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Sejam bem-vindos!



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# Preparando o ambiente Android Studio

## Hybrid Mobile App Development



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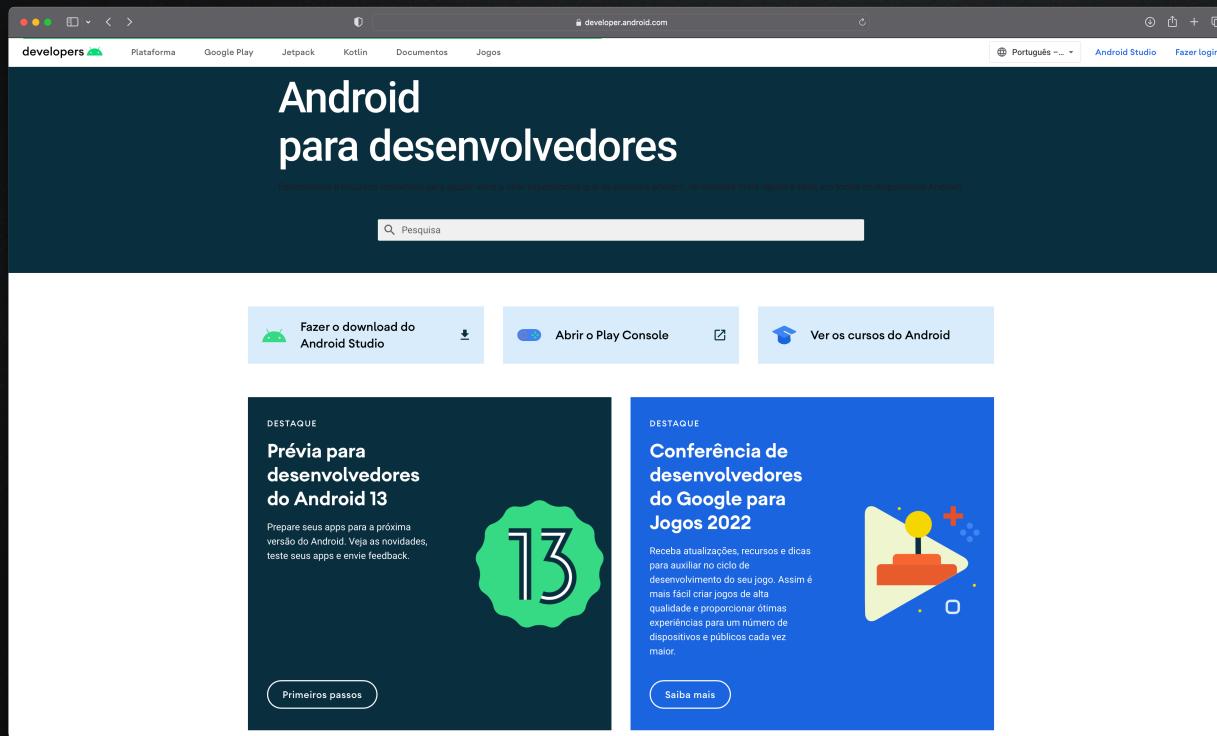
# SOBRE

Criada em Maio de 2013 como preview e liberada oficialmente em Dezembro de 2013, é uma IDE criada pela [JetBrains](#) desenhada especificamente para desenvolvimento de aplicativos Android. Antes disso, se usava um plugin do Eclipse.

A linguagem nativa de um aplicativo Android é Java e a partir de Maio de 2019 eles anunciaram Kotlin como linguagem recomendada, mas ainda o suporte linguagem Java ainda existe.

# SOBRE

Site para download: <https://developers.android.com>



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INSTALAÇÃO

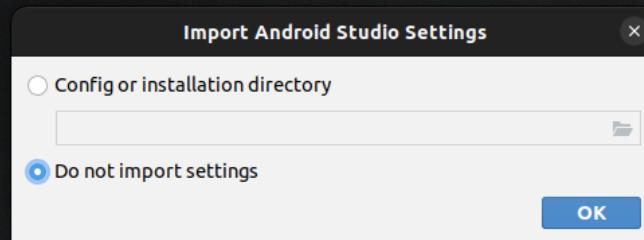
# INSTALANDO

URL: <https://developer.android.com/studio>

The image shows two screenshots side-by-side. On the left is the official Android Studio download page from developer.android.com. It features a navigation bar with links for Platform, Android Studio (which is underlined), Google Play, Jetpack, Kotlin, Docs, and Games. Below the navigation is a search bar with the placeholder "Search". Under the heading "ANDROID STUDIO", there are links for "Download", "What's new", "User guide", and "Preview". A large green button at the bottom says "Download Android Studio Electric Eel". On the right is a screenshot of the Android Studio IDE. The interface includes a code editor showing Java code for a "SnackCollection" class, a preview window displaying a mobile application interface for a snack delivery app, and various toolbars and panels like Layout Inspector, Layer Spacing, and Network inspector.

