Notification avec commandes

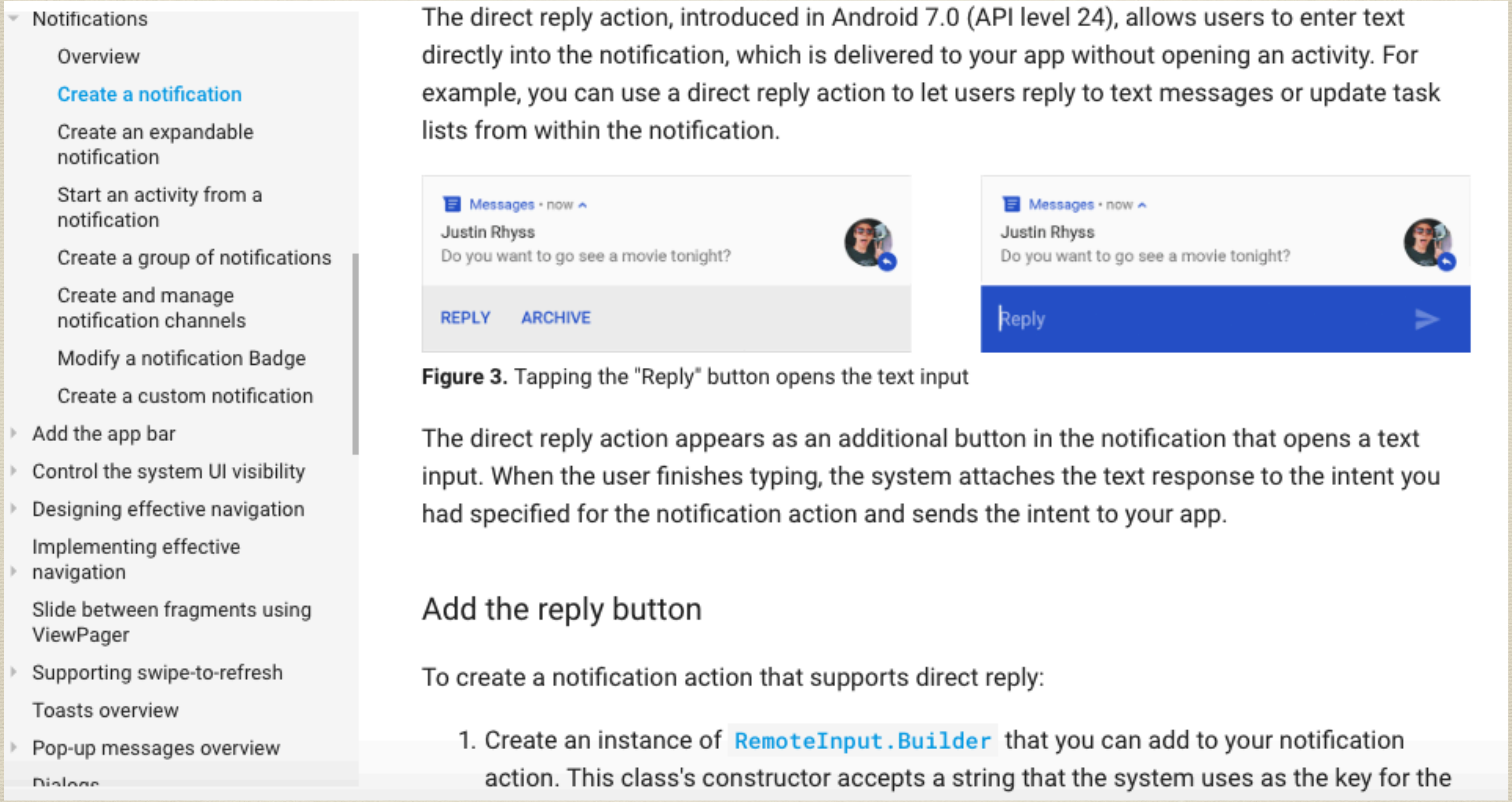
Par Souad BELLOUNI

Travail demandé

- Créer une notification actionnée par un bouton dans une application
- Quand on clique sur le bouton, la notification apparaît en haut de l’écran
- Ajouter un bouton à la notification
- Lorsqu’on active ce bouton, on peut envoyer un toast par exemple

SOLUTION PROPOSÉE

HTTPS://DEVELOPER.ANDROID.COM/TRAINING/NOTIFY-USER/BUILD-NOTIFICATION



- Notifications
  - Overview
  - Create a notification
  - Create an expandable notification
  - Start an activity from a notification
  - Create a group of notifications
  - Create and manage notification channels
  - Modify a notification Badge
  - Create a custom notification
- Add the app bar
- Control the system UI visibility
- Designing effective navigation
- Implementing effective navigation
- Slide between fragments using ViewPager
- Supporting swipe-to-refresh
- Toasts overview
- Pop-up messages overview
- Dialogs

The direct reply action, introduced in Android 7.0 (API level 24), allows users to enter text directly into the notification, which is delivered to your app without opening an activity. For example, you can use a direct reply action to let users reply to text messages or update task lists from within the notification.

Messages • now
Justin Rhyss
Do you want to go see a movie tonight?
REPLY
ARCHIVE
Messages • now
Justin Rhyss
Do you want to go see a movie tonight?
Reply

Figure 3. Tapping the "Reply" button opens the text input

The direct reply action appears as an additional button in the notification that opens a text input. When the user finishes typing, the system attaches the text response to the intent you had specified for the notification action and sends the intent to your app.

Add the reply button

To create a notification action that supports direct reply:

1. Create an instance of `RemoteInput.Builder` that you can add to your notification action. This class's constructor accepts a string that the system uses as the key for the

Notification

La Notification est le message qui apparaît sur l’écran de notre appareil mobile lorsque on n’utilise pas l’application.

