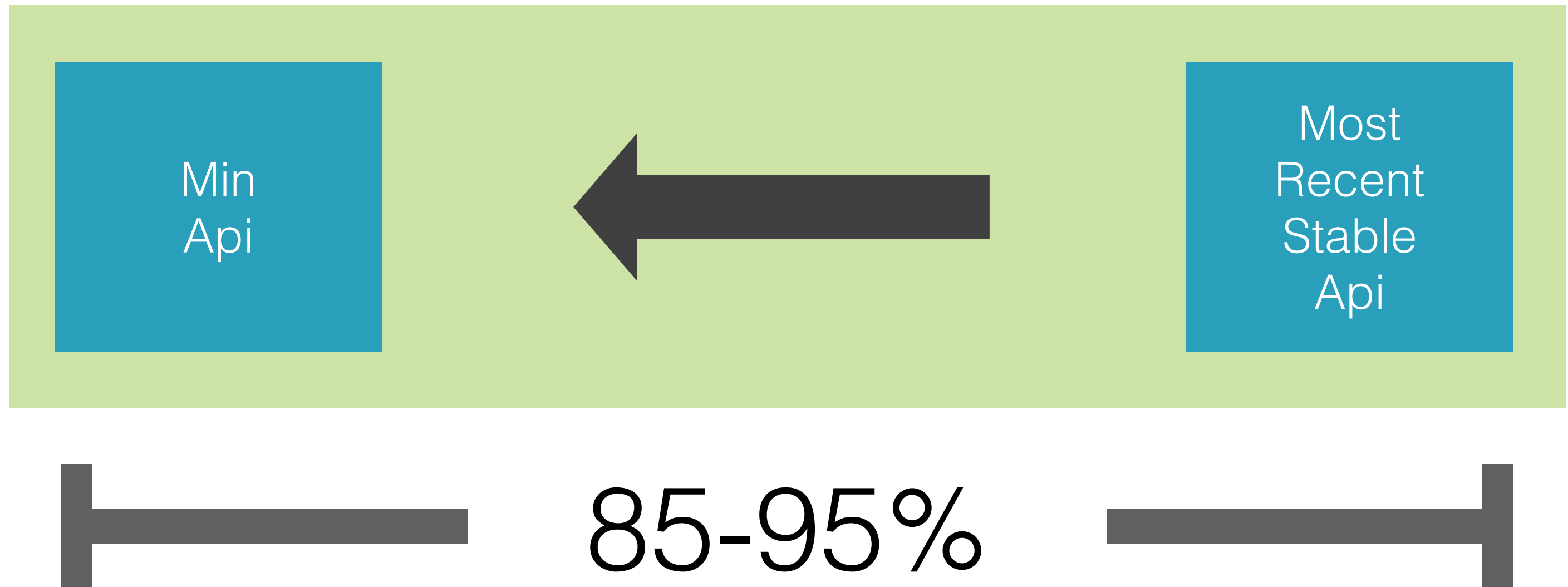
Internet?



# Android Api Versions

New versions of Android require  
new versions of the Android Sdk  
and new apis

# What Android Api Versions Will You Support?



# Demo

## **Finding your target api version**

- Developer preview
- Current stable release
- Older versions



## **Android is the most popular mobile operating system**

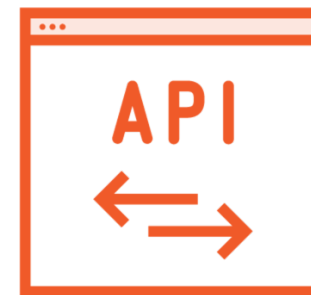
- Rich feature set
- Numerous form factors
- Global audience
- Global developer community



# How Will You Build and Distribute Your App?



**Devices and form factors**



**Api versions and locales**



**Value and features**

## **Consider your own app**

- How will you distribute your app?
- What features, form factors, locales, and api versions will your app require?