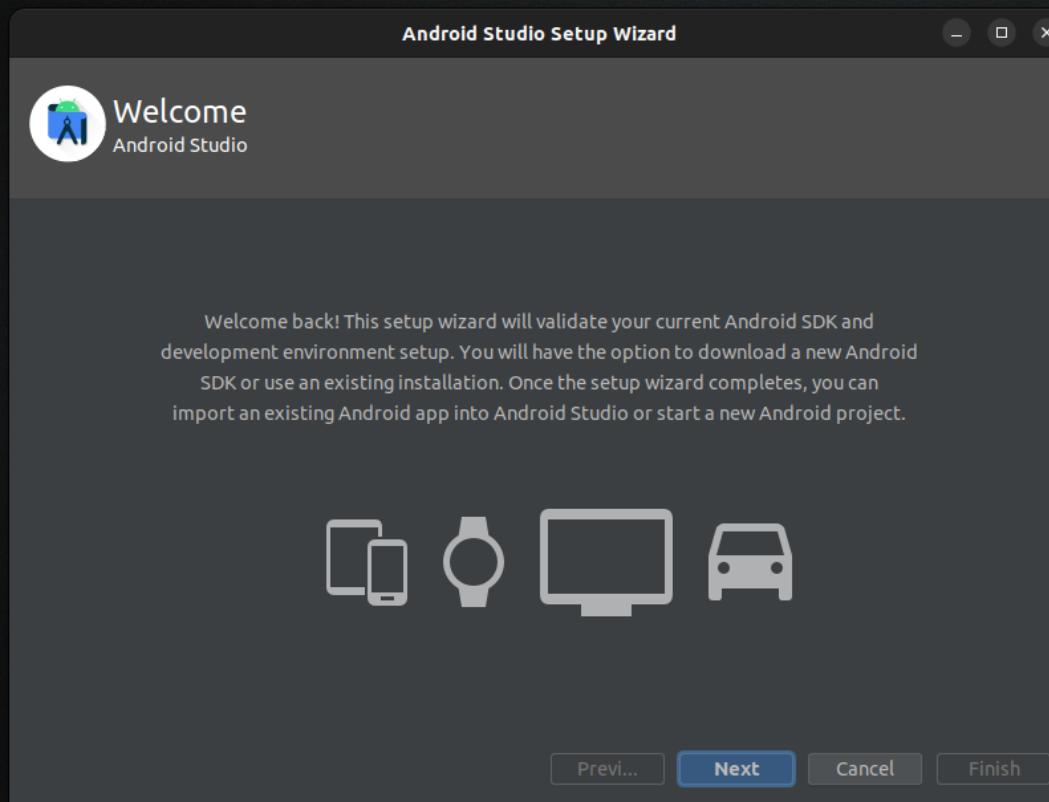
# INSTALANDO

Se deseja importar alguma configuração prévia



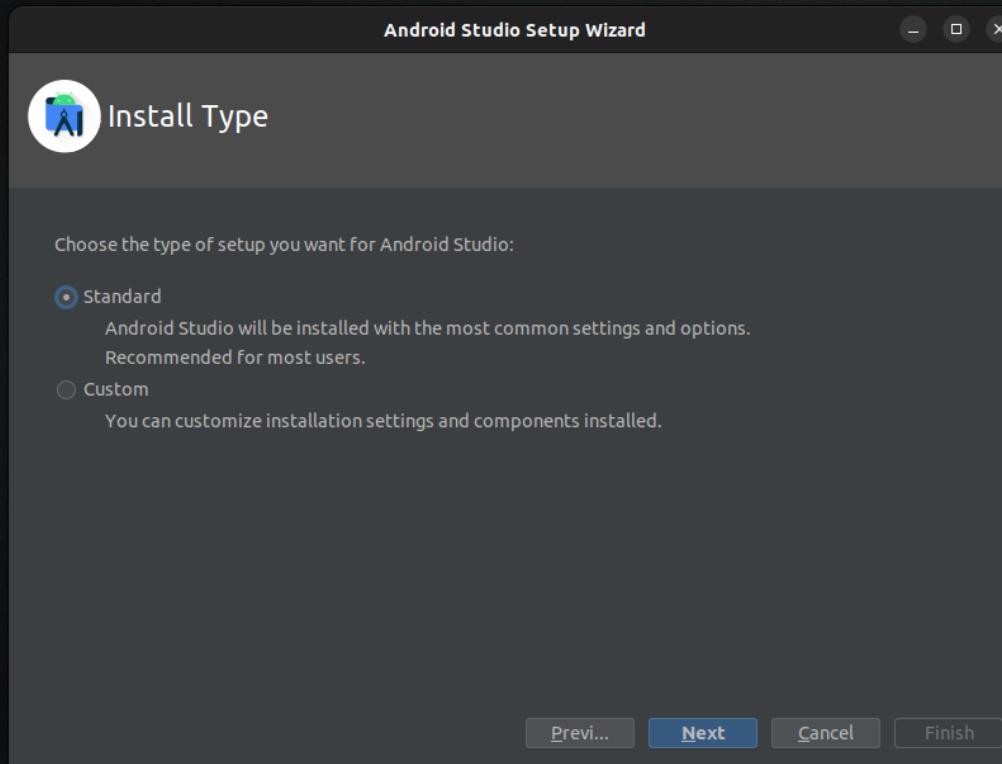
# INSTALANDO

Tela inicial



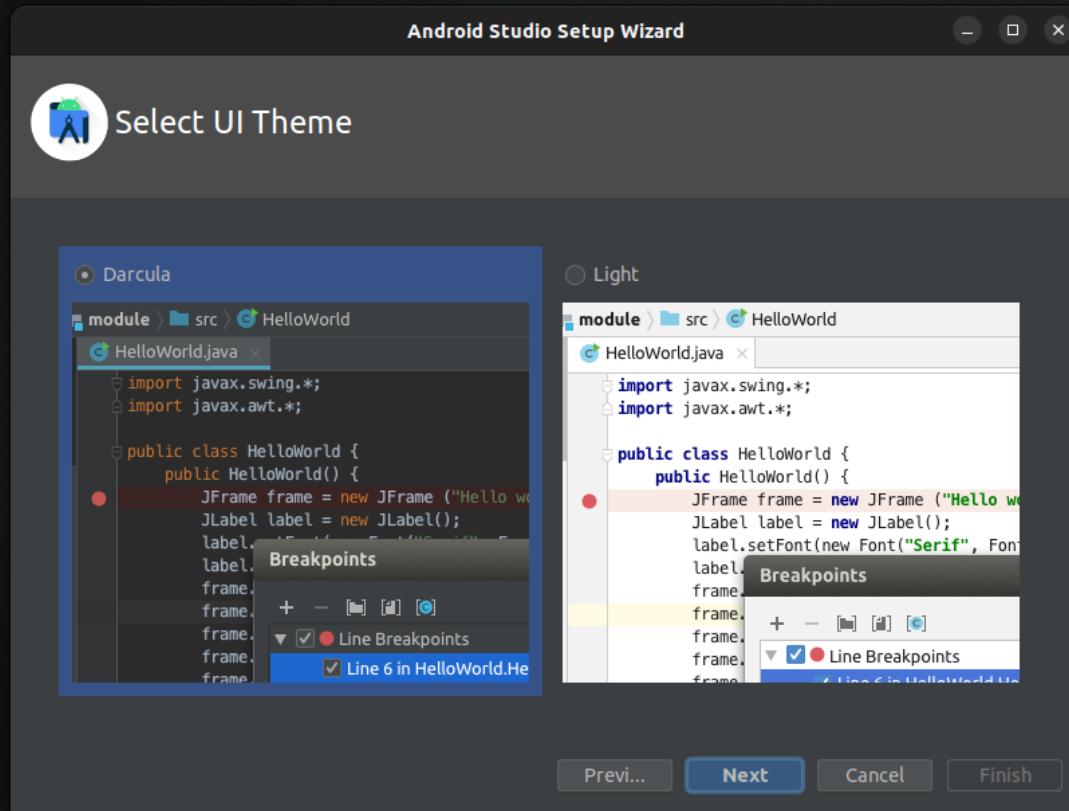
# INSTALANDO

Tipo de instalação. Aqui você pode selecionar entre a instalação padrão ou customizada



