



LinearLayout



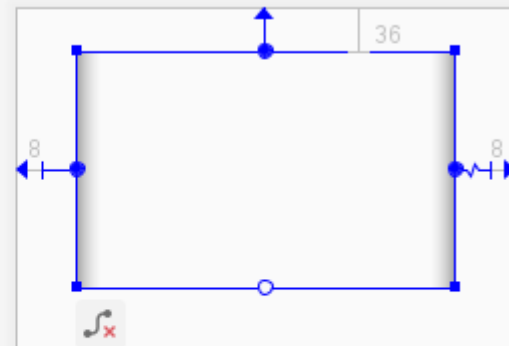
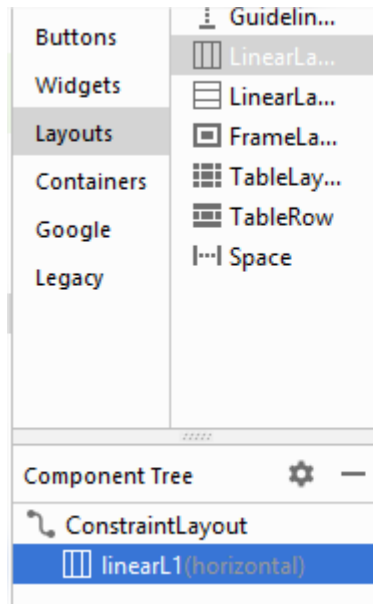
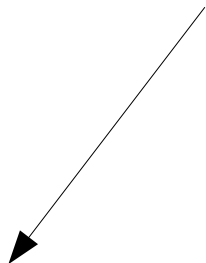
LinearLayout

Vous avez pu constater qu'aligner des objets Xml n'est pas une chose des plus simple.

Le LinearLayout permet d'afficher les vues sur une ligne horizontale ou verticale.
La propriété android:orientation permet de définir le sens du layout (horizontal ou vertical).

```
<LinearLayout
```

```
    android:id="@+id/linearL1"
    android:layout_width="311dp"
    android:layout_height="194dp"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="36dp"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:orientation="horizontal"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">
```



```
<LinearLayout
```

```
    android:id="@+id/linearL1"
    android:layout_width="311dp"
    android:layout_height="194dp"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="36dp"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:orientation="horizontal"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">
```

```
<Button
```

```
    android:id="@+id/button"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_weight="1"
    android:text="Button" />
```

```
</LinearLayout>
```

Wrap_content "enveloppe le contenu", c'est à dire qu'il permet d'adapter le composant à ça propre taille. Le composant prend la taille de ce qu'il contient.

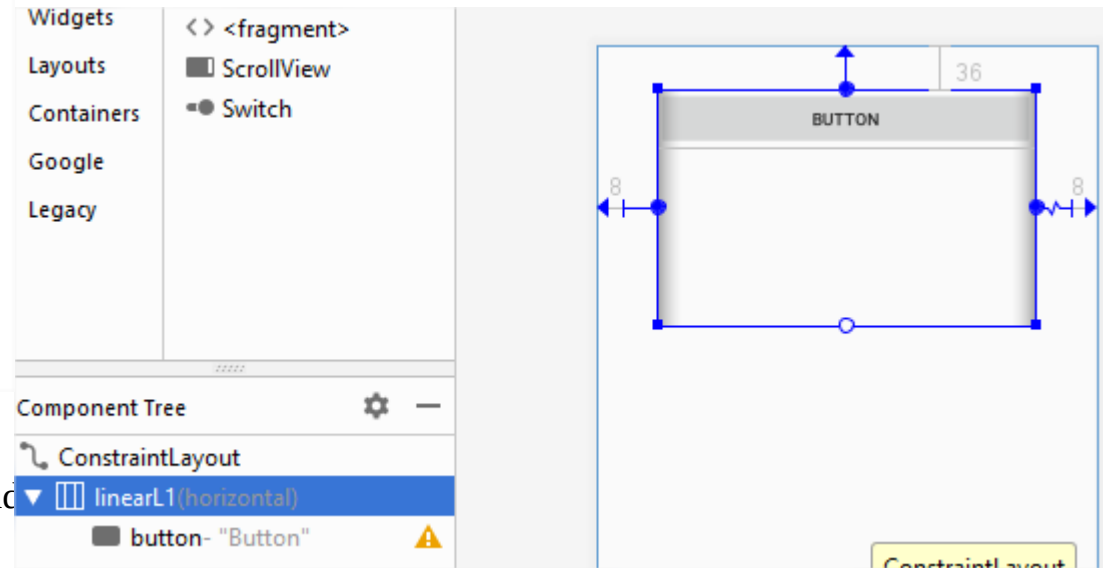
A l'inverse, match_parent lui regarde la taille du composant mère (parent) et prend la même taille. C'est à dire qu'un bouton dans un layout en match parent prendra toute la place dans le layout.

