

# CESI

Formation Android

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Ingénieur logiciel

- Développeur au CM Arkéa
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@\_stephane\_



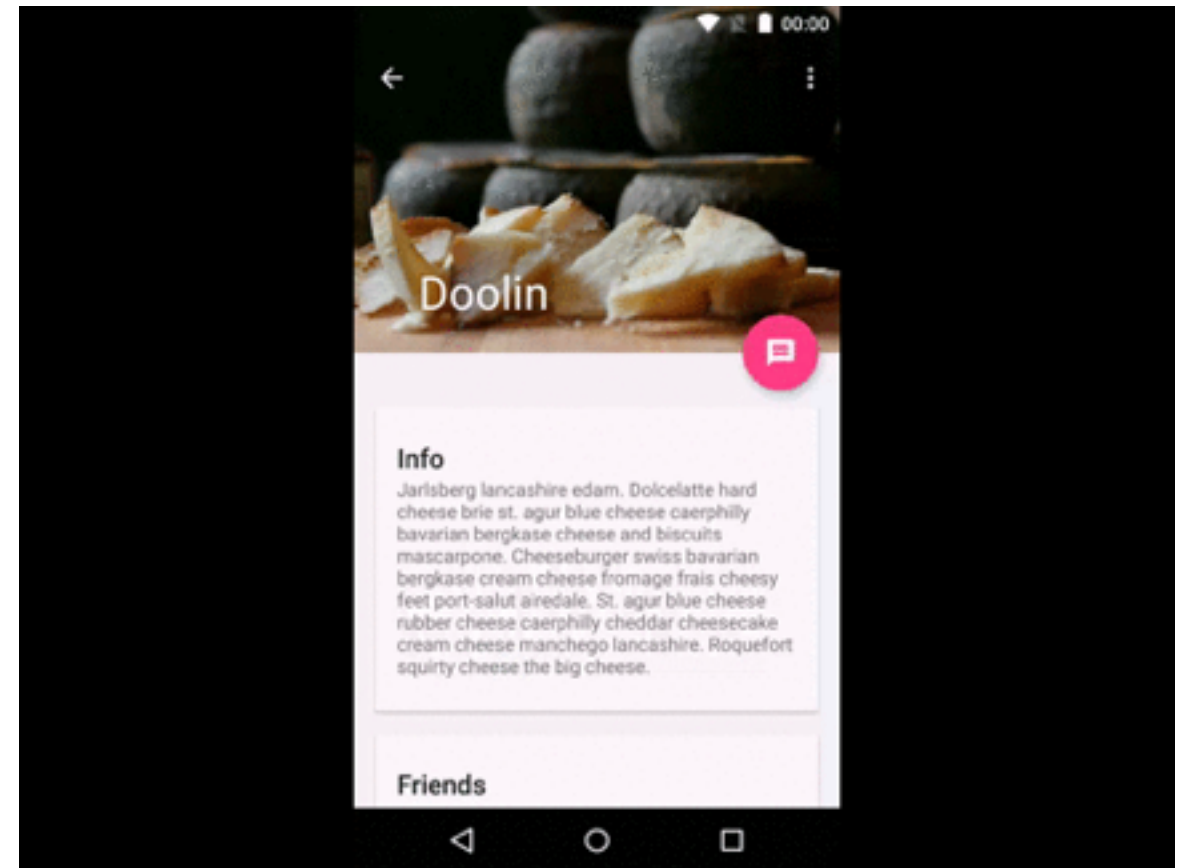
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# Objectifs de l'atelier