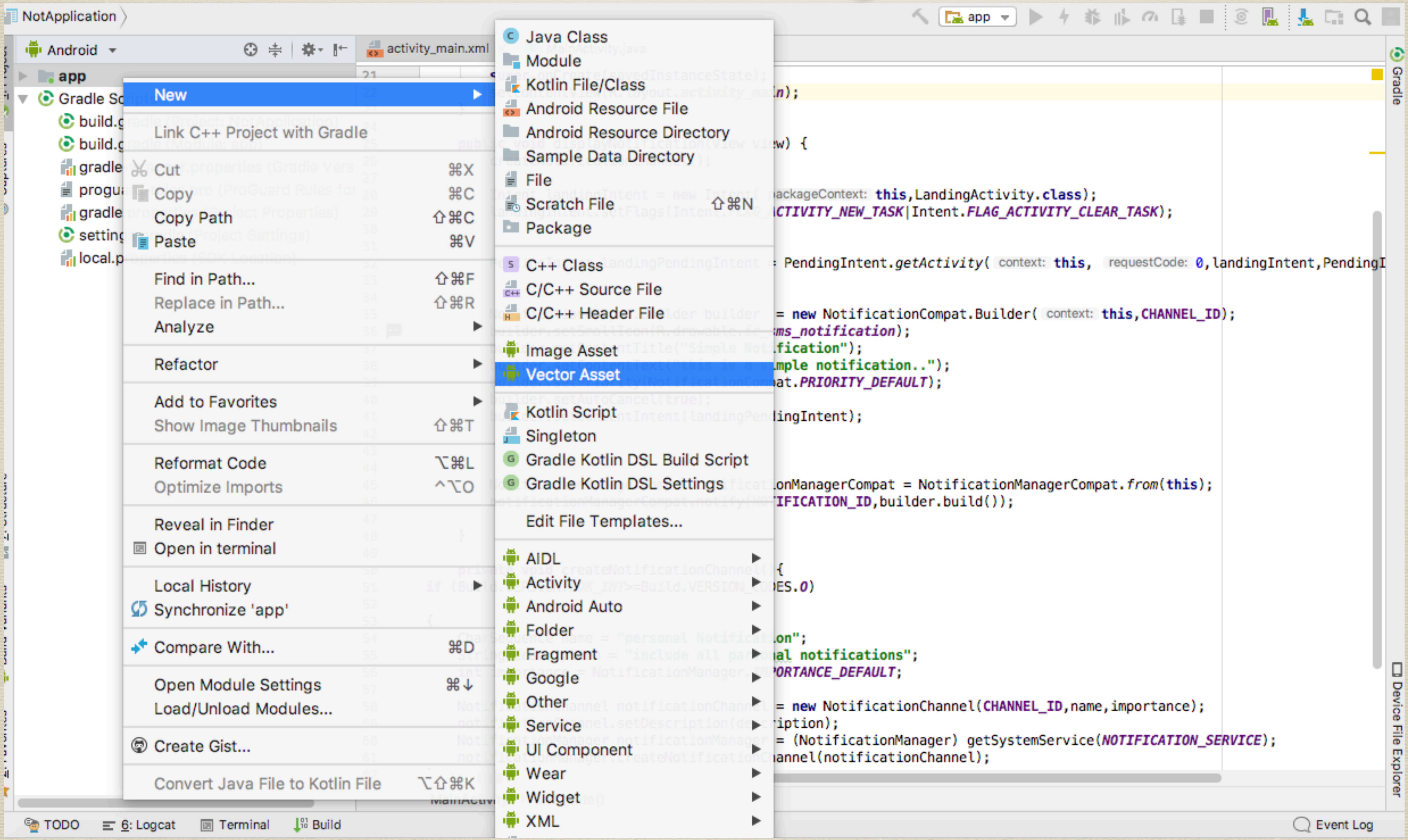
NotificationCompat

- API NotificationCompat de la bibliothèque de support Android.
- Ces API vous permettent d'ajouter des fonctionnalités disponibles uniquement sur les versions plus récentes d'Android tout en offrant une compatibilité avec Android 4.0 (API de niveau 14).

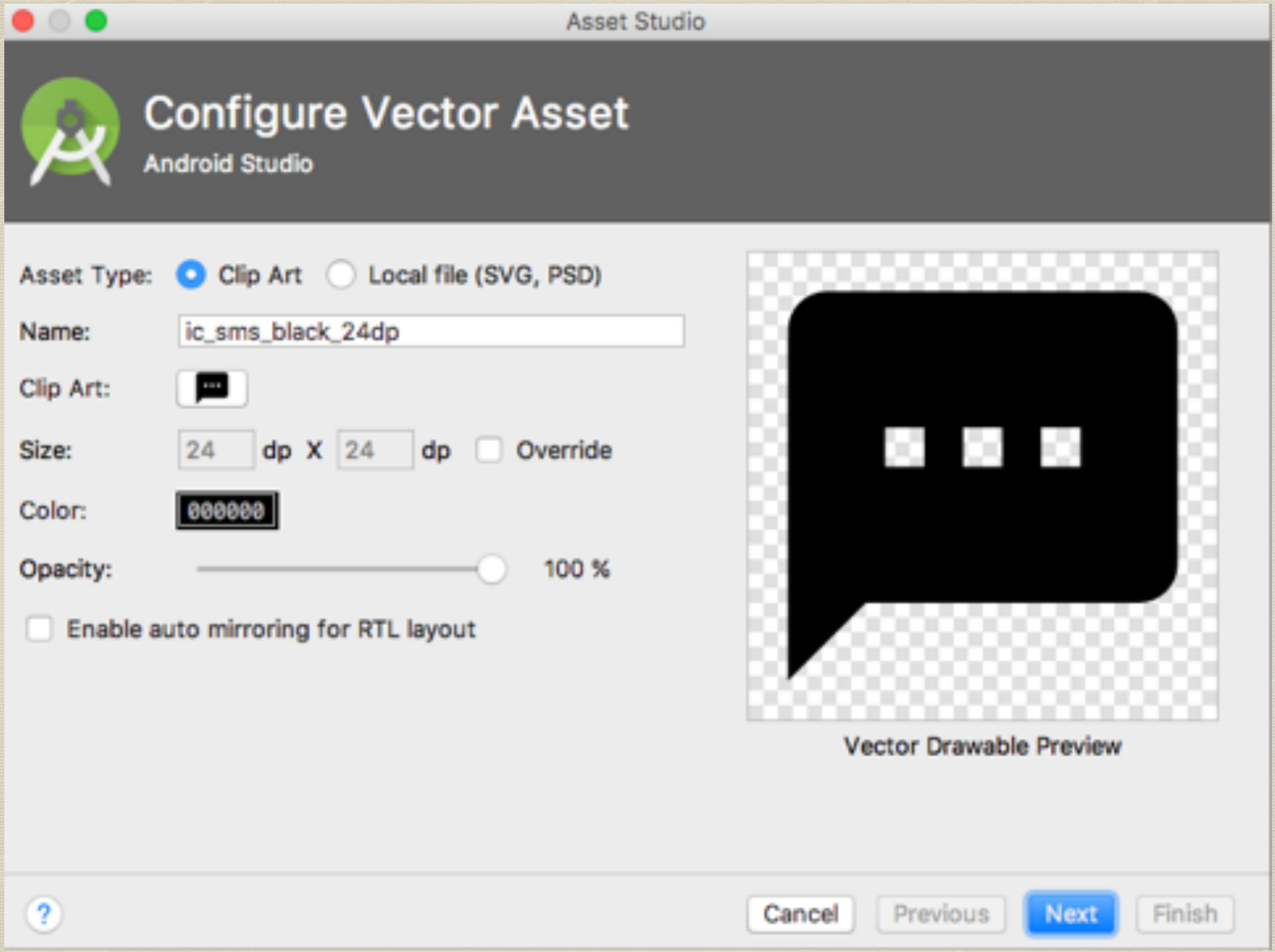
CHANNEL_ID

- Depuis Android 8.0 (API 26), il faut créer un canal de notification pour la création d'une notification
- Créez d'abord deux attributs :
- Un String CHANNEL_ID correspondant à l'identifiant du canal
- Un entier NOTIFICATION_ID correspondant à l'identifiant de la notification