Pour synthétiser :

-un wrap_content : occupe la place MINIMALE

-un match_parent : occupe la place MAXIMALE

Android Studio



```
<Button
```

```
    android:id="@+id/button"
```

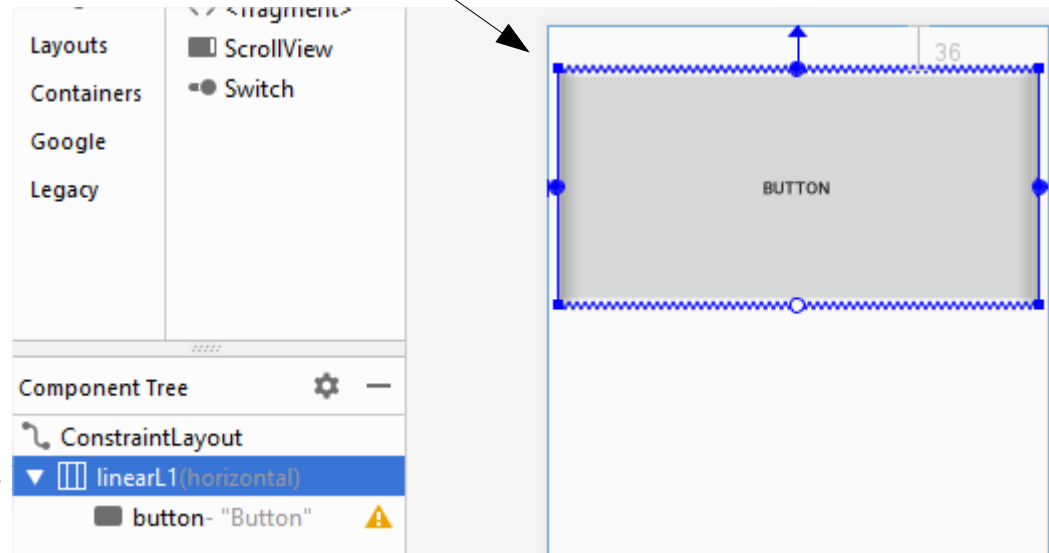
```
    android:layout_width="match_parent"
```

```
    android:layout_height="match_parent"
```