- Découvrir le Material Design
- Composants graphiques avancés

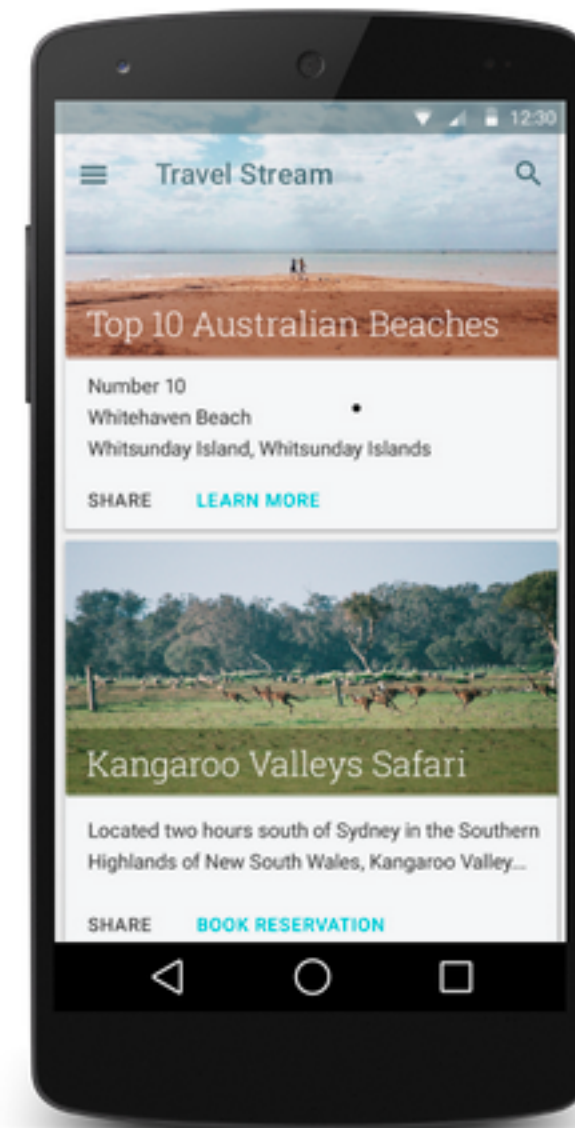
# Le Material Design: c'est quoi?

- Introduit avec Android L preview
- Ensemble de composants, APIs et guidelines
- Plus seulement sur Android



# Le Material Design: objectifs

- Synthétiser les principes d'un bon design
- Fournir une expérience unifiée



The new **CardView** widget lets you display important pieces of information inside cards that have a consistent look and feel.