# INSTALANDO

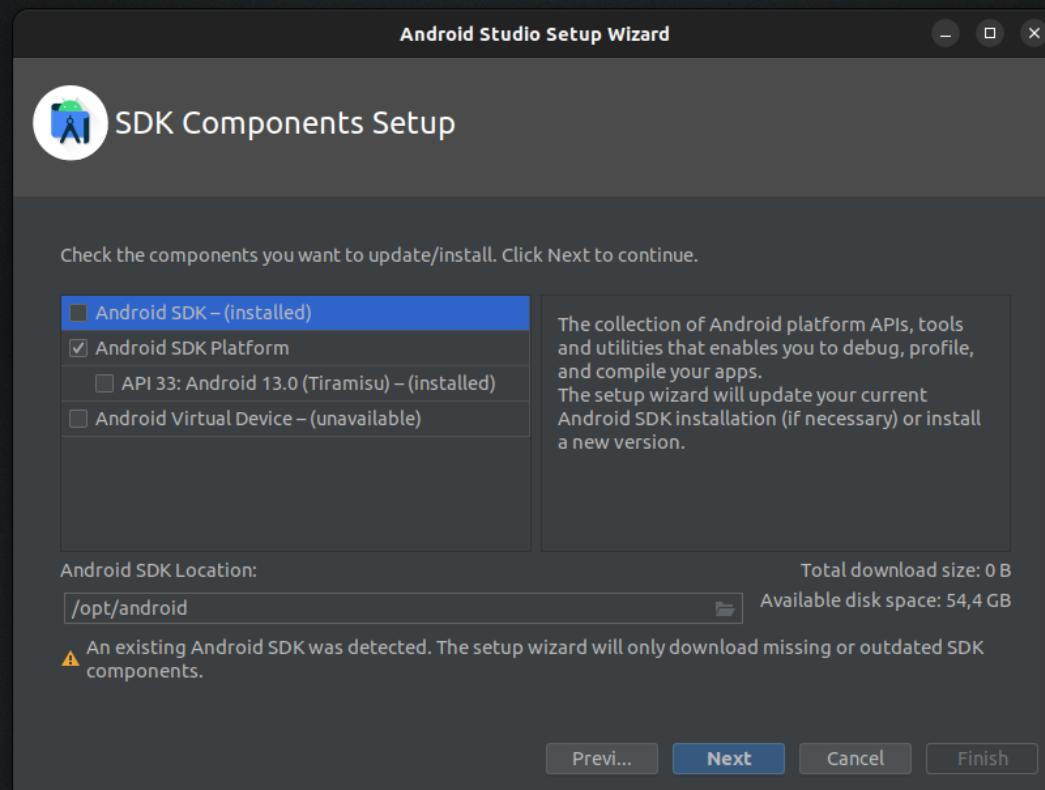
## Seleção de tema



# INSTALANDO

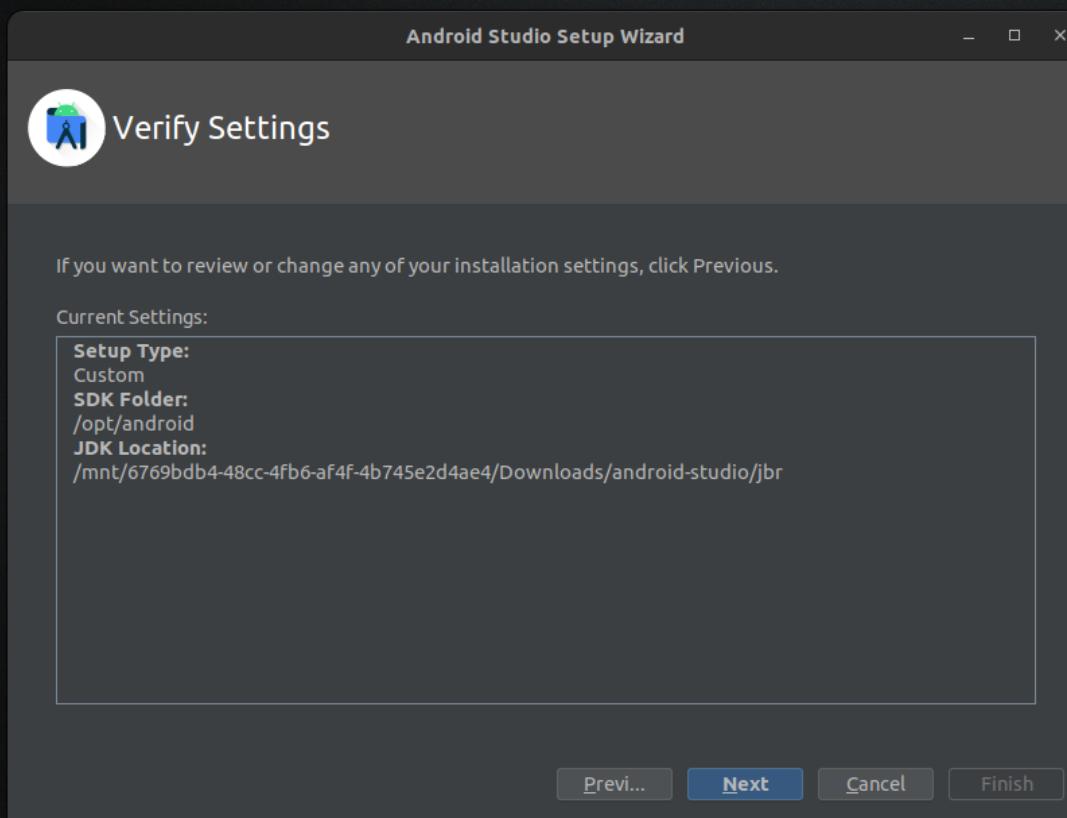
- Seleção de SDKs. Nesse primeiro momento ele te disponibiliza apenas a última versão do SDK. Mas dentro da IDE é possível selecionar as outras opções.

SDK = Software Development Kit



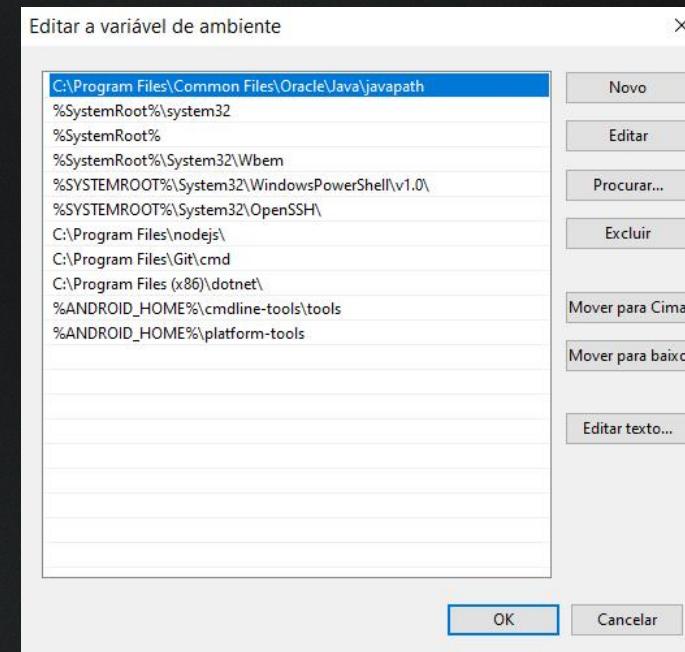
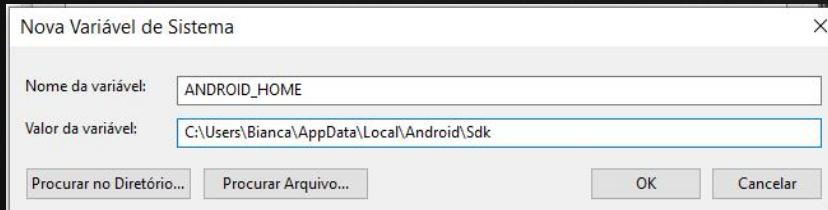
# INSTALANDO

## Revisão da instalação



# INSTALANDO

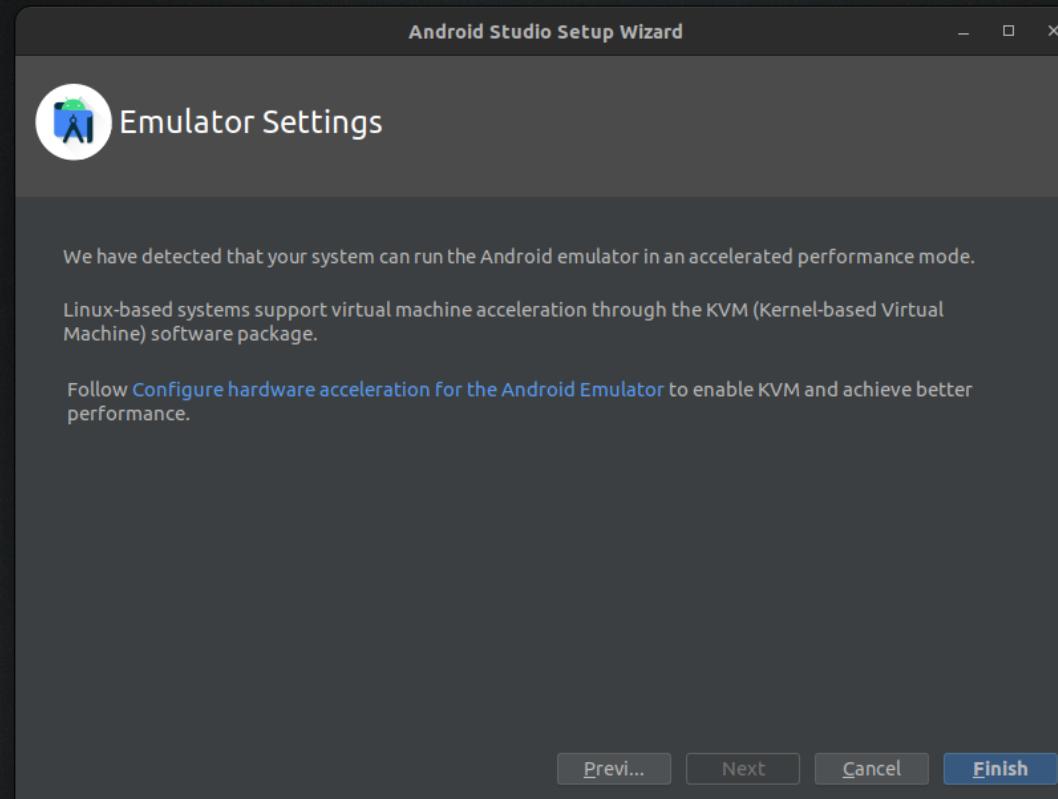
- Adicione uma variável de ambiente no Sistema Operacional chamada **ANDROID\_HOME**, onde o valor dela é igual ao que apareceu no **SDK Folder** do passo anterior. Depois, adicione no path **%ANDROID\_HOME%\platform-tools**, conforme imagens abaixo



