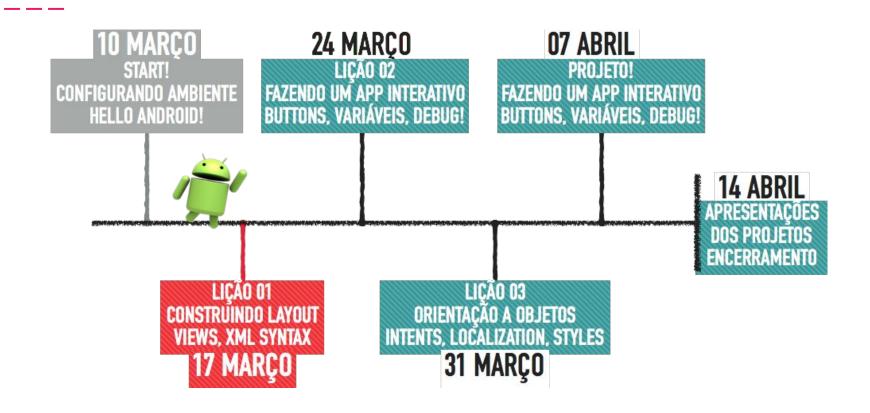


### **AGENDA**



# BUILDING LAYOUTS

LESSON 1A

#### Lesson 1A Views

Introduz o conceito de views e sua utilização.

#### Vocabulário

TextView ImageView Button CamelCase



#### VIEWS

Identify the type of View

- o Text View o Image View o Button
- B o Text View o Image View o Button
- o Text View o Image View o Button
- o Text View o Image View o Button
- o Text View o Image View o Button

#### Lesson 1A Views

Introduz o conceito de views e sua utilização.

#### Vocabulário

TextView ImageView Button CamelCase



#### VIEWS

Identify the type of View

A o Text View o Image View o Button

3 o Text View o Image View o Button

o Text View o Image View o Button

D o Text View o Image View o Button

o Text View o Image View o Button

# Lesson 1A Using TextView

Introduz o conceito de views e sua utilização.

#### Vocabulário

TextView
ImageView
Button
CamelCase

### TEXTVIEW

```
TextView
android:text="Happy Birthday!"
android:background="@android:color/darker_gray"
android:layout_width="150dp"
android:layout_height="75dp" />
Write your observations here:
```



# Lesson 1A XML Syntax

Explica os componentes e regras usadas ao escrever XML.

#### Vocabulário

XML Element
Tags & Self-closing Tags
Attributes
Syntax
Parent/Child Elements
Density Independent Pixels (dp)

```
XML SYNTAX
    Line
   numbers v
              <TextView
                  android:text="Happy Birthday!"
android:textColor="@android:color/white"
                  android:background="@android:color/black"
                  android:layout width="200dp"
                  android:layout height="300dp" />
I what's the name of the XML element?
2. List all attribute names (not attribute values) separated by commas
3. On what line number is the tag closed?
```

# Lesson 1A Change The

**Text View** Explica os componentes e regras usadas ao escrever XML.

#### Vocabulário

XML Element
Tags & Self-closing Tags
Attributes
Syntax
Parent/Child Elements
Density Independent Pixels (dp)

CHANGE THE TEXT VIEW Change the text in the TextView □ Try changing the Size of the Text View. ☐ Try to create an error. Then undo it.

# Lesson 1A **Getting Past Errors**

Aborda erros e oferece sugestões para debugar.

### GETTING PAST ERRORS

# Lesson 1A Wrap Content

Como wrap\_content pode ser utilizado para definir a altura e a largura automaticamente.

#### Vocabulário

Hard coding wrap\_content

### WRAP\_CONTENT

- of the Text View to wrap\_content
- Change the text to be more than 1 line of text on the device

### Lesson 1A TextView Text Size

Como alterar o tamanho e a cor dos TextViews.

#### Vocabulário

Scale Independent Pixels (sp) textSize textColor Material Design Spec Hexadecimal Color

### TEXT SIZE

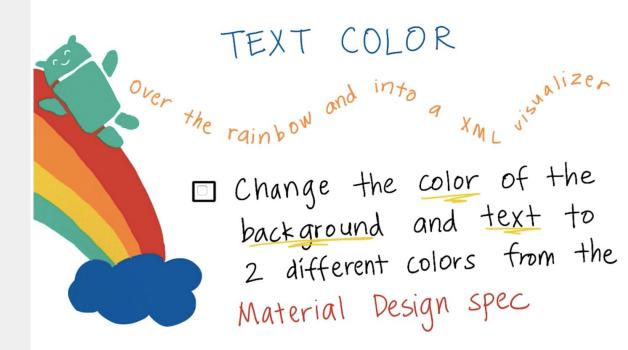
- Change the TextView font size using sizes from Material Design spec
- Try learning about text appearance from 9+ # Android Dev # Protip

### Lesson 1A TextView Text Color

Como alterar o tamanho e a cor dos TextViews.

