

A03 Android Studio

CSI401 – Programação para Dispositivos Móveis

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• Android Studio

https://developer.android.com/studio/index.html

• Pré-requisito: JDK

(http://www.oracle.com/technetwork/java/javase/downloa ds/jdk8-downloads-2133151.html)







200	Android Studio Setup	_ 🗆 🗙				
2	Choose Components Choose which features of Android Studio you want to install.					
Check the components you install. Click Next to continu	u want to install and uncheck the comp ue.	oonents you don't want to				
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Target Android De	vices		
Select the form factors your app w	ill run on		
Different platforms may require separate SDKs			
Phone and Table	t		
Minimum SDK	API 15: Android 4.0.3 (IceCreamSandwich)		
	Lower API levels target more devices, but have fewer features available.		-
	By targeting API 15 and later, your app will run on approximately 97,4% of the devices that are active on the Google Play Store.		
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4.2	Jelly Bean	17	98,1%
4.3	Jelly Bean	18	95,9%
4.4	KitKat	19	95,3%
5.0	Lollipop	21	85,0%
5.1	Lollipop	22	80,2%
6.0	Marshmallow	23	62,6%
7.0	Nougat	24	37,1%
7.1		25	14,2%
B.0	Oreo	26	6,0%
8.1	Oreo	27	1,1%

Ice Cream Sandwich

Contacts Provider

Social APIs User profile Invite intent Large photos

Calendar Provider

Calendar APIs Event intents

Voicemail Provider

Add voicemails to the device

Multimedia

Media effects for images and videos Remote control client Improved media player

Camera

Face detection Focus and metering areas Continuous auto focus Camera broadcast intents

Connectivity

Android Beam for NDEF push with NFC Wi-Fi P2P connections Bluetooth health profile Network usage and controls

Accessibility

Explore-by-touch mode Accessibility for views Accessibility services Improved text-to-speech engine support

User Interface

Spell checker services Improved action bar Grid layout Texture view Switch widget Improved popup menus System themes Controls for system UI visibility Hover event support Hardware acceleration for all windows

Enterprise

VPN services Device policies Certificate management

Device Sensors

Improved sensors Temperature sensor Humidity sensor



Create New Project

Installing Requested Components

SDK Path: C:\Users\George\AppData\Local\Android\Sdk straintLayout 1.0.2 (revision: 1) " complete. straintLayout 1.0.2 (revision: 1)" finished. traintLayout for Android 1.0.2 (revision: 1)". google.com/android/repository/com.android.support.constraint-constraint-layout-1.0.2.zip ut for Android 1.0.2 (revision: 1)" ready. traintLayout for Android 1.0.2 (revision: 1)" yout for Android 1.0.2 in C:\Users\George\AppData\Local\Android\Sdk\extras\m2repository\com\android\support\constraint\constraint-layout\1.0.2 ut for Android 1.0.2 (revision: 1)" complete. ut for Android 1.0.2 (revision: 1)" finished. \AppData\Local\Android\Sdk\add-ons\addon-google apis-google-24\package.xml \AppData\Local\Android\Sdk\build-tools\25.0.2\package.xml \AppData\Local\Android\Sdk\docs\package.xml \AppData\Local\Android\Sdk\emulator\package.xml \AppData\Local\Android\Sdk\extras\android\m2repository\package.xml \AppData\Local\Android\Sdk\extras\google\m2repository\package.xml \AppData\Local\Android\Sdk\extras\intel\Hardware Accelerated Execution Manager\package.xml \AppData\Local\Android\Sdk\extras\m2repository\com\android\support\constraint\constraint-layout-solver\1.0.2\package.xml \AppData\Local\Android\Sdk\extras\m2repository\com\android\support\constraint\constraint-layout\1.0.2\package.xml \AppData\Local\Android\Sdk\patcher\v4\package.xml \AppData\Local\Android\Sdk\platform-tools\package.xml \AppData\Local\Android\Sdk\platforms\android-25\package.xml \AppData\Local\Android\Sdk\sources\android-25\package.xml \AppData\Local\Android\Sdk\system-images\android-25\google apis\x86\package.xml

Done

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Previous

Next

Cancel



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		Lawout Name	Generate Layout File	
		Layout Name:	Backwards Compatibility (AppCompat)	
Em	pty Activity			
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				Previous Next Cancel <u>Finish</u>



 Leva algum tempo na primeira execução pois o Android Studio faz o download do Gradle (e não te avisa!)