# INSTALANDO

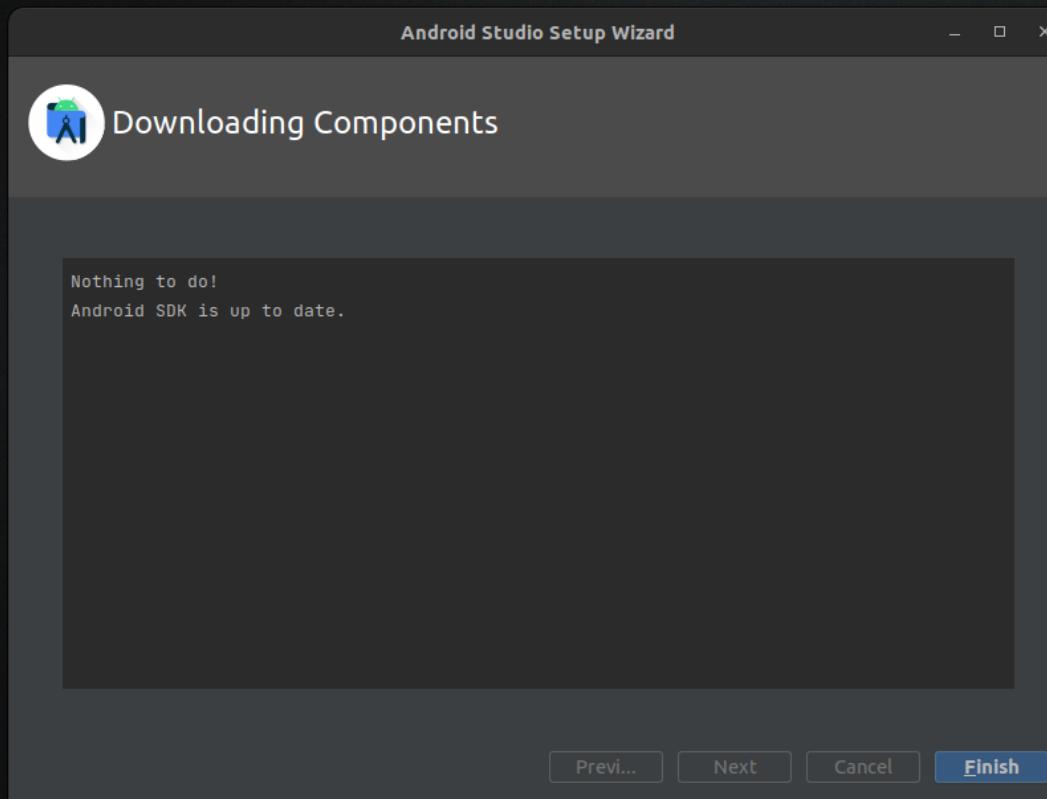
- Configuração do Emulador.  
Caso essa tela apareça,  
siga a recomendação do  
[link "Configure aceleração  
de hardware para o  
emulador de Android".](#)

- Emulador do Android  
costuma ser bem pesado,  
então toda melhoria de  
performance dele é bem-  
vinda.



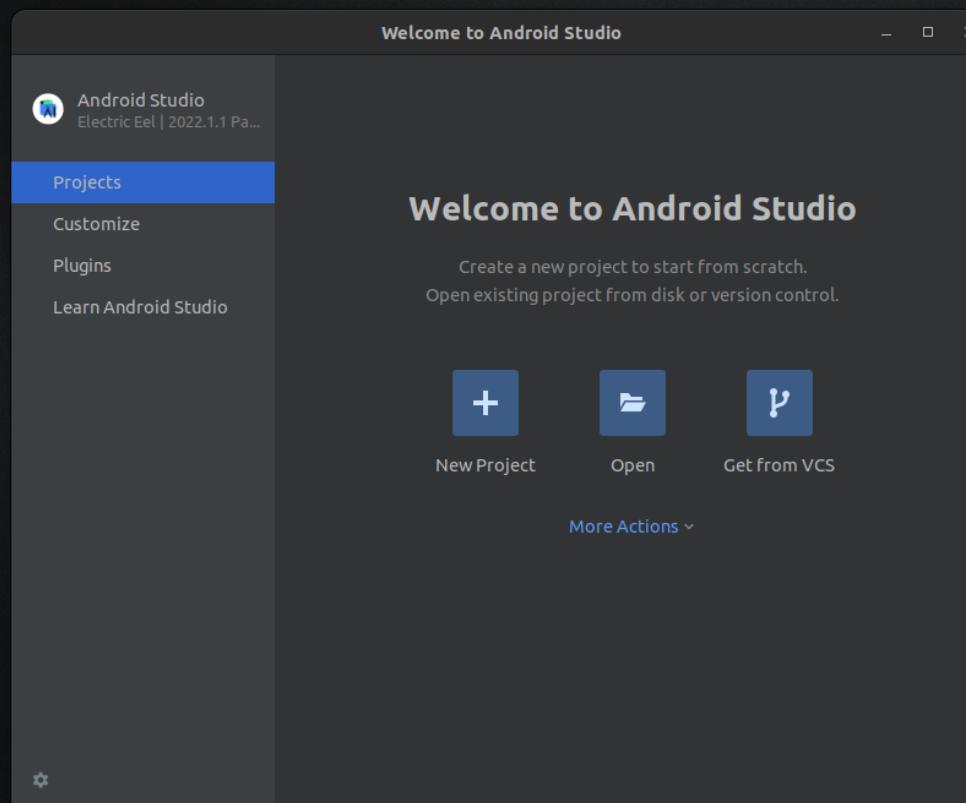
# INSTALANDO

Download dos componentes necessários



# INSTALANDO

## Tela Inicial



# INSTALANDO - ALTERNATIVA

Caso não queira usar o Android Studio, é possível usar o pacote Command Line Tools. Com ele, você não precisa instalar o Android Studio, mas como o nome sugere, é tudo feito via linha de comando. Recomendado para usuários avançados e/ou para máquina sem muitos recursos. Para mais detalhes, segue o [link](#).

The screenshot shows the 'Android Studio' section of the Android Developers website. At the top, there are tabs for 'Platform', 'Android Studio' (which is selected), 'Google Play', 'Jetpack', 'Kotlin', 'Docs', and 'Games'. Below the tabs, there's a search bar with the placeholder 'Search'. Under the 'Android Studio' tab, there are links for 'Download', 'What's new', 'User guide', and 'Preview'. The 'Download' link is underlined. The main content area displays a table for the 'Chrome OS' version of Android Studio, showing the file name 'android-studio-2022.1.1.20-cros.deb', size '805.3 MB', and SHA-256 checksum '5dd13ca2c2471e9bc6eb2d943ddfe30a0f17c2f6c5c3ae08878ab4c02bacef'. Below the table, it says 'More downloads are available in the [download archives](#). For Android Emulator downloads, see the [Emulator download archives](#)'. A bold heading 'Command line tools only' is centered below the table. Another table follows, listing 'Platform', 'SDK tools package', 'Size', and 'SHA-256 checksum' for Windows, Mac, and Linux. At the bottom, a note states: 'Command-line tools are included in Android Studio. If you do not need Android Studio, you can download the basic Android command-line tools above. You can use the included [sdkmanager](#) to download other SDK packages.'

| Platform | SDK tools package                                         | Size     | SHA-256 checksum                                                 |
|----------|-----------------------------------------------------------|----------|------------------------------------------------------------------|
| Windows  | <a href="#">commandlinetools-win-9477386_latest.zip</a>   | 133.5 MB | 696431978daadd33a28841320659835ba8db8080a535b8f35e9e60701ab8b491 |
| Mac      | <a href="#">commandlinetools-mac-9477386_latest.zip</a>   | 133.5 MB | 2072ffce4f54cdc0e6d2074d2f381e7e579b7d63e915c220b96a7db95b2900ee |
| Linux    | <a href="#">commandlinetools-linux-9477386_latest.zip</a> | 133.5 MB | bd1aa17c7ef10066949c88dc6c9c8d536be27f992a1f3b5a584f9bd2ba5646a0 |

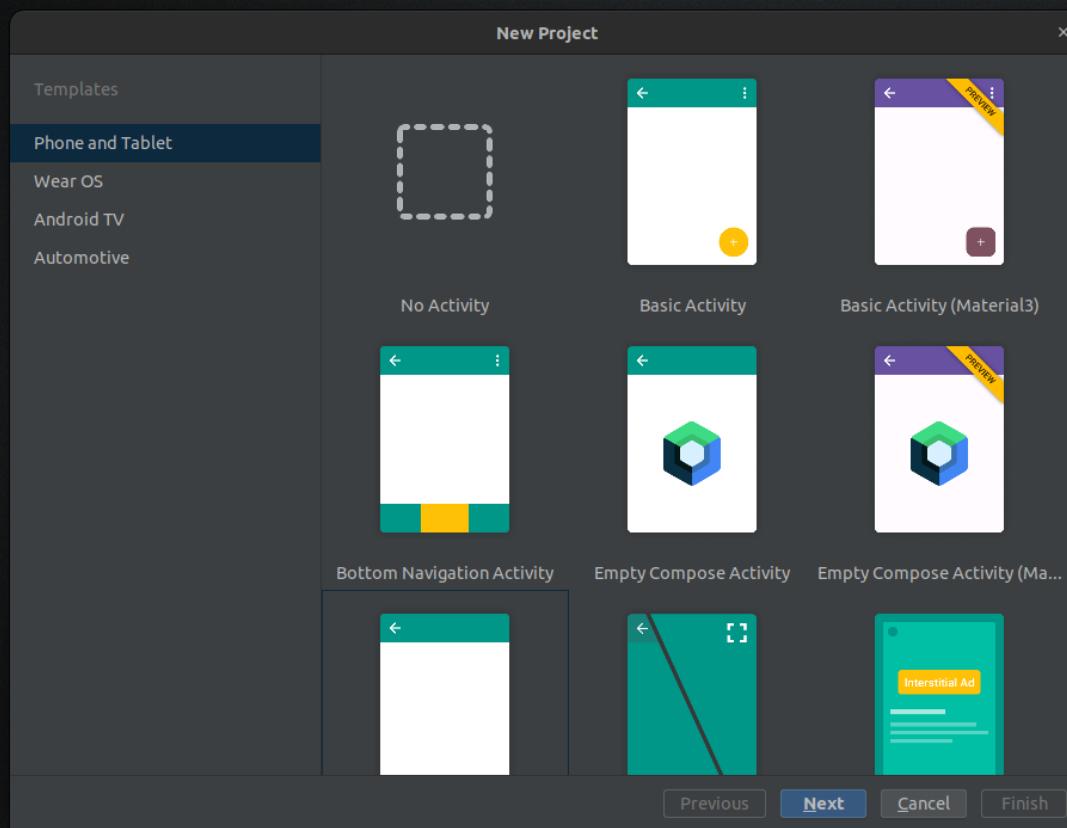
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PROJETO