Les étapes de la création d’une notification actionnée par un bouton



```
n);

w) {

ackageContext: this,LandingActivity.class);
CTIVITY_NEW_TASK|Intent.FLAG_ACTIVITY_CLEAR_TASK);

= PendingIntent.getActivity( context: this,  requestCode: 0,landingIntent,PendingI

= new NotificationCompat.Builder( context: this,CHANNEL_ID);
ms_notification);
fication");
mple notification..");
at.PRIORITY_DEFAULT);

ingIntent);

onManagerCompat = NotificationManagerCompat.from(this);
IFICATION_ID,builder.build());

{
ES.O)

on";
al notifications";
ORTANCE_DEFAULT;

= new NotificationChannel(CHANNEL_ID,name,importance);
iption);
= (NotificationManager) getSystemService(NOTIFICATION_SERVICE);
annel(notificationChannel);
```



Asset Studio

Configure Vector Asset

Android Studio

Asset Type: ● Clip Art ○ Local file (SVG, PSD)

Name: ic_sms_black_24dp

Clip Art:

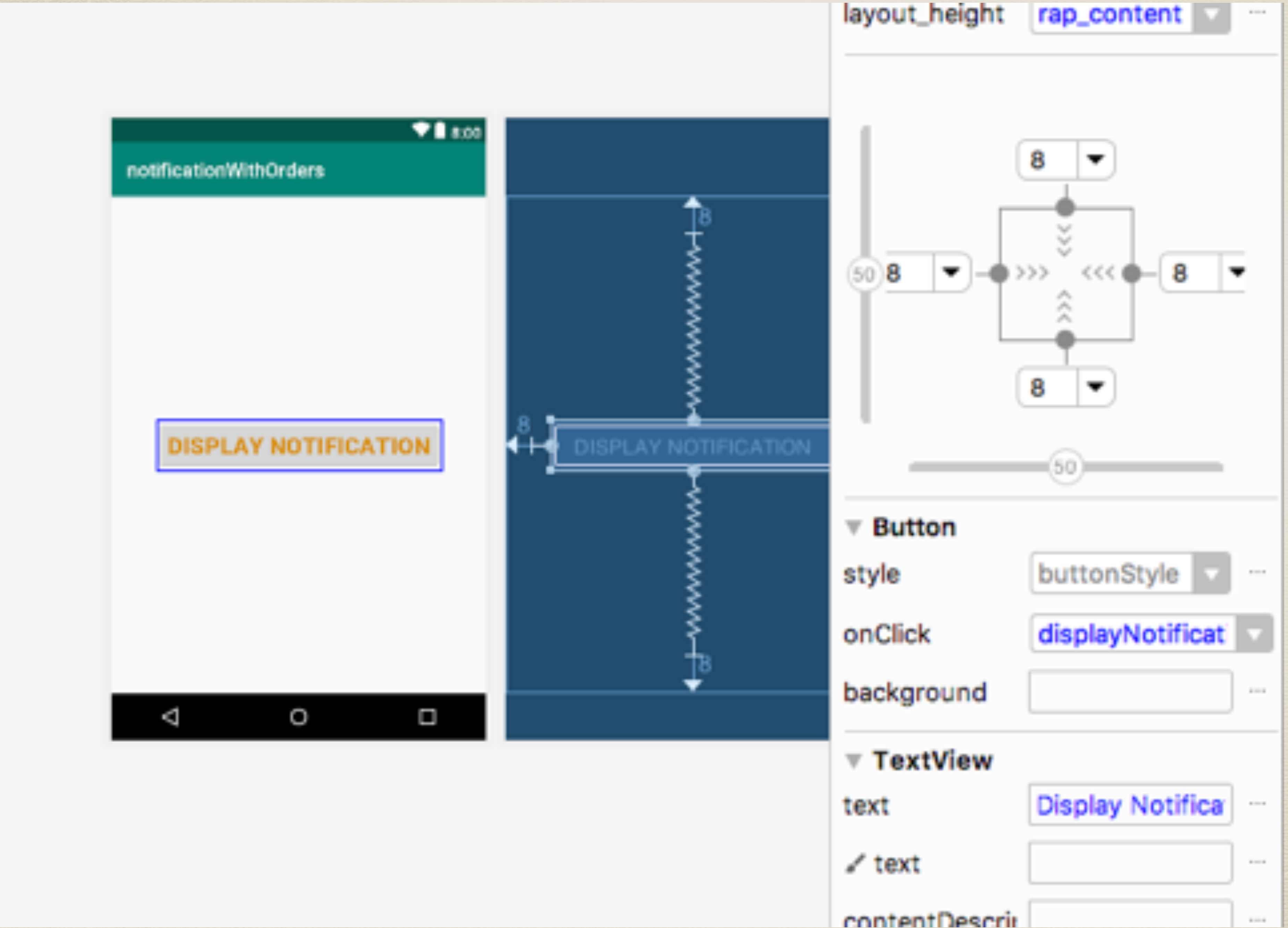
Size: 24 dp X 24 dp □ Override