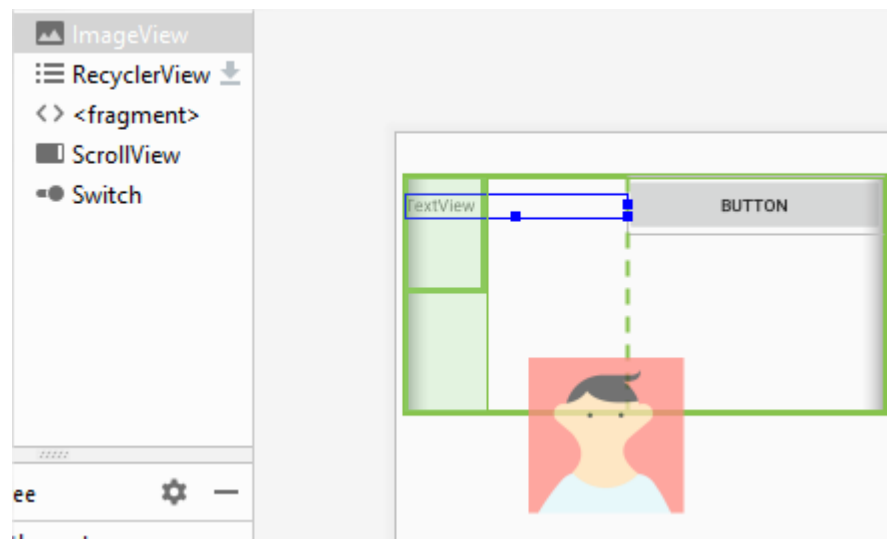
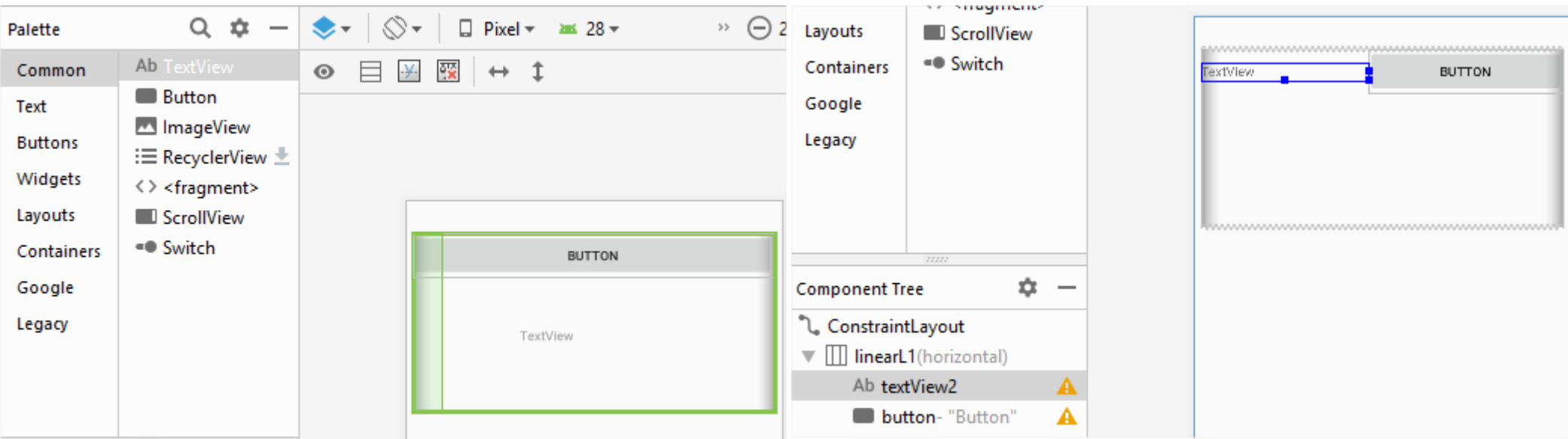
```
    android:layout_weight="1"
```

```
    android:text="Button" />
```

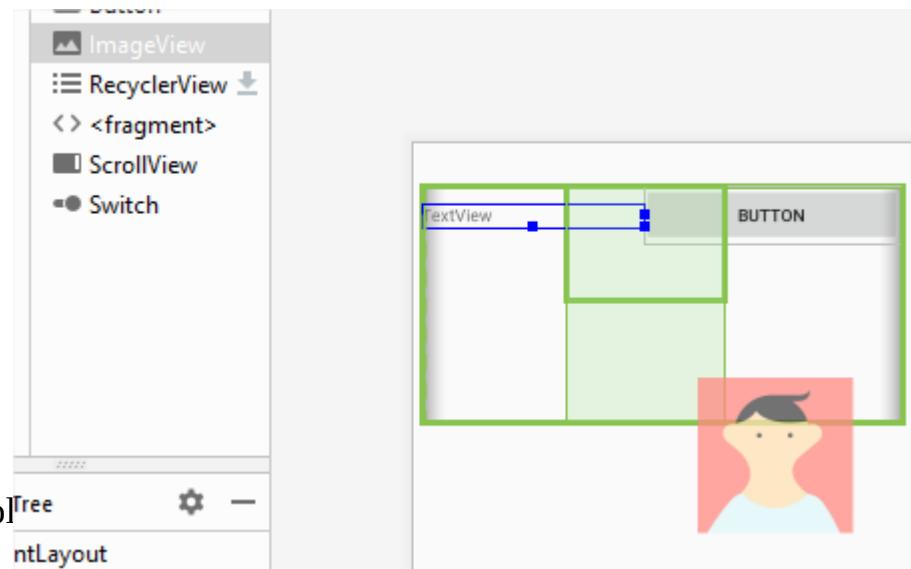
```
</LinearLayout>
```



Android Studio -



Studio - Nicol



```

<LinearLayout
    android:id="@+id/linearL1"
    android:layout_width="0dp"
    android:layout_height="194dp"
    android:layout_marginStart="8dp"
    android:layout_marginLeft="8dp"
    android:layout_marginTop="36dp"
    android:layout_marginEnd="8dp"