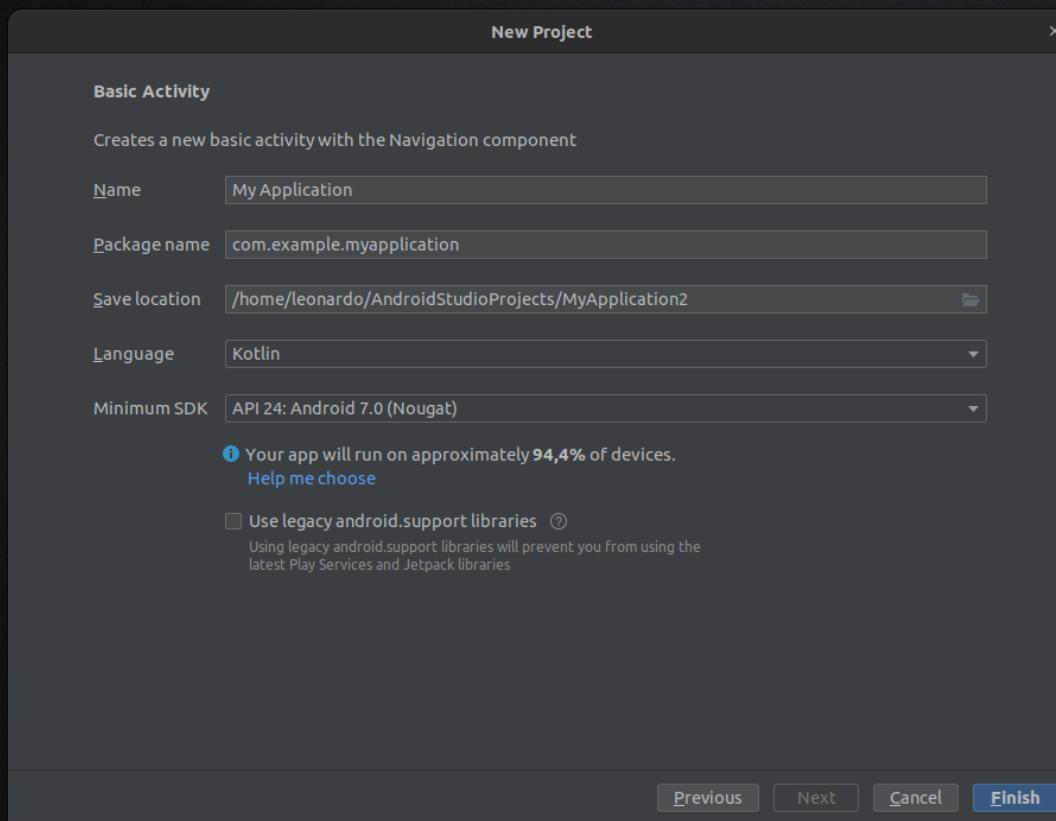
# PROJETO

- Para criar um projeto, basta selecionar a opção "New Project" para aparecer a seguinte tela



# PROJETO

## Configurações básicas do projeto



# PROJETO

## Estrutura do projeto no Android Studio

The screenshot shows the Android Studio interface with the following details:

- Project Structure:** The left sidebar shows the project structure under "My Application2". It includes the "app" module with subfolders like "Android", "manifests", "Java", "res", and "Gradle Scripts".
- MainActivity.kt:** The main code editor window displays the Kotlin code for the MainActivity. The code initializes an ActivityMainBinding, sets up the toolbar, and handles navigation.
- Logcat:** The bottom right pane shows the Logcat window, which has been updated to make it easier to parse, query, and keep track of logs. It includes sections for "What's New in Electric Eel" and "New Logcat".
- Bottom Bar:** The footer bar includes tabs for Version Control, TODO, Problems, Terminal, App Inspection, Logcat, App Quality Insights, Services, Build, and Profiler. A message at the bottom encourages improving Android Studio performance by increasing the heap size.

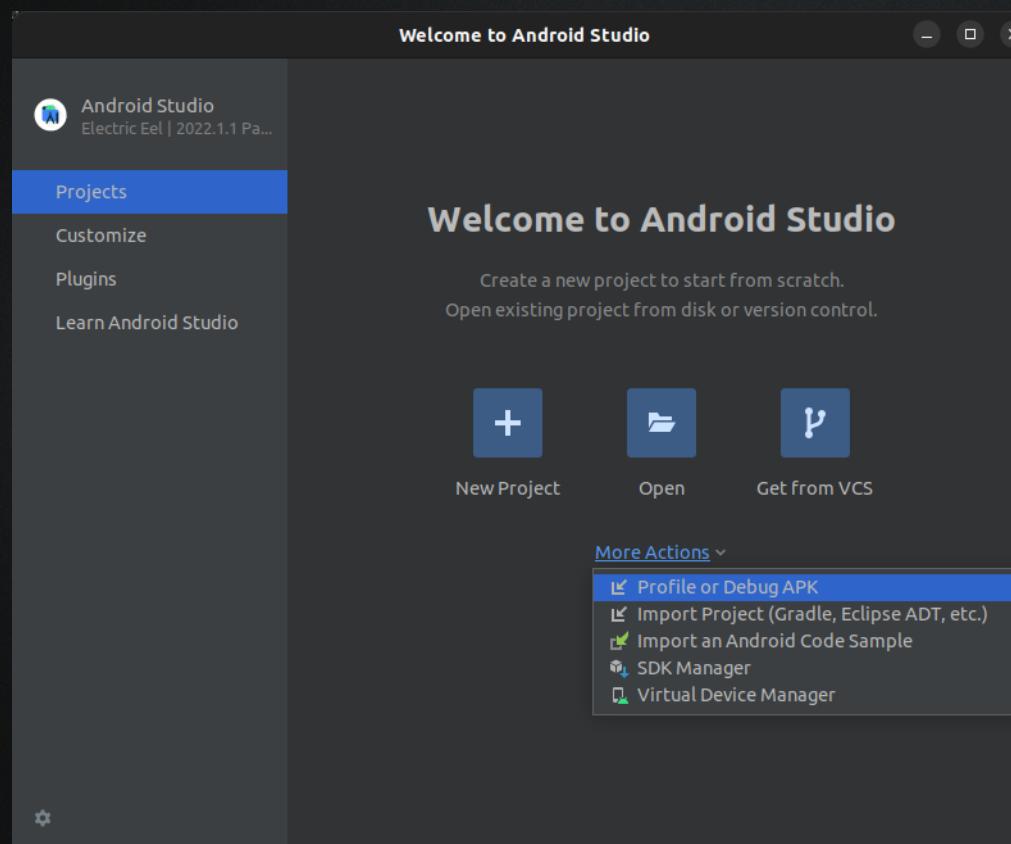
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EMULADOR

