



ANDROID '20

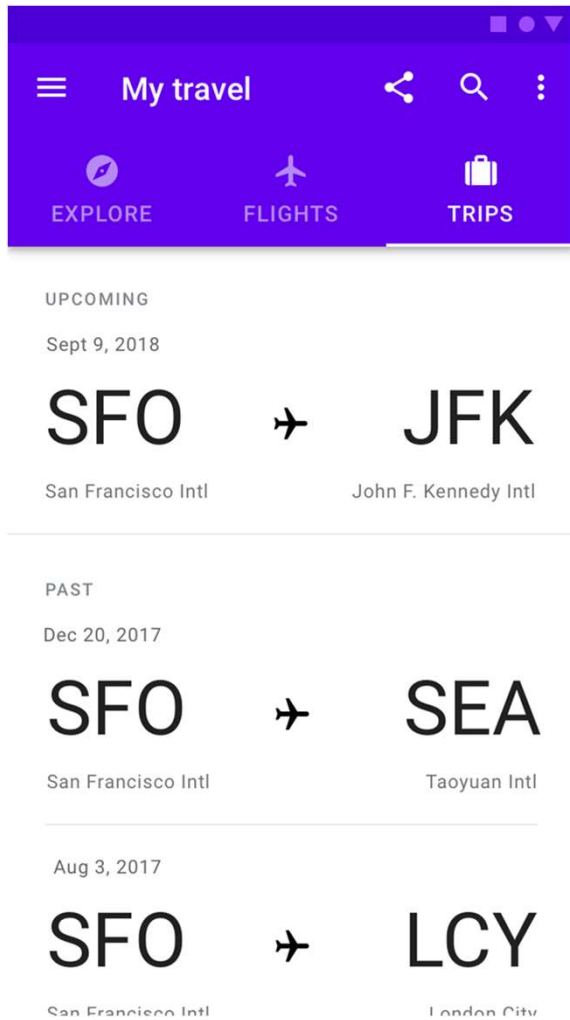


TD 3. Les fragments

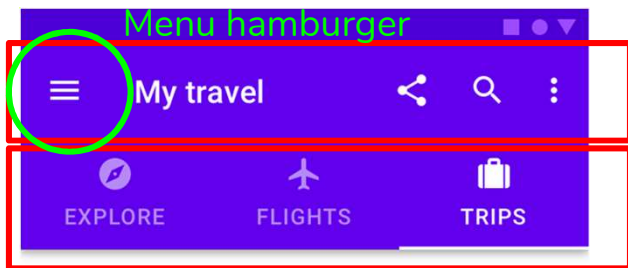


Un problème concret

-> On part d'un écran qui semble facile, mais pas tant que ça :)

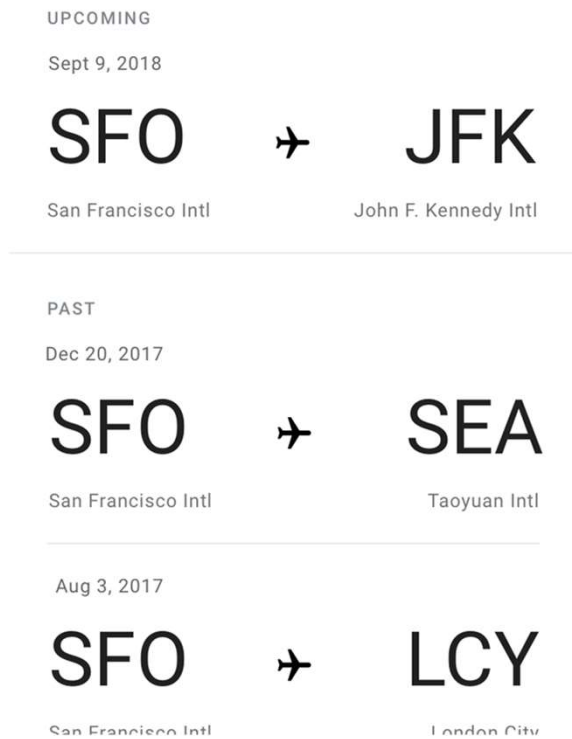


Identifions les éléments



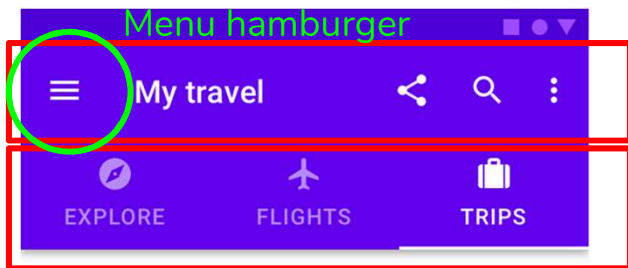
ActionBar

Onglets (tabs)



Depuis le menu je peux changer d'écran, mais la barre reste.

Depuis les onglets je peux changer le contenu mais les onglets et la barre restent.