Color: 000000

Opacity: 100 %

□ Enable auto mirroring for RTL layout

Le bouton



layout_height rap_content

Button

style buttonStyle

onClick displayNotificat

background

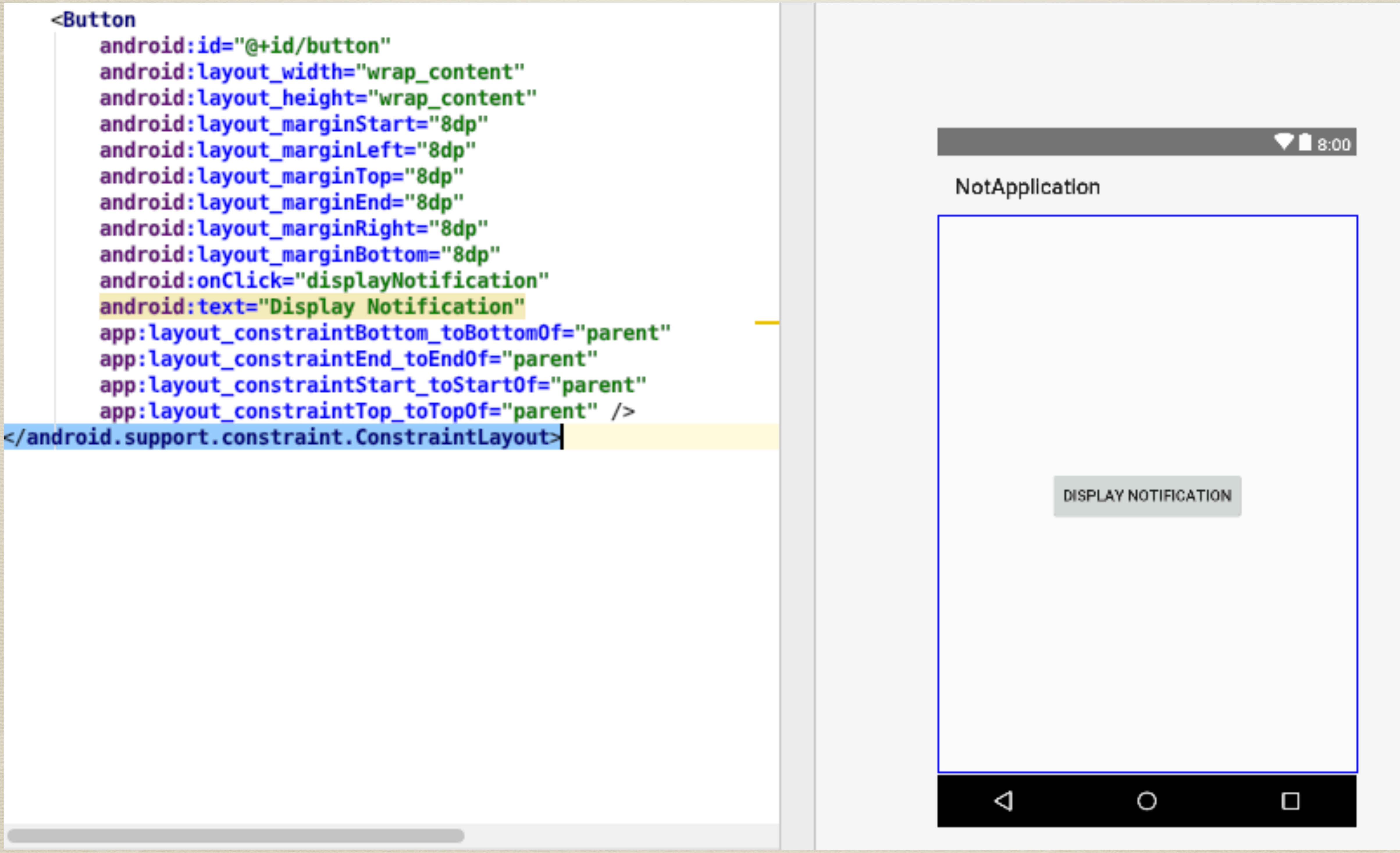
TextView

text Display Notifica

text

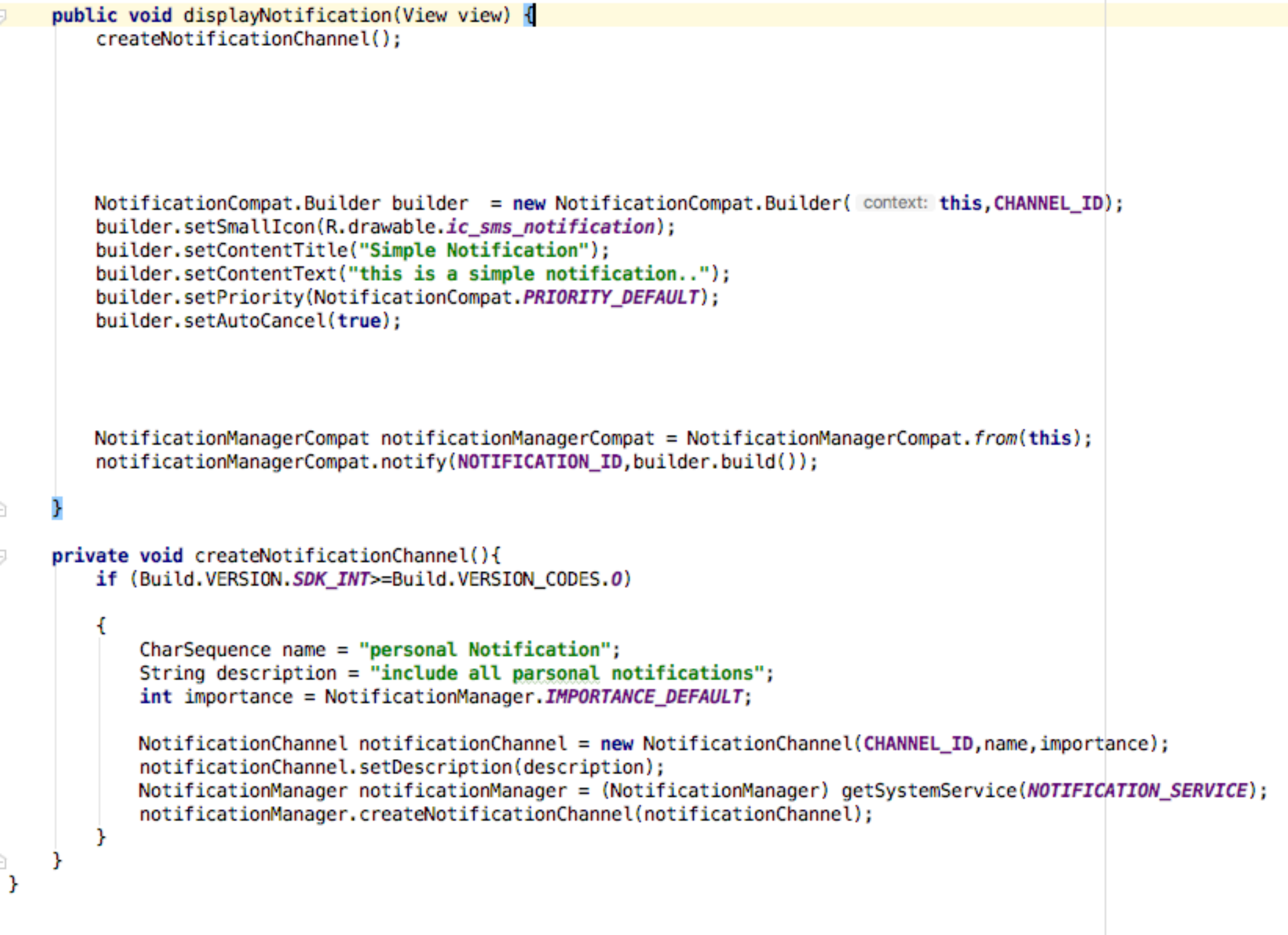
contentDescri

Code pour le bouton



```
    <Button
        android:id="@+id/button"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:layout_marginStart="8dp"
        android:layout_marginLeft="8dp"
        android:layout_marginTop="8dp"
        android:layout_marginEnd="8dp"
        android:layout_marginRight="8dp"
        android:layout_marginBottom="8dp"
        android:onClick="displayNotification"
        android:text="Display Notification"
        app:layout_constraintBottom_toBottomOf="parent"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="parent" />
</android.support.constraint.ConstraintLayout>
```