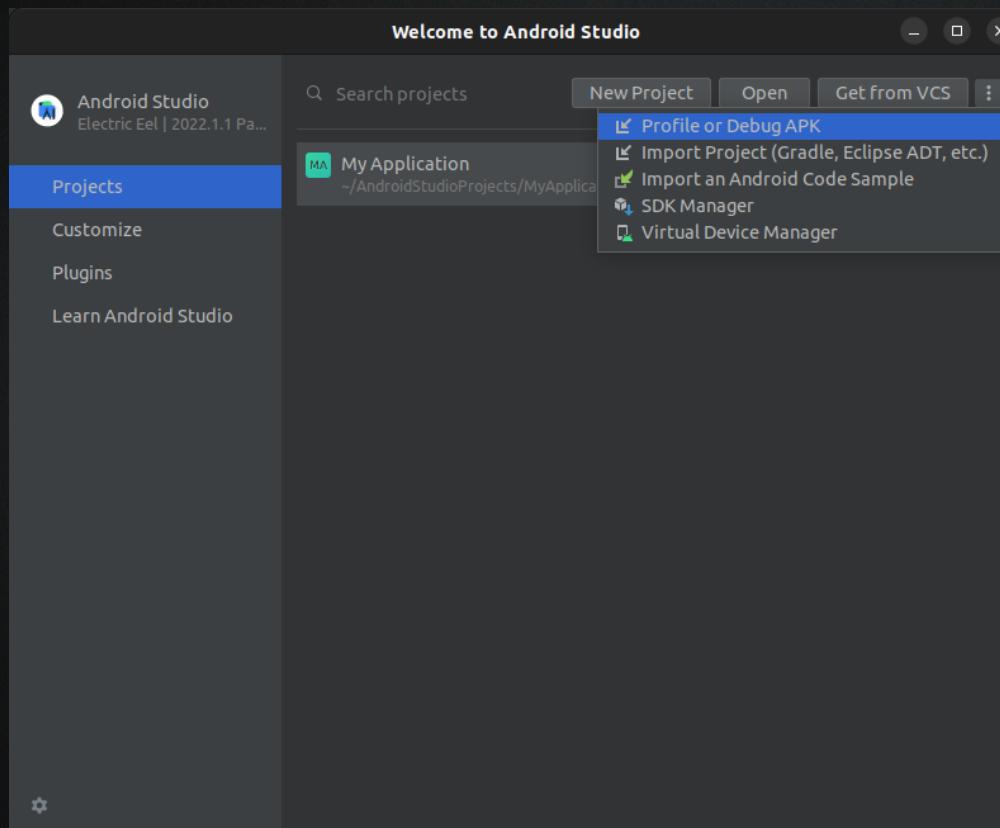
# EMULADOR

- Para criar um emulador, basta selecionar a opção "Virtual Device Manager"



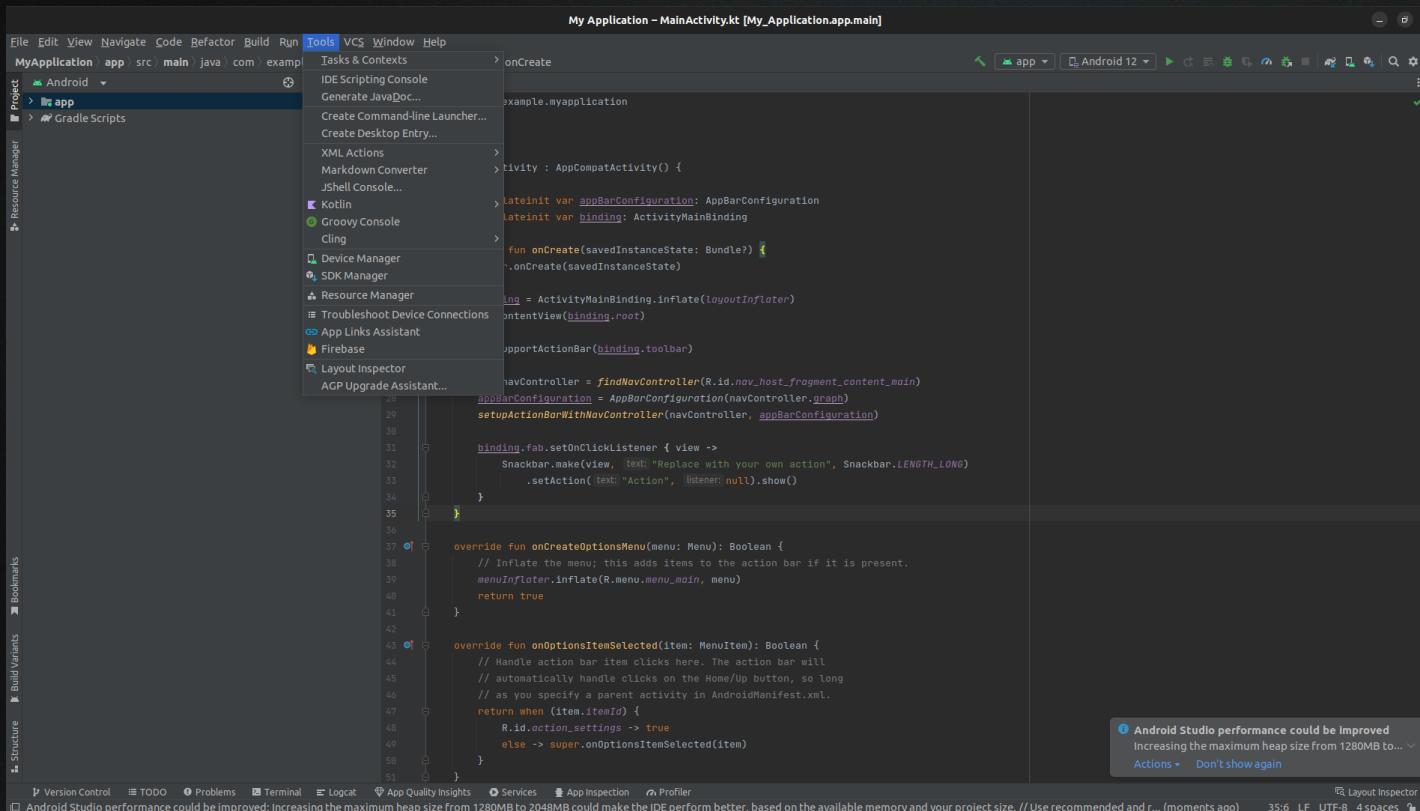
# EMULADOR

- Para criar um emulador, basta selecionar a opção "Virtual Device Manager"



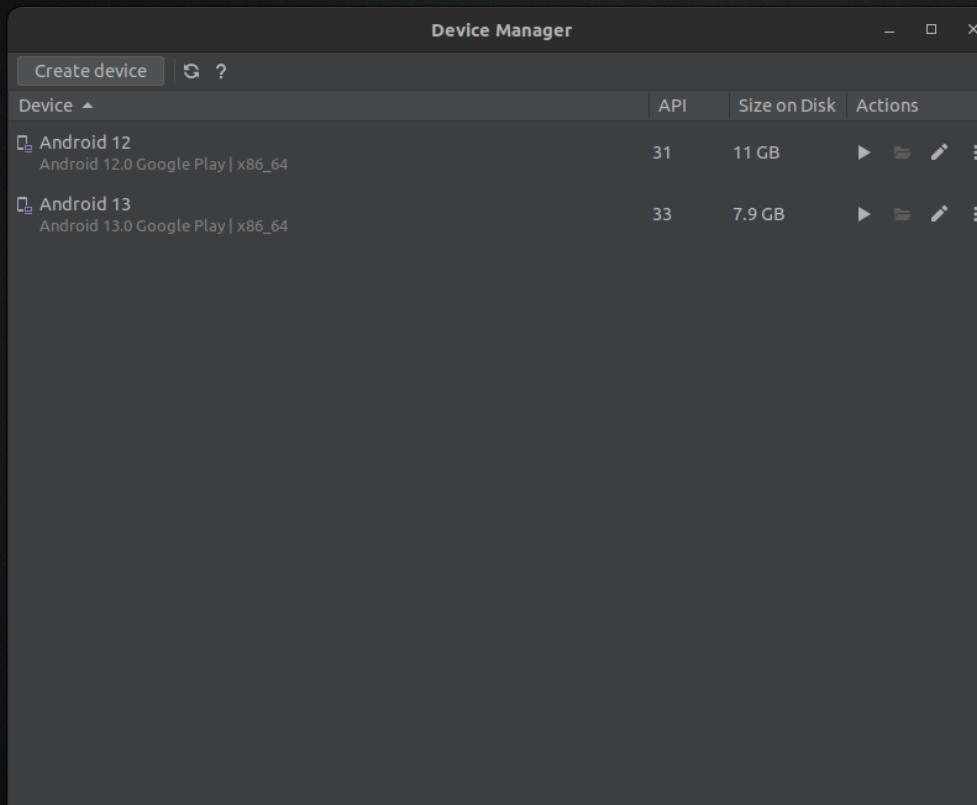
# EMULADOR

- Para criar um emulador, basta selecionar a opção "Virtual Device Manager"