# Le Material Design: les composants

<http://www.google.com/design/spec/components/>

<http://developer.android.com/training/material/>

## Components

Bottom sheets

Buttons

Buttons: Floating Action Button

Cards

Chips

Data tables

Dialogs

Dividers

Grid lists

Lists

Lists: Controls

Menus

Pickers

Progress & activity

Selection controls

Sliders

Snackbars & toasts

Subheaders

Tabs

Text fields

Toolbars

Tooltips

# Le Material Design

Oui, mais c'est pour Android Lollipop

# Le Material Design

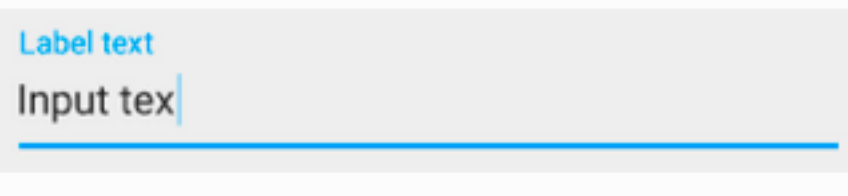
Android Design support Library

Merci Google



# Le Material Design:

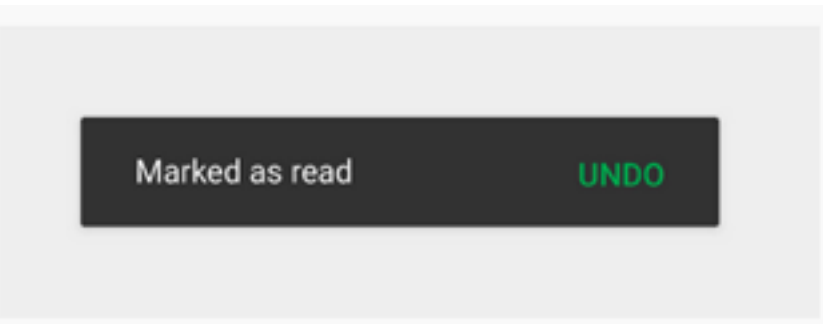
## les composants



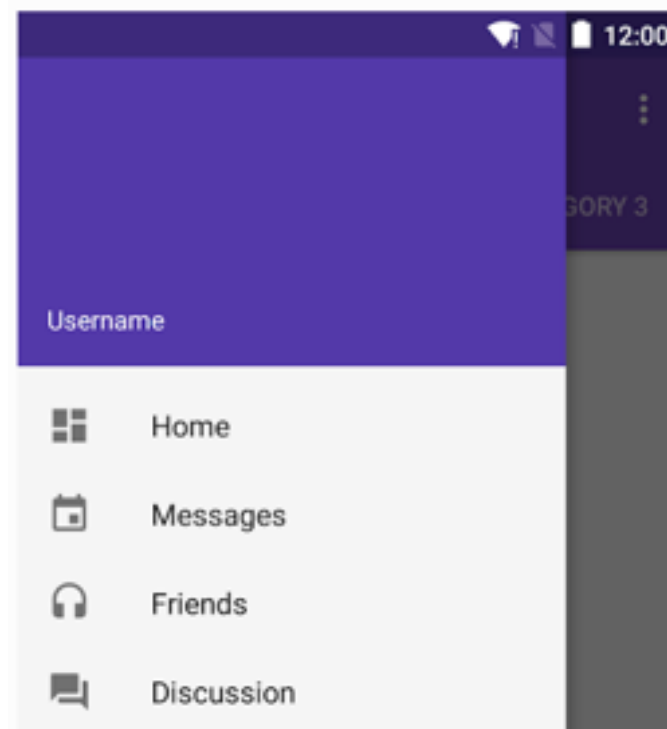
Floating label



Floating Action button



Snackbar



Navigation Drawer



tabs

# Le Material Design

Et aussi Android Support v7

Cards & RecyclerView

# Le Material Design

Comment l'utiliser?

# Le Material Design

## Les dépendances

```
}dependencies {  
    compile fileTree(dir: 'libs', include: ['*.jar'])  
    compile 'com.android.support:design:22.2.0'  
    compile 'com.android.support:appcompat-v7:22.0.0'  
    compile 'com.android.support:support-v4:22.+'  
    compile 'com.android.support:cardview-v7:+'  
    compile 'com.android.support:recyclerview-v7:+'  
}
```