Le code de la notification



```java
    public void displayNotification(View view) {
        createNotificationChannel();







        NotificationCompat.Builder builder  = new NotificationCompat.Builder( context: this,CHANNEL_ID);
        builder.setSmallIcon(R.drawable.ic_sms_notification);
        builder.setContentTitle("Simple Notification");
        builder.setContentText("this is a simple notification..");
        builder.setPriority(NotificationCompat.PRIORITY_DEFAULT);
        builder.setAutoCancel(true);




        NotificationManagerCompat notificationManagerCompat = NotificationManagerCompat.from(this);
        notificationManagerCompat.notify(NOTIFICATION_ID,builder.build());

    }

    private void createNotificationChannel(){
        if (Build.VERSION.SDK_INT>=Build.VERSION_CODES.O)

        {
            CharSequence name = "personal Notification";
            String description = "include all parsonal notifications";
            int importance = NotificationManager.IMPORTANCE_DEFAULT;

            NotificationChannel notificationChannel = new NotificationChannel(CHANNEL_ID,name,importance);
            notificationChannel.setDescription(description);
            NotificationManager notificationManager = (NotificationManager) getSystemService(NOTIFICATION_SERVICE);
            notificationManager.createNotificationChannel(notificationChannel);
        }
    }
}
```

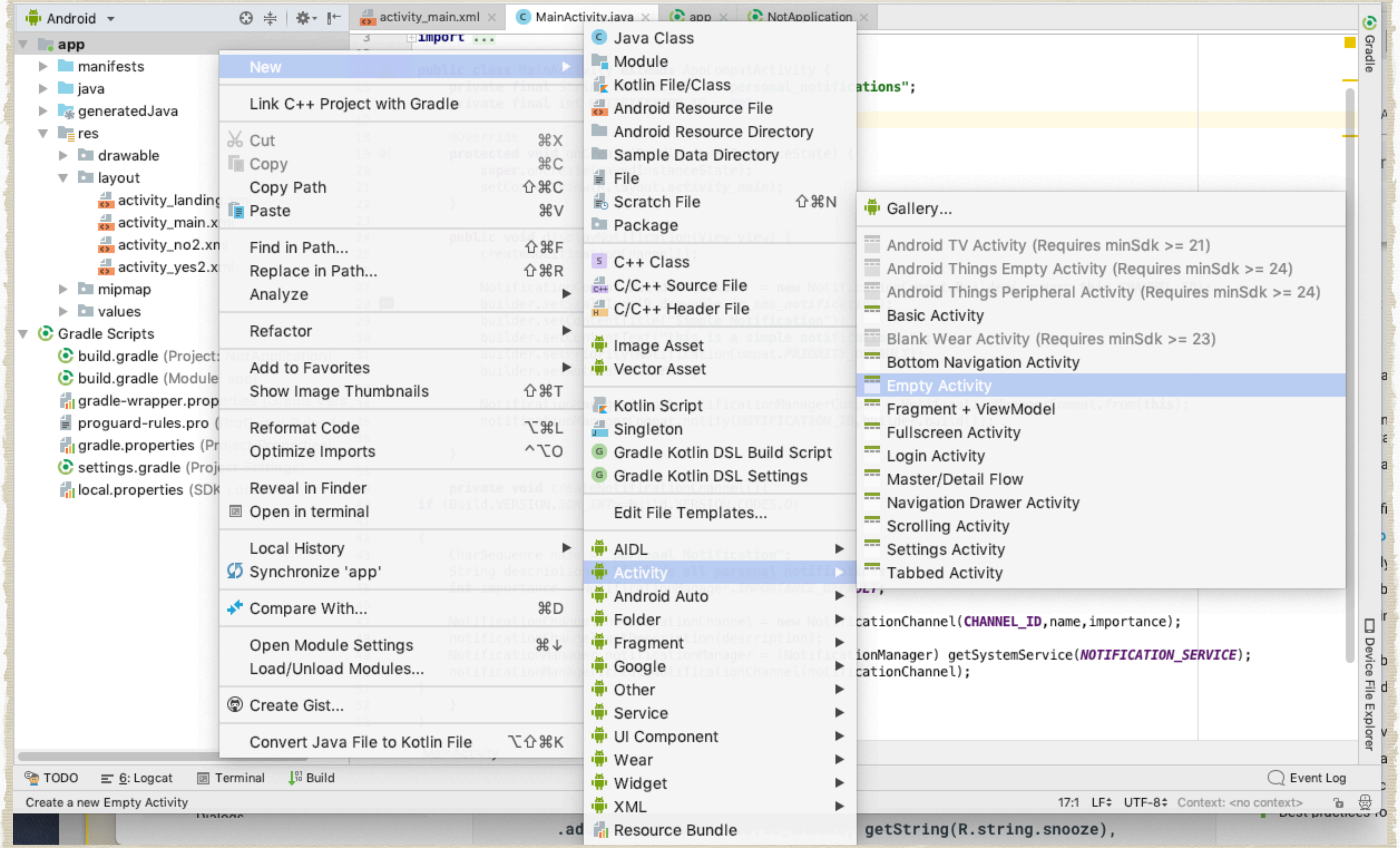
Des boutons d'action

- Une notification peut offrir jusqu'à trois boutons d'action permettant à l'utilisateur de répondre rapidement, par exemple, répéter un rappel ou même répondre à un message texte. Mais ces boutons d'action ne doivent pas dupliquer l'action effectuée lorsque l'utilisateur appuie sur la notification.