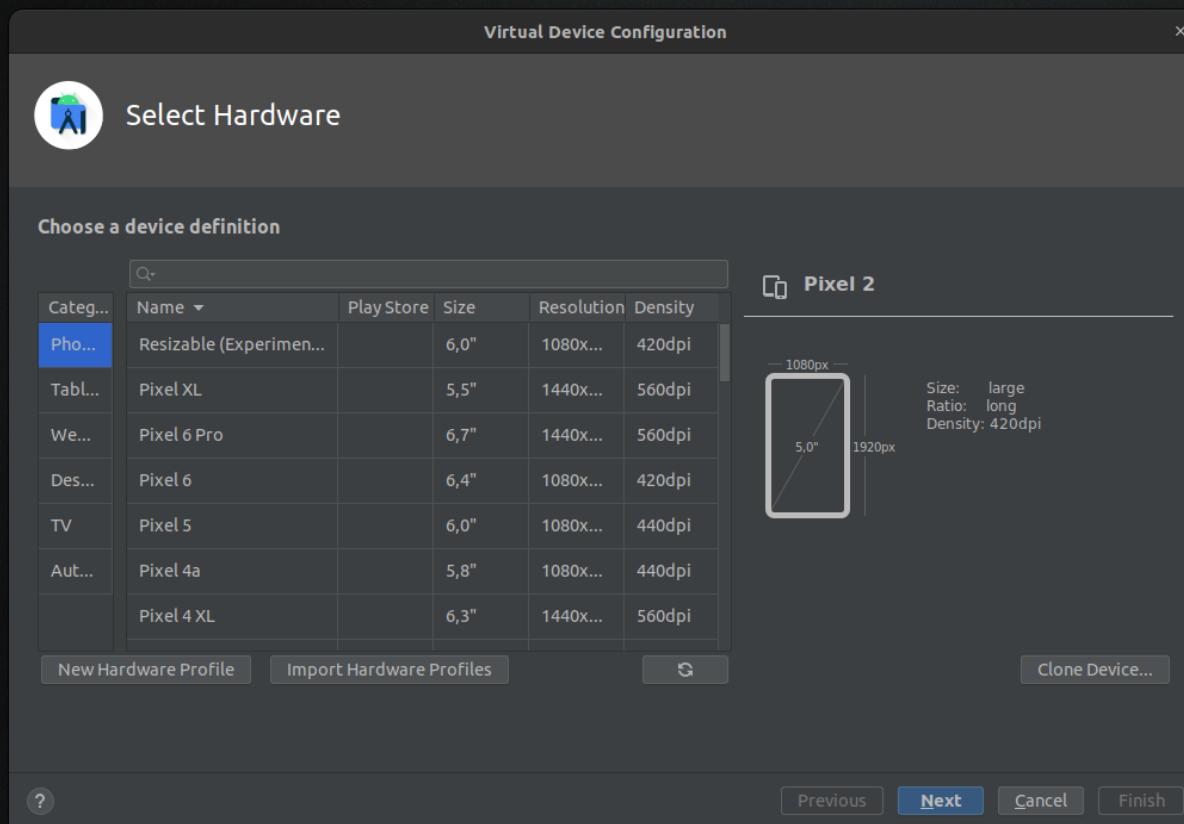
# EMULADOR

- Tela de gerenciamento de emuladores



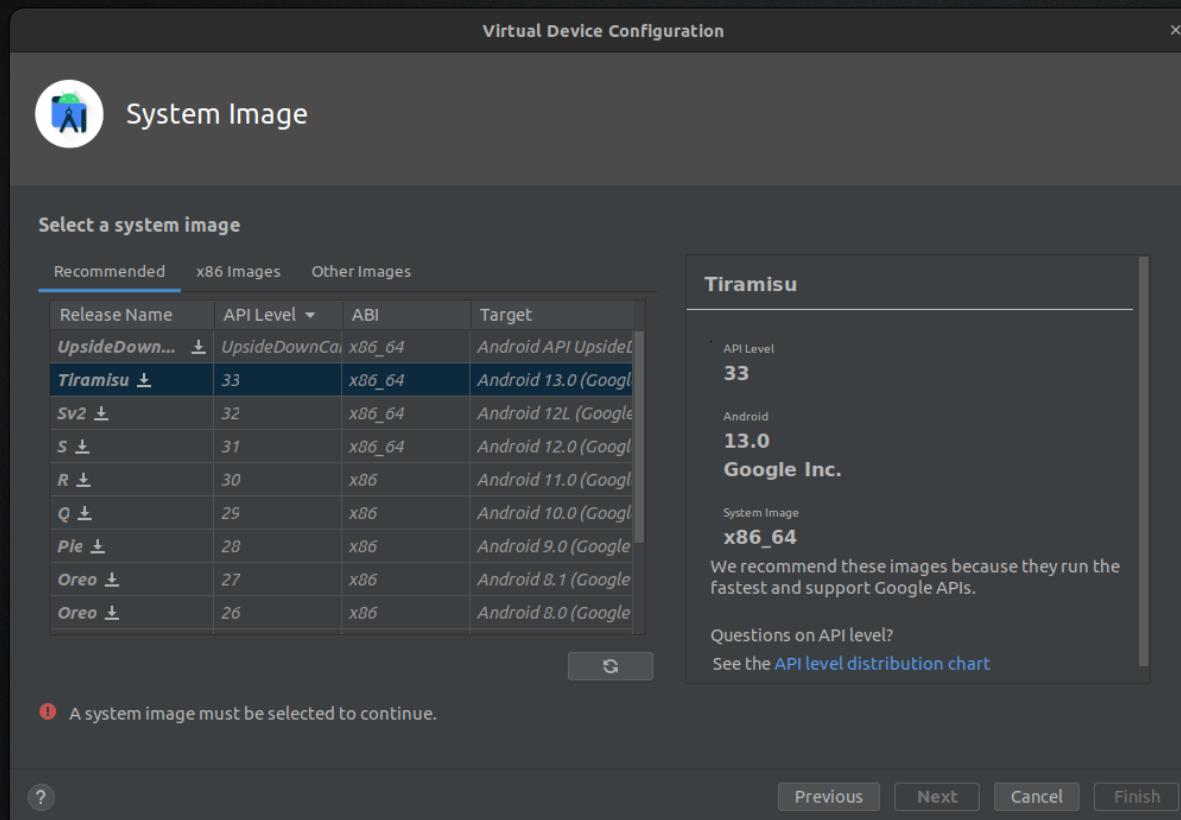
# EMULADOR

- Ao clicar no botão "Create Device", aparecerá a seguinte tela



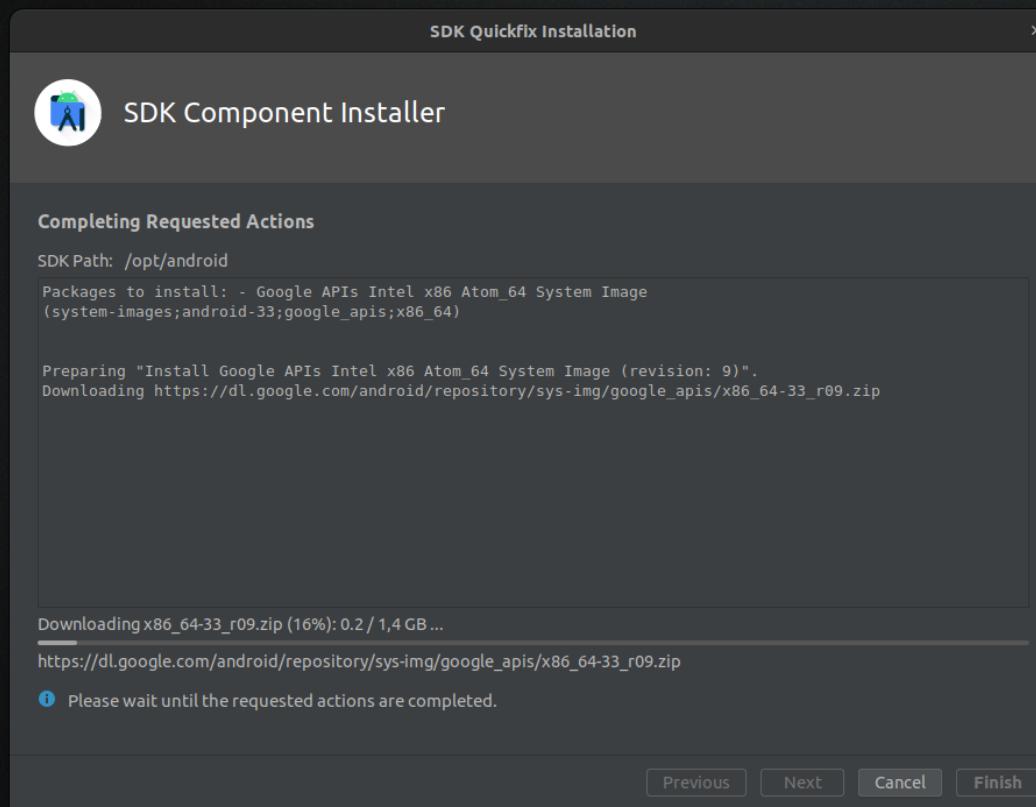
# EMULADOR

## Seleção de imagens de sistema



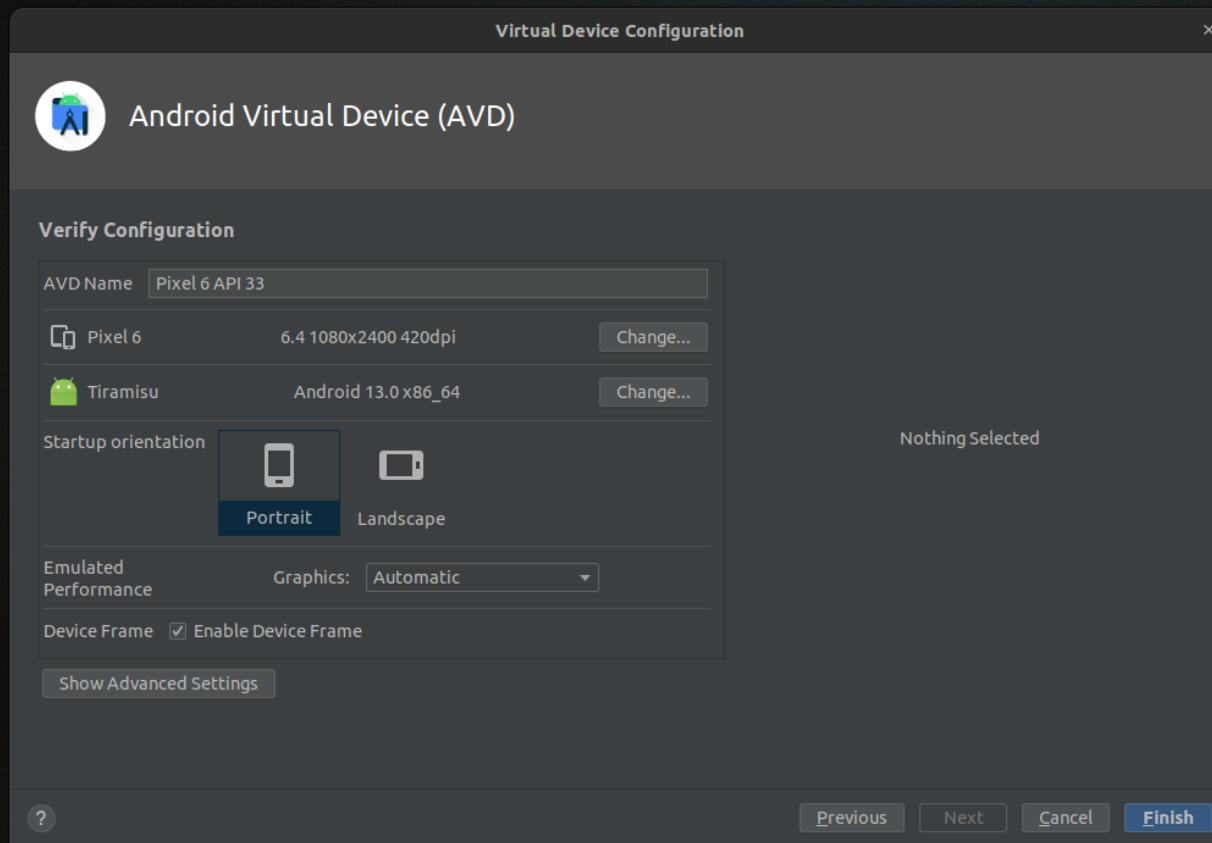
# EMULADOR

- Baixando uma imagem