    android:layout_marginRight="8dp"
    android:orientation="horizontal"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

    <TextView
        android:id="@+id/textView2"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="TextView" />

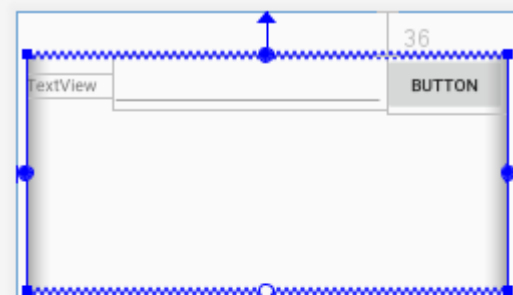
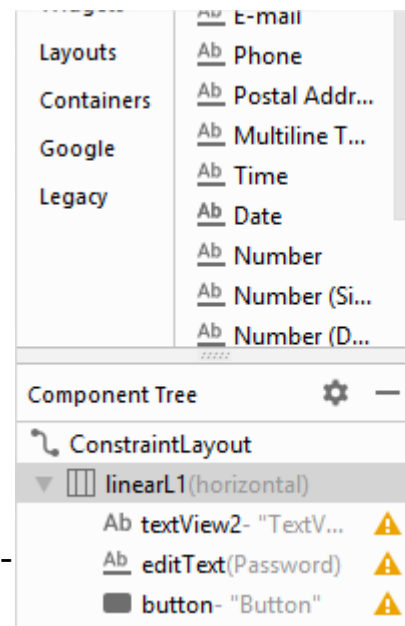
    <EditText
        android:id="@+id/editText"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:ems="10"
        android:inputType="textPassword" />

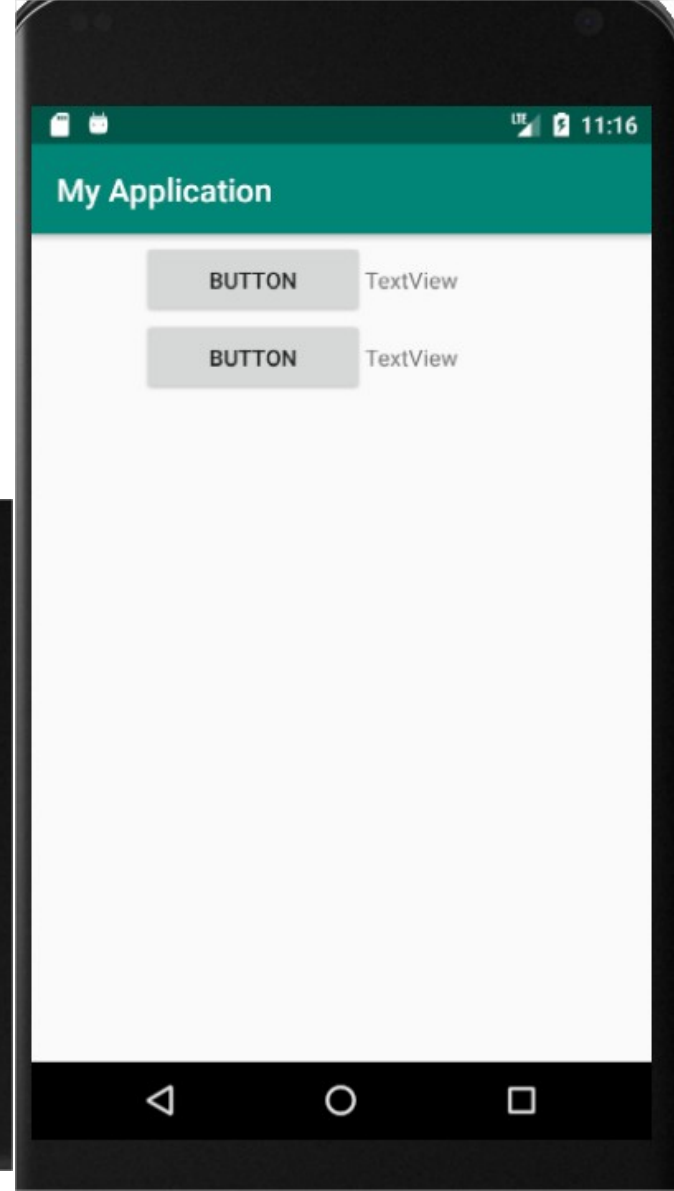
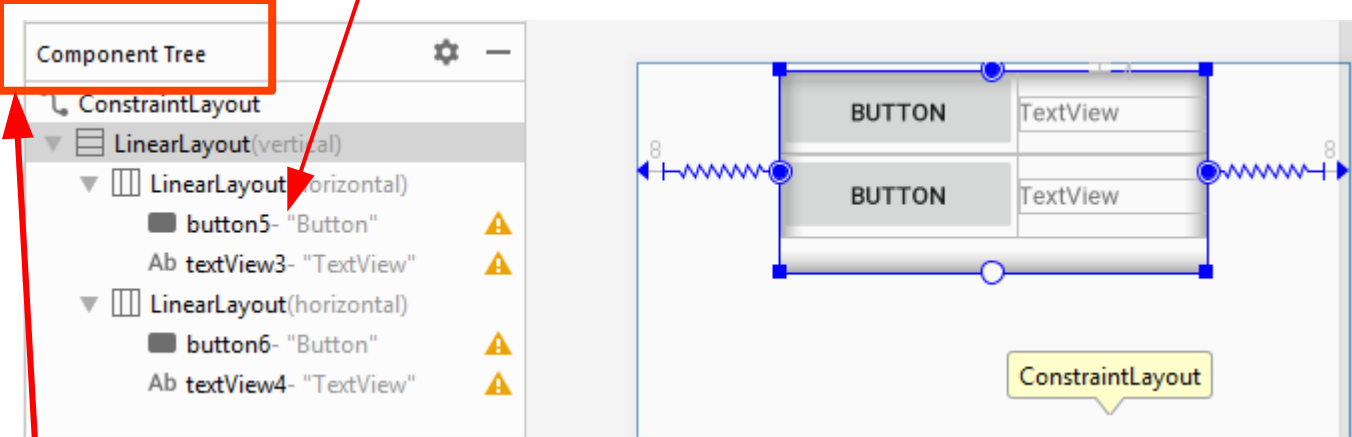
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_weight="1"
        android:text="Button" />

</LinearLayout>

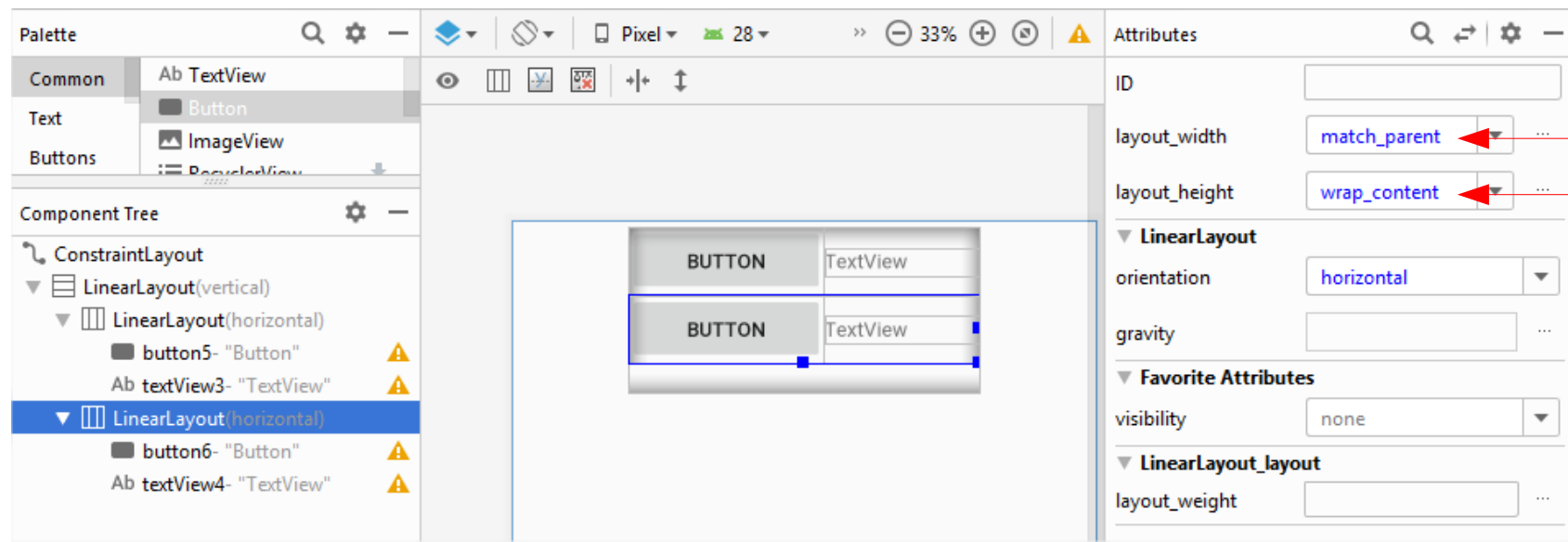
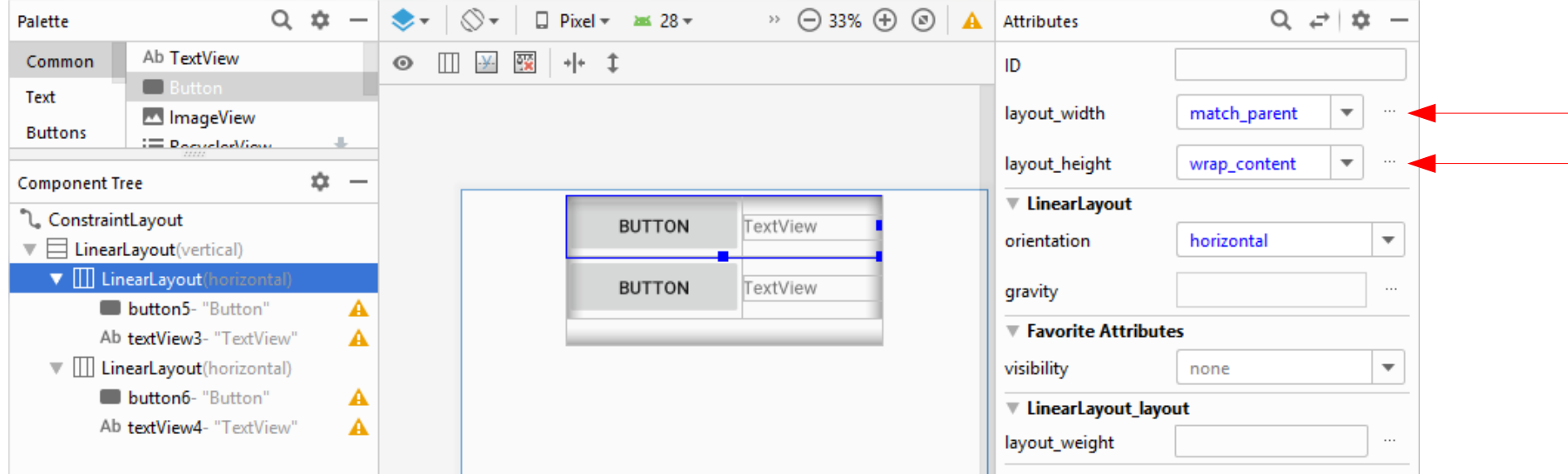
```

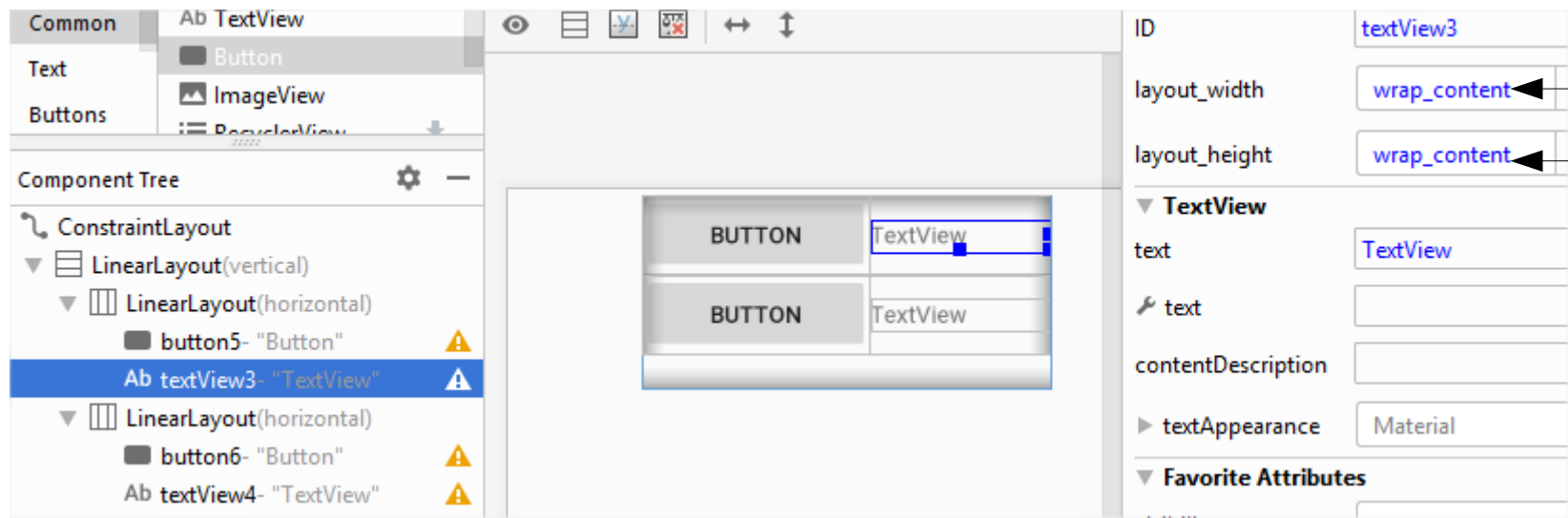
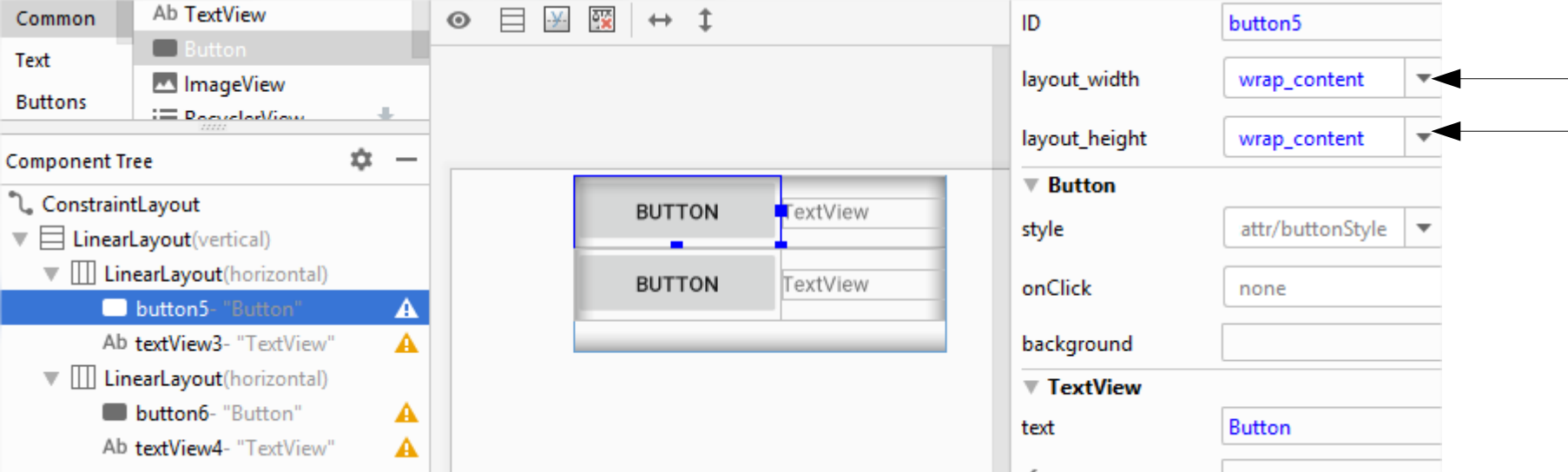
Android Studio -





Préférer un glisser/déposer dans l'arbre des composants.
Le positionnement de votre objet n'en sera que plus précis





Palette

Common

Text

Buttons

Widgets

Layouts

Containers

Google

Legacy

Ab TextView

Ab Plain Text

Ab Password

Ab Password (Numeri...

Ab E-mail

Ab Phone

Ab Postal Address

Ab Multiline Text

Ab Time

Ab Date

Ab Number

Ab Number (Signed)

Ab Number (Decimal)

Ab AutoCompleteTex...

MultiAutoComple...

CheckedTextView

Ab TextInputLayout

Component Tree

ConstraintLayout

LinearLayout(vertical)

Ab titre- "Exercices de multi..."

operation(horizontal)

Ab nbre1- "nbre1"

Ab multi- "X"

Ab nbre2- "nbre2"

resultat(horizontal)

Ab textView6- "Votre rés..."

Ab result- "Name"

btnValid- "Valider"

Exercices de multiplications

nbre1 X nbre2

Votre résultat:

Name

VALIDER

Small Screen

Nexus 5

Pixel 2

Pixel 3

Normal size range

Portrait

Landscape

En déplaçant ce symbole vous pouvez changer la taille de l'affichage en fonction des modèles Google.