# Le Material Design

## Le style

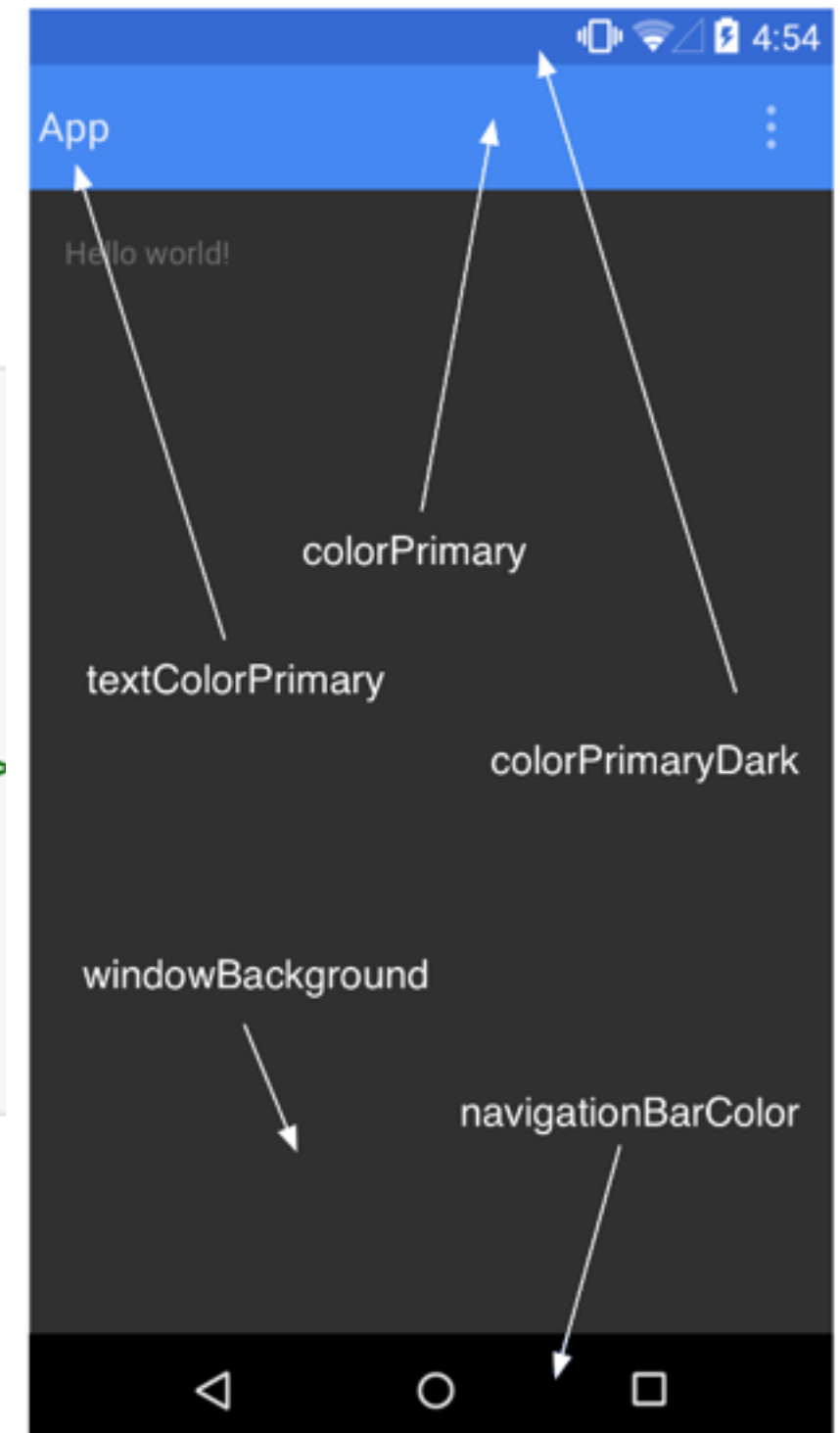
```
<style name="Base.Theme.TchatApp" parent="Theme.AppCompat.Light.NoActionBar">
    <item name="colorPrimary">@color/colorPrimary</item>
    <item name="colorPrimaryDark">@color/colorPrimaryDark</item>
    <item name="colorAccent">@color/colorAccent</item>
    <item name="android:windowBackground">@color/background</item>
</style>
```

Le theme Theme.Material est disponible mais non compatible avant API21

# Le Material Design

## Les couleurs

```
<resources>
  <!-- inherit from the material theme -->
  <style name="AppTheme" parent="android:Theme.Material">
    <!-- Main theme colors -->
    <!-- your app branding color for the app bar -->
    <item name="android:colorPrimary">@color/primary</item>
    <!-- darker variant for the status bar and contextual app bars -->
    <item name="android:colorPrimaryDark">@color/primary_dark</item>
    <!-- theme UI controls like checkboxes and text fields -->
    <item name="android:colorAccent">@color/accent</item>
  </style>
</resources>
```



# Le Material Design

Et sur notre appli TwitterLike.

Ca ressemblerait à quoi?

RECONSTRUCT REMAKE  
RECYCLE REJUVENATE  
REVAMP REDESIGN RENOVATE  
**REIMAGINE**  
RETHINK REUSE RECREATE  
REFURBISH RESTORE RENEW  
REMODEL REDO REVISE