Ajouter un bouton d’action

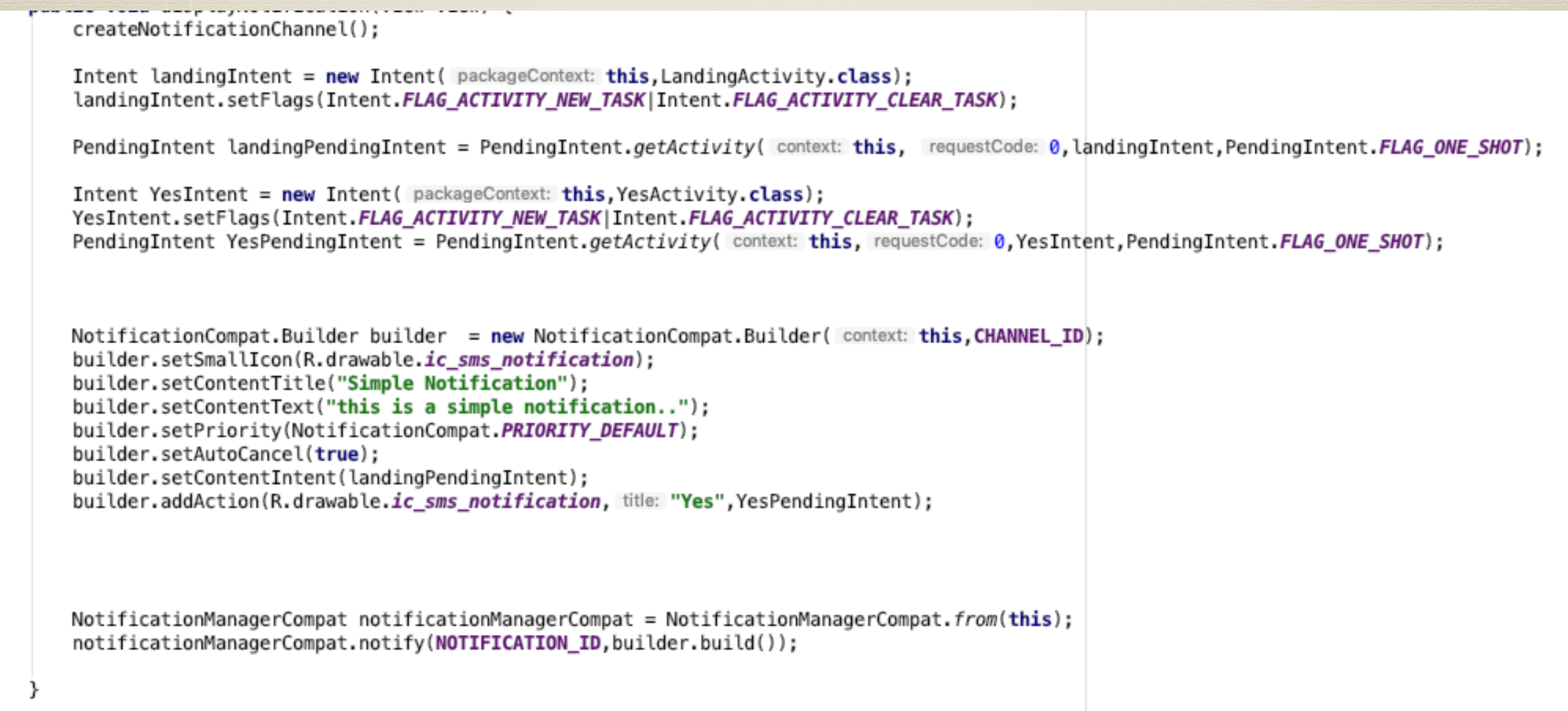
- Pour ajouter un bouton d'action, passez un PendingIntent à addAction ()

Ajouter une activity



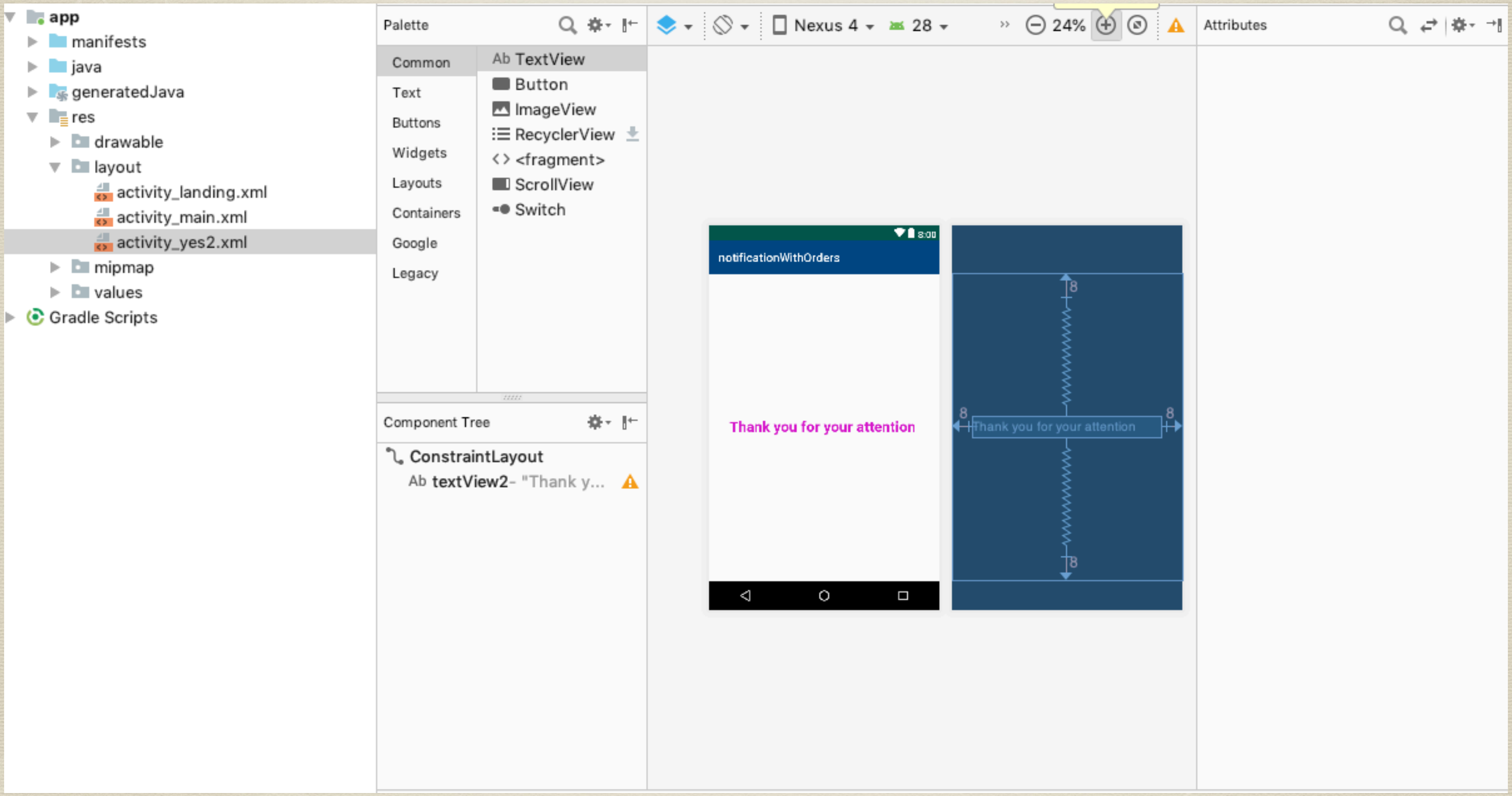
```
import ...
ations";
cationChannel(CHANNEL_ID,name,importance);
ionManager) getSystemService(NOTIFICATION_SERVICE);
cationChannel);
.ad getString(R.string.snooze),
```