#### Vocabulário

Scale Independent Pixels (sp) textSize textColor Material Design Spec Hexadecimal Color



# BUILDING LAYOUTS

LESSON 1B

# Lesson 1B ViewGroups

Introduz o conceito de ViewGroups e sua utilização.

#### Vocabulário

ViewGroups

**Root View** 

Parent

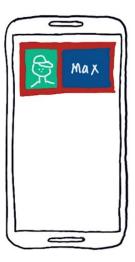
Child

Sibling

### VIEW GROUPS







# Lesson 1B Types of ViewGroups

Introduz o conceito de ViewGroups e sua utilização.

#### Vocabulário

LinearLayout RelativeLayout

### VIEW GROUPS

```
<LinearLayout
    android:orientation="vertical"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content">

    <TextView
        android:text="Guest List"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content" />

    <TextView
        android:text="Kunal"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_height="wrap_content" />

</LinearLayout>
```



# Lesson 1B Types of ViewGroups

Introduz o conceito de ViewGroups e sua utilização.

#### Vocabulário

LinearLayout RelativeLayout

### RELATIVELAYOUT

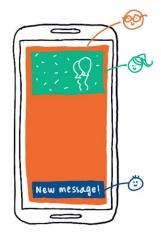
Relative to parent



Relative Layout







# LINEAR LAYOUT Vertical column



laura

LinearLayout



TextView





# Lesson 1B LinearLayout

Introduz o conceito de ViewGroups e a utilização do LinearLayout.

#### Vocabulário

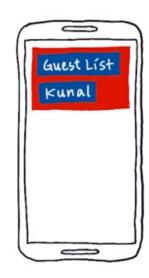
Orientation
vertical
horizontal

### LINEAR LAYOUT

- Add more TextViews to the parent Linear Layout View Group
- Change the Linear Layout orientation attribute

Vertical or Horizontal





# Lesson 1B Width and Height

Descreve os atributos de altura e largura e a atribuição de valores para eles.

#### Vocabulário

match\_parent
ViewGroup layout parameter

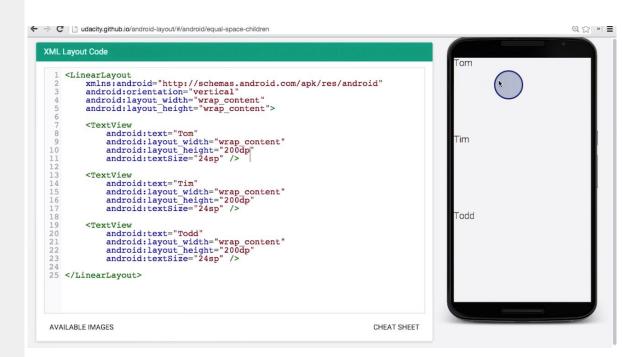
### DIFFERENT HEIGHTS ON CHILD VIEWS wrap-content match-parent 200 dp Today is Today is Today is my birthday! my birthday!

### Lesson 1B Weight

Como distribuir as views igualmente em um LinearLayout.

#### Vocabulário

layout\_weight



### Lesson 1B Weight

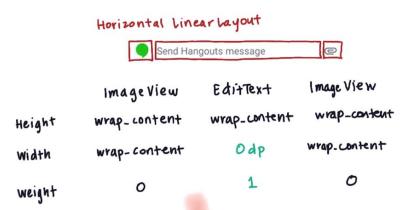
Como distribuir as views igualmente em um LinearLayout.

#### Vocabulário

layout\_weight

#### HANGOUTS APP





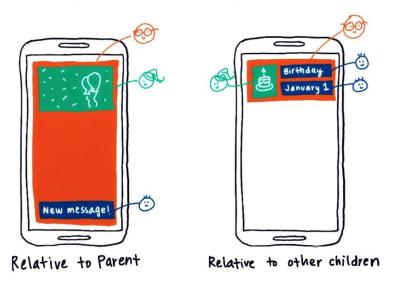
# Lesson 1B RelativeLayout

Introduz o conceito de ViewGroups e a utilização do RelativeLayout.

#### Vocabulário

RelativeLayout

#### RELATIVE LAYOUT



#### Lesson 1B **Align to Parent**

Introduz o conceito de ViewGroups e a utilização do RelativeLayout.

#### Vocabulário

layout\_alignParent layout\_centerVertical

### RELATIVE LAYOUT

Relative to Parent



android: layout\_align Parent Top = "true"

android: layout\_align Parent Bottom = "false"

android: layout\_align Parent Left = "true"

android: layout\_align Parent Right = "true"



New messagel

Bottom Edge

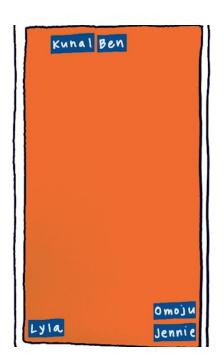
Top Edge

# Lesson 1B Align to other Views

Introduz o conceito de ViewGroups e a utilização do RelativeLayout.