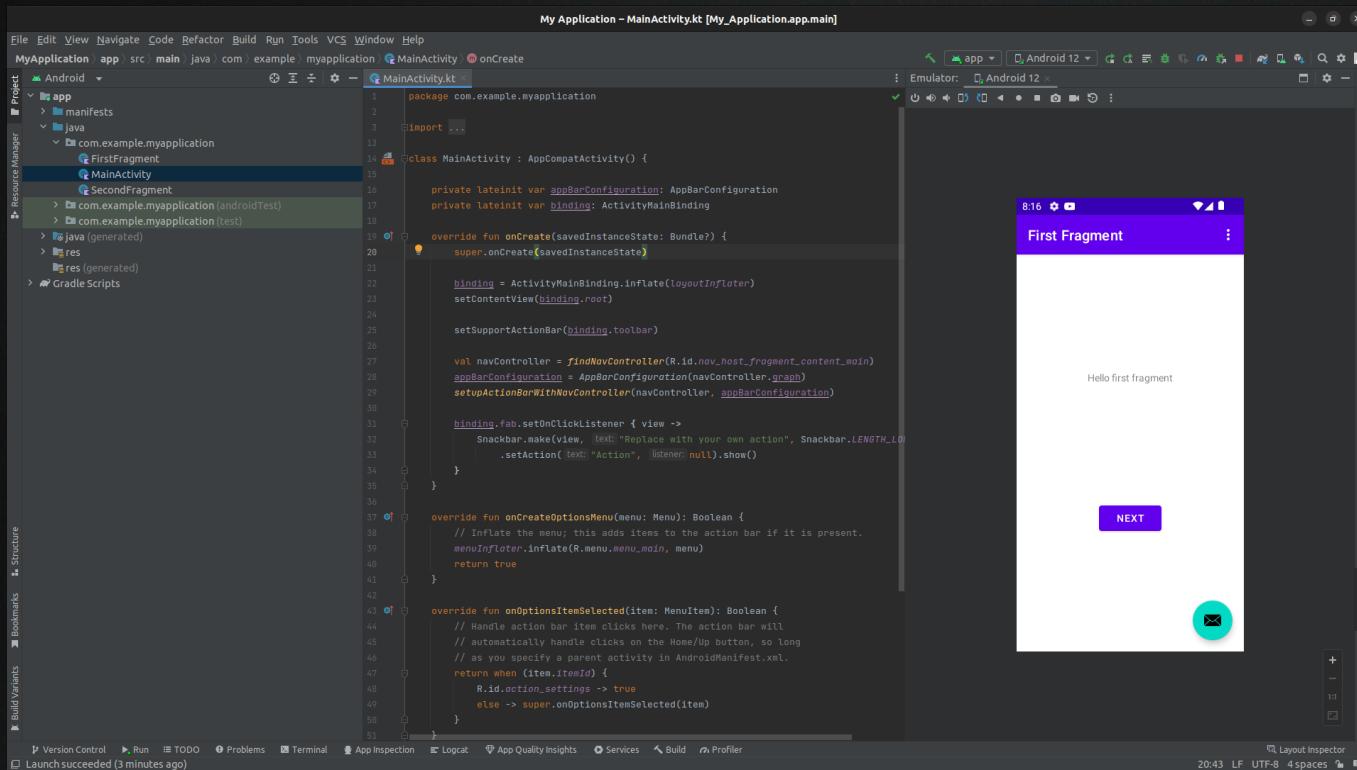
# EMULADOR

- Revisão das configurações do dispositivo



# RODANDO O PROJETO

- Uma vez que o emulador está criado, abra o projeto, vá na menu "Run" e selecione a opção "Run app". Ao final de tudo, ele aparecerá do lado direto



Dúvidas?

# Tuíte

- By Steve Jobs

"Se você não é apaixonado pelo que faz, deveria tentar fazer outra coisa."