Le code pour bouton de réponse

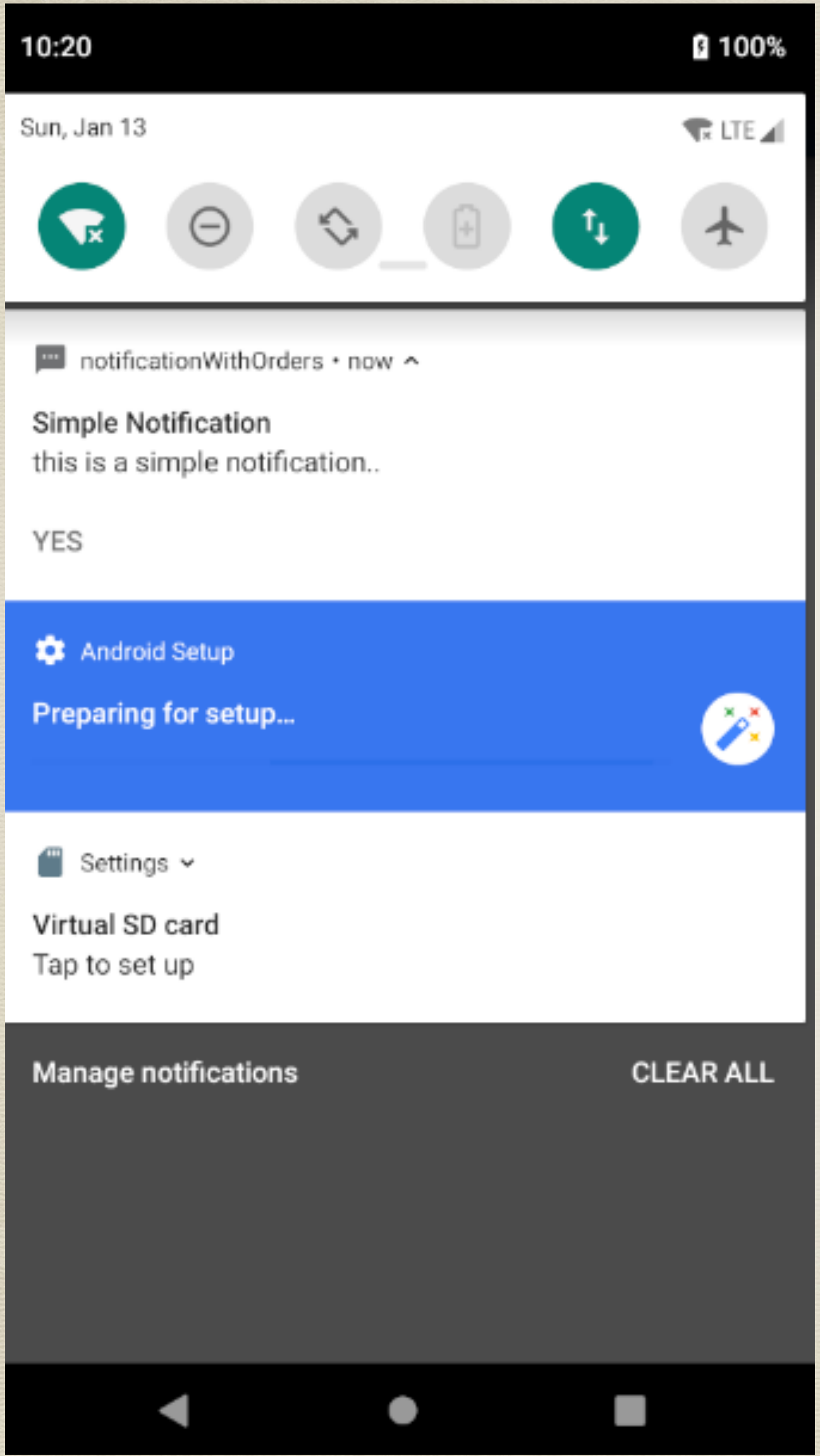


```
public void displayNotification(View view) {
    createNotificationChannel();

    Intent landingIntent = new Intent( packageContext: this,LandingActivity.class);
    landingIntent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK|Intent.FLAG_ACTIVITY_CLEAR_TASK);

    PendingIntent landingPendingIntent = PendingIntent.getActivity( context: this,  requestCode: 0,landingIntent,PendingIntent.FLAG_ONE_SHOT);

    Intent YesIntent = new Intent( packageContext: this,YesActivity.class);
    YesIntent.setFlags(Intent.FLAG_ACTIVITY_NEW_TASK|Intent.FLAG_ACTIVITY_CLEAR_TASK);
    PendingIntent YesPendingIntent = PendingIntent.getActivity( context: this, requestCode: 0,YesIntent,PendingIntent.FLAG_ONE_SHOT);



    NotificationCompat.Builder builder  = new NotificationCompat.Builder( context: this,CHANNEL_ID);
    builder.setSmallIcon(R.drawable.ic_sms_notification);
    builder.setContentTitle("Simple Notification");
    builder.setContentText("this is a simple notification..");
    builder.setPriority(NotificationCompat.PRIORITY_DEFAULT);
    builder.setAutoCancel(true);
    builder.setContentIntent(landingPendingIntent);
    builder.addAction(R.drawable.ic_sms_notification, title: "Yes",YesPendingIntent);




    NotificationManagerCompat notificationManagerCompat = NotificationManagerCompat.from(this);
    notificationManagerCompat.notify(NOTIFICATION_ID,builder.build());

}
```

TexteView


app
manifests
java
generatedJava
res
drawable
layout
activity_landing.xml
activity_main.xml
activity_yes2.xml
mipmap
values
Gradle Scripts
Palette
Common
Text
Buttons
Widgets
Layouts
Containers
Google
Legacy
Ab TextView
Button
ImageView
RecyclerView
<fragment>
ScrollView
Switch
Component Tree
ConstraintLayout
Ab textView2- "Thank y...
Nexus 4
28
24%
Attributes
8:00
notificationWithOrders
Thank you for your attention
8
8
8
8
Thank you for your attention

ÇA DONNE QUOI EN VRAI ?



10:20 100%

Sun, Jan 13 LTE

notificationWithOrders • now

Simple Notification
this is a simple notification..