#### Vocabulário

id
layout\_toRightOf
layout\_toLeftOf
layout\_above
layout\_below
RelativeLayoutParams



```
Assigning view ID names

On Jennie Textview:
android:id="@+id/jennie-text_view"

Positioning children relative
to other views

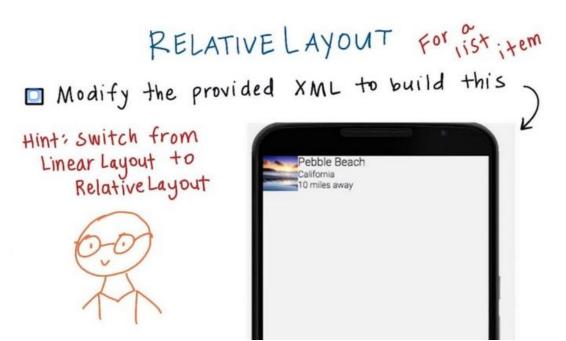
On Omojy Textview:
android:layout_above=
"@id/jennie-text_view"
```

# Lesson 1B RelativeLayout Item

Descreve a criação de um Item com RelativeLayout.

#### Vocabulário

id layout\_toRightOf layout\_toLeftOf layout\_above layout\_below

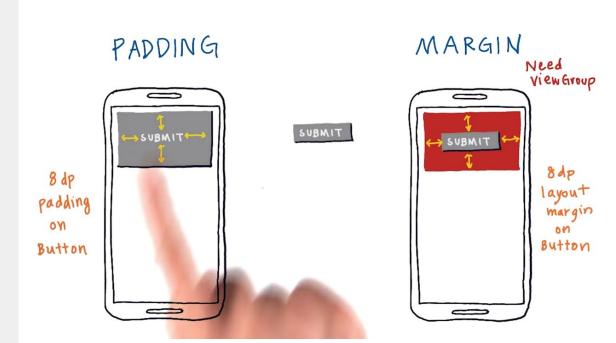


### Lesson 1B Padding vs Margin

A diferença do padding e margin para o espaçamento das Views.

#### Vocabulário

Padding
android:padding
Margin
android:layout\_margin



# Lesson 1B Padding vs Margin

A diferença do padding e margin para o espaçamento das Views.

#### Vocabulário

Padding
android:padding
Margin
android:layout\_margin

### & MARGIN PADDING Modify the provided XML to build this desired layout You're invited

# PRACTICE SET 1

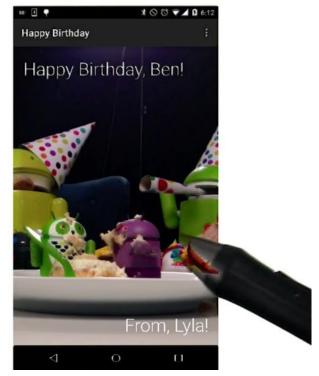
LESSON 1A e 1B

# Prawing to Code sters!

Step 1: Select the Views

Step 2: Position the Views

Step 3: Style the Views



### Practice Set 1 Select the Views

Identificando as views antes de começar.

#### Resposta

2 TextViews ImageView

### Step 1: Select the Views

What Views are included in this layout?





### Practice Set 1 Position the Views

Definindo o posicionamento das Views no Layout.

#### Resposta

Sobreposição de views Atributos de posicionamento

### Step 2: Position the Views

What View Group should you use? · Relative Layout Why?



# Practice Set 1 Style the Views

Ajustando posicionamento, dimensões e cores das Views.

#### Resposta

O texto é maior

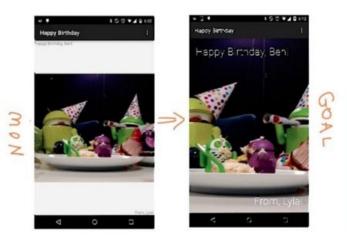
O texto é branco

A fonte do texto é diferente

A imagem ocupa toda a tela

O texto possui um espaçamento

### Step 3: Style the Views







**Practice Set 1- Birthday Card!** 

# PRACTICE

LESSON 1A e 1B

## Practice Building new Layout

Vamos construir esse novo layout, o que precisaremos?





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# Practice Building new Layout

Vamos construir esse novo layout, o que precisaremos?

#### Resposta

**ImageViews** 

LinearLayout

**TextViews** 

RelativeLayout

View (height: 1px)



### Referências

- \_\_\_
- https://goo.gl/eDJVIY ← essa apresentação
- http://www.gdgbh.org
- gdgbh.slack.com (Private Channel: #android-study-jam)
- <a href="https://goo.gl/dhwwY5">https://goo.gl/dhwwY5</a> (Android Development for Beginners)
- https://developers.google.com
- http://www.google.com/design/spec/style/typography.html#typography-styles
- http://www.google.com/design/spec/style/color.html#color-color-palette
- http://goo.gl/fWwL27 (Nearby Places com: Google Maps + Google Places API)

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