Menu hamburger

ActionBar

Onglets (tabs)

UPCOMING

Sept 9, 2018

SFO → JFK

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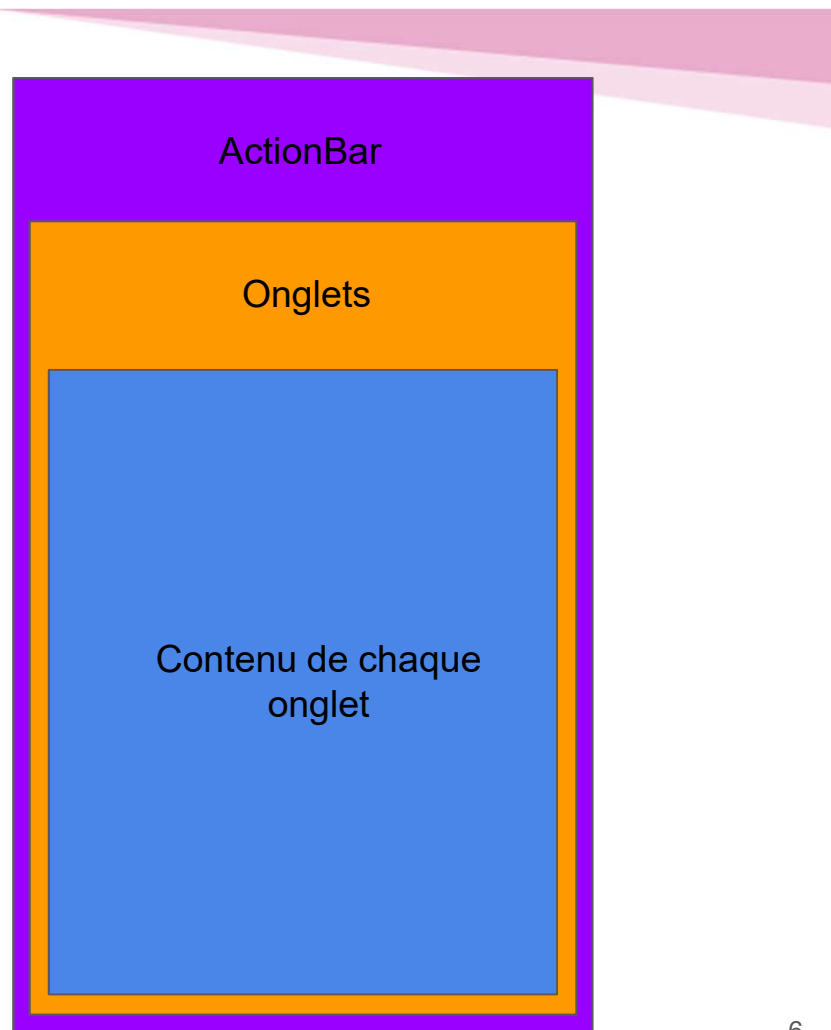
Taoyuan Intl

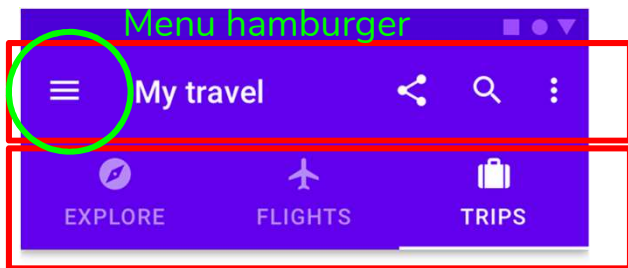
Aug 3, 2017

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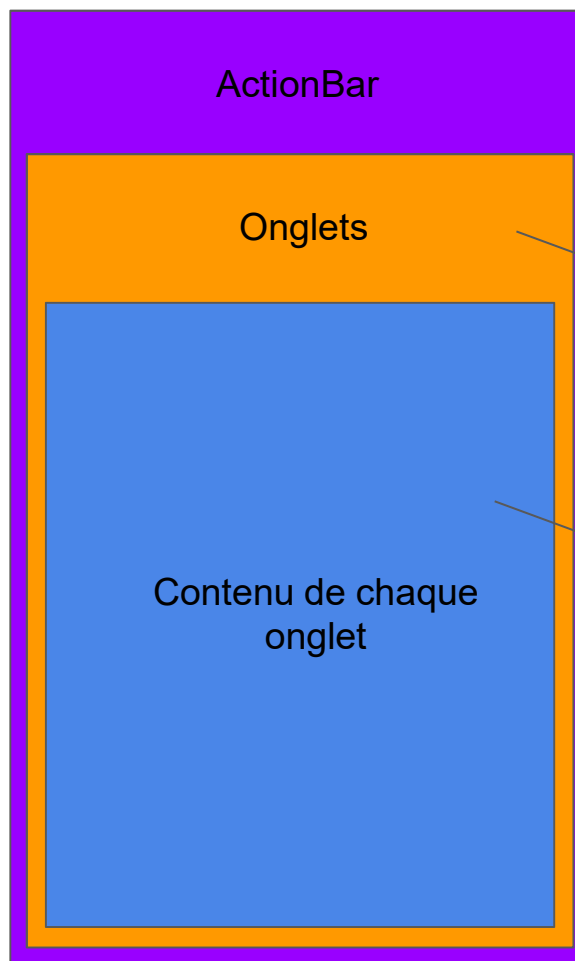
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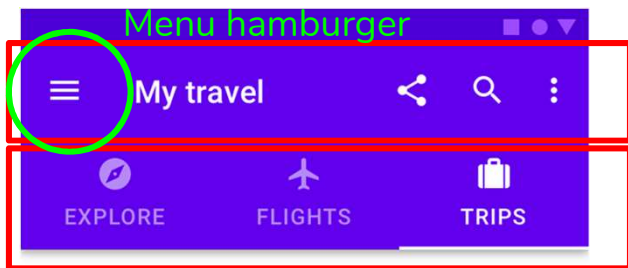
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Ne change jamais, selon le choix du menu ou onglets, **FIXE**

Change selon le choix du menu, imprévisible, **DYNAMIQUE**

Change selon l'onglet mais choix limité, **DYNAMIQUE MAIS RESTREINT**



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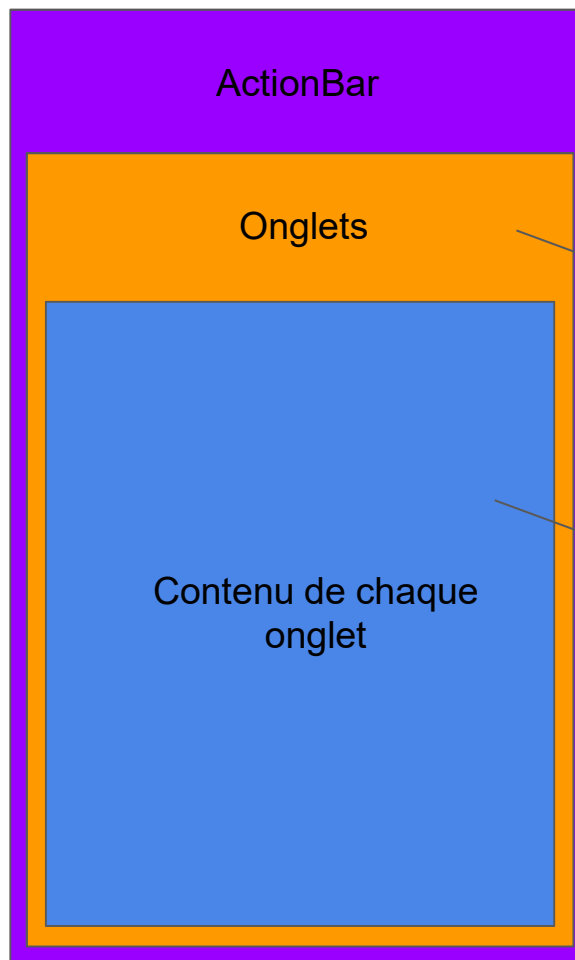
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ActionBar

ACTIVITE

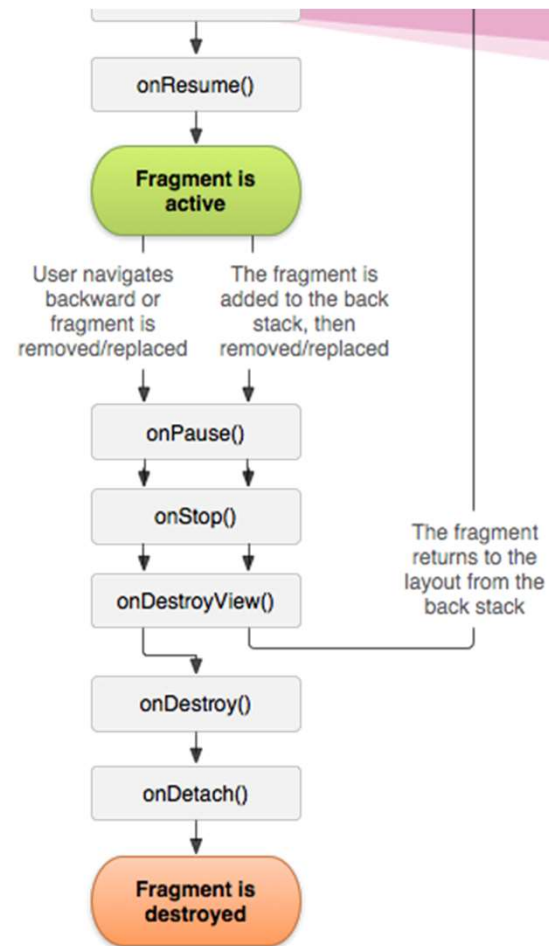