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Captures

样 2: Favorites

🌸 Build Variants

Android Model

Gradle



🕏 HelloWorld - [C:\George\Professor\Disciplinas\2017-1\CSI489ComputacaoMovel\Codigos\A01\HelloWorld] - [app] - ...\app\src\main\java\br\ufop\george\helloworld\MainActivity.java ... – 🖻 🗾 🗾

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•	Select Deployment Target	×
No USB devices or running emulators	detected	Troubleshoot
Connected Devices		
<none></none>		
Create New Virtual Device		
Use same selection for future laund	hes	OK Cancel



Virtual Device Configuration



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Choose a device definition

	Q.				
Category	Name 🔻	Size	Resolution	Density	
τv	Pixel XL	5,5"	1440x2560	560dpi	
Wear	Pixel	5,0"	1080x1920	xxhdpi	1080px Size: large
Phone	Nexus S	4,0"	480x800	hdpi	Ratio: long Density: 420dp
Tablet	Nexus One	3,7"	480x800	hdpi	
	Nexus 6P	5,7"	1440x2560	560dpi	5.2" 1920px
	Nexus 6	5,96"	1440x2560	560dpi	
	Nexus 5X	5,2"	1080x1920	420dpi	
	Nexus 5	4,95"	1080x1920	xxhdpi	
	Nexus 4	4,7"	768x1280	xhdpi	
	Galaxy Nexus	4,65"	720x1280	xhdpi	
New Hardware P	rofile Import Hardwa	re Profiles		\$	Clo

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<u>Cancel</u>



<u>@</u>		Virtual Device Configuration			
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AVD Name Nexus 5X API 2	5				
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@	Select Deployment Target	×
No USB devices or running emulators	detected	Troubleshoot
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<u>Create New Virtual Device</u>		
☑ Use same selection for future laund	hes	OK Cancel



- Aqui está o seu novo smartphone com seu app
- Agora começa sua jornada como desenvolvedor Android!



HelloWorld



Projeto A03 HelloWorld.rar



Atalhos importantes



- Ctrl + Espaço Auto completar
- Ctrl + B Ir para a definição
- Shift + F6 Renomear
- Ctrl + / Comentar / descomentar
- Ctrl + Alt + L Reformatar código
- Shift + F10 Executar
- Ctrl + Shift + S Configurações da IDE
- Alt + Insert Geração automática de const. e getters/setters

Usar dispositivo como emulador



- Ativar opções de desenvolvedor no dispositivo
 - Liberar configurações de desenvolvedor: Configurações -> Sobre o telefone -> tocar sete vezes sobre o número da versão



• Menu: Configurações -> Programador será liberado

Usar dispositivo como emulador



- Instalar driver USB para ADB (Android Debug Bridge)
 - <u>https://developer.android.com/studio/run/oem-usb.html?hl=pt-</u> <u>br#Drivers</u>
- Conectar o dispositivo à USB
- Ativar Depuração USB
 - Configurações -> Programador -> Deputação USB
 - Marcar a caixinha "Permitir depuração USB"
 - Executar aplicação

2	Select Deployment Target	
Connected Devices —		
Motorola XT1563	Android 6.0.1, API 23)	
Available Virtual Devic	s	
Nexus 5X API 25		

Importando projetos



HelloWorld - [C:\Users\George\HelloWorld] - [app] - ...\app\src\main\res\layout\activity_main.xml - Android Studio 2.3 Edit View Navigate Code Analyze File Refactor Build Run Tools VCS Window Help New Project... Q ik 🔒 📕 🖳 🧕 G 💺 ? 4 👗 D Open... ain.xml Project from Version Control 🕨 Open Recent C MainActivity.java × 🔯 strings.xml × .xml × Gradle Close Project New Module... id.support.constraint.ConstraintLayout TextView Import Module... Link C++ Project with Gradle × version="1.0" encoding="utf-8" ?> Import Sample... Ctrl+Alt+S 🐓 Settings... oid.support.constraint.ConstraintLayout 10 Preview 📄 File Project Structure... Ctrl+Alt+Shift+S mlns:android="http://schemas.android.com/apk/res/android" Other Settings Directory mlns:tools="http://schemas.android.com/tools" mlns:app="http://schemas.android.com/apk/res-auto" S C++ Class Import Settings... ndroid:layout width="match parent" 📴 C/C++ Source File Export Settings... ndroid:layout height="match parent" C/C++ Header File Settings Repository... ools:context="br.ufop.george.helloworld.MainActivity"> Ctrl+S 👘 Image Asset Save All TextView Ctrl+Alt+Y Vector Asset 5 Synchronize android:layout width="wrap content" Invalidate Caches / Restart... Singleton android:layout height="wrap content" android:text="Hello World!" Export to HTML ... Edit File Templates... app:layout constraintBottom toBottomOf="parent" Print... 🗯 AIDL app:layout constraintLeft toLeftOf="parent" Add to Favorites 🚔 Activity app:layout constraintRight toRightOf="parent" app:layout constraintTop toTopOf="parent" /> 🛑 Android Auto Line Separators Folder roid.support.constraint.ConstraintLayout> Make File Read-only 🖷 Fragment Power Save Mode 🖗 Google 🖗 Other Exit Service * 🏺 Ul Component Wear 🌻 Android Model k Build Variants Widget 🏺 XML 🔒 Resource Bundle Design Text STODO S 3 Event Log Gradle Console 0: Messages Terminal 🟺 6: Android Monitor 📐 <u>4</u>: Run

Gradle build finished in 9s 153ms (13 minutes ago)

10:14 CRLF: UTF-8 Context: < no context> 🛛 🚡 😸

Importando projetos

Select Eclipse or Gradle Project to Import ×
Select your Eclipse project folder, build.gradle or settings.gradle
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HelloAnybody
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A02
Drag and drop a file into the space above to quickly locate it in the tree
OK Cancel Help

 Eventuais problemas de compatibilidade são resolvidos automaticamente (Android Studio irá solicitar a atualização dos componentes necessários)



Importando projetos

- É possível importar projetos legados (não aparecerão com o ícone do Android Studio)!
- Basta selecionar a pasta do projeto e clicar OK:

Select Eclipse or Gradle Project to Import
Select your Eclipse project folder, build.gradle or settings.gradle
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► E Server
Drag and drop a file into the space above to quickly locate it in the tree
OK Cancel Help

.....



Renomear projeto



- Infelizmente não é trivial renomear um projeto pela IDE..
- Alternativa:
 - Fechar Android Studio
 - Renomer a pasta do projeto para o nome desejado
 - Abrir Android Studio
 - Abrir o projeto (somente pelo Open...)
 - Limpar o projeto (Build -> Clean Project)
- Importante para copiar projetos e reaproveitar código! 34

Importante!



- Se você não conseguiu executar o exemplo "HelloWorld" no emulador e no dispositivo favor procurar me procurar solucionarmos o(s) problema(s)!
- Precisaremos disso funcionando para as próximas aulas/trabalhos!



Bibliografia



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- Lecheta, R. R. Google Android: Aprenda a criar aplicações para dispositivos móveis com o Android SDK. 3ª edição. São Paulo: Novatec Editora, 2013.