YES

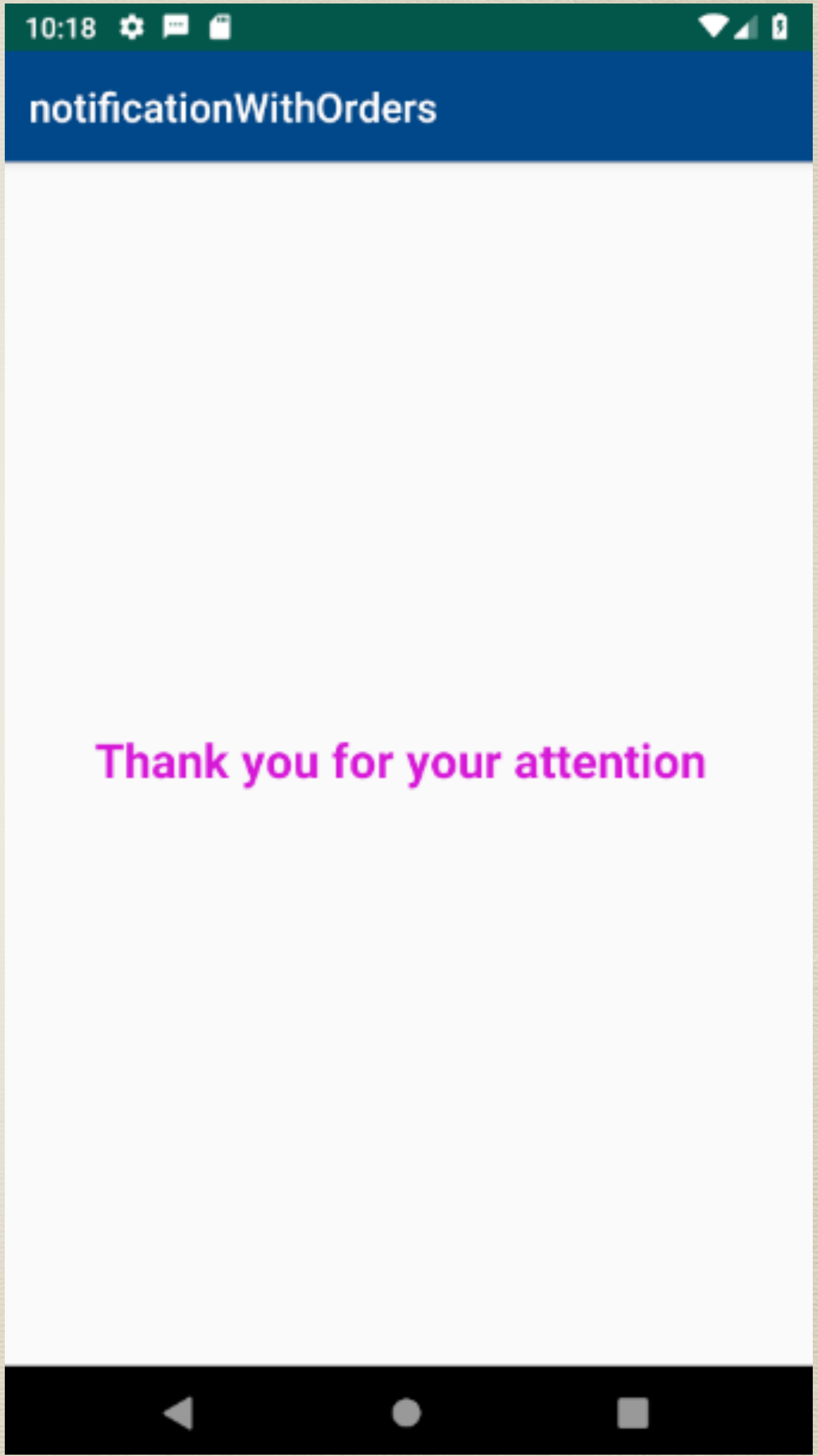
Android Setup

Preparing for setup...

Settings

Virtual SD card
Tap to set up

Manage notifications CLEAR ALL



10:18

notificationWithOrders

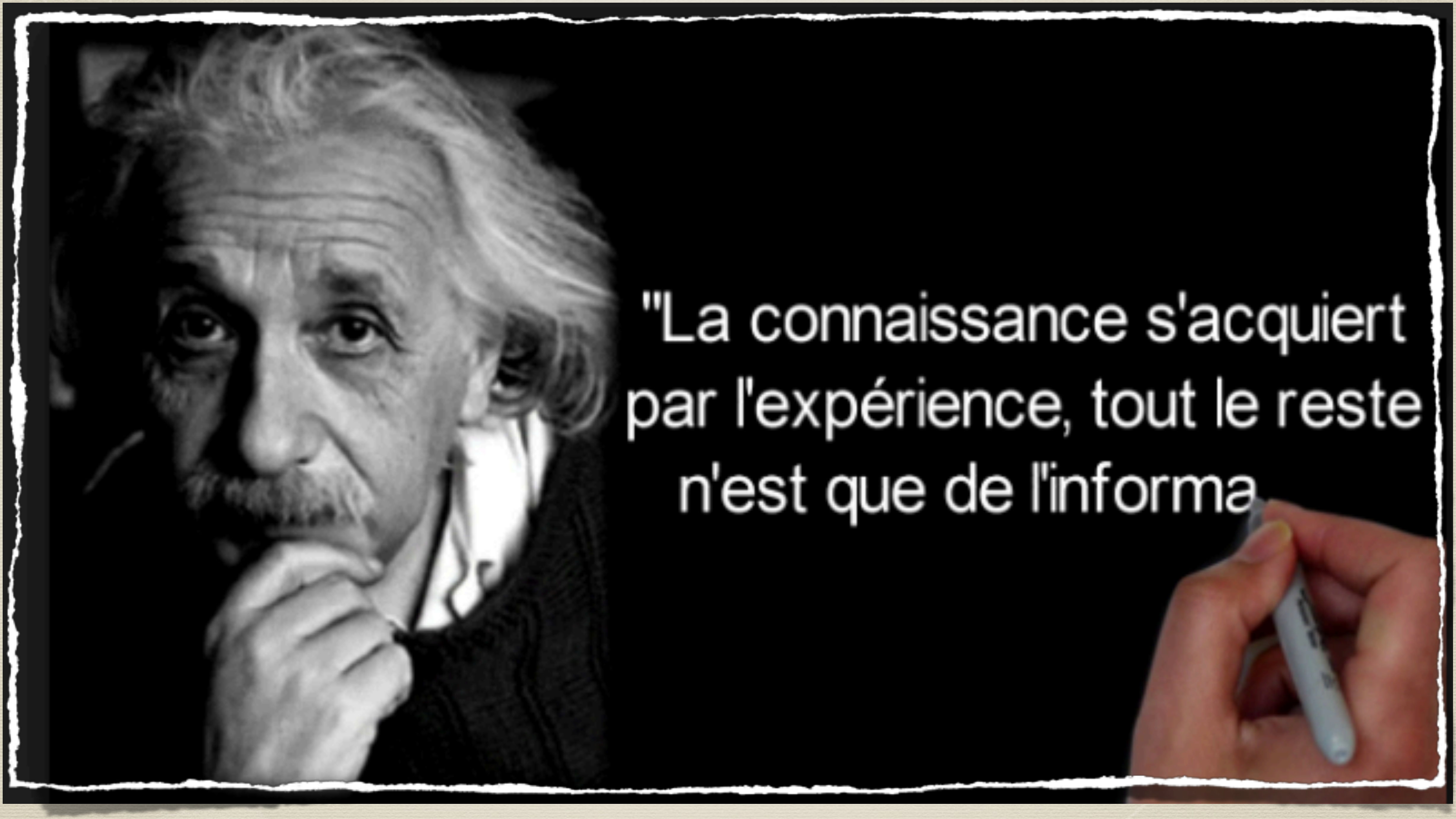
Thank you for your attention

Sources

HTTPS://DEVELOPER.ANDROID.COM/TRAINING/NOTIFY-USER/BUILD-NOTIFICATION

- Vous retrouverez ce lien dans : Android : Sujets de mini-projets individuels
- Une question ? Envoyez moi un mail : souad.bellouni@gmail.com

Merci de votre attention



"La connaissance s'acquiert
par l'expérience, tout le reste
n'est que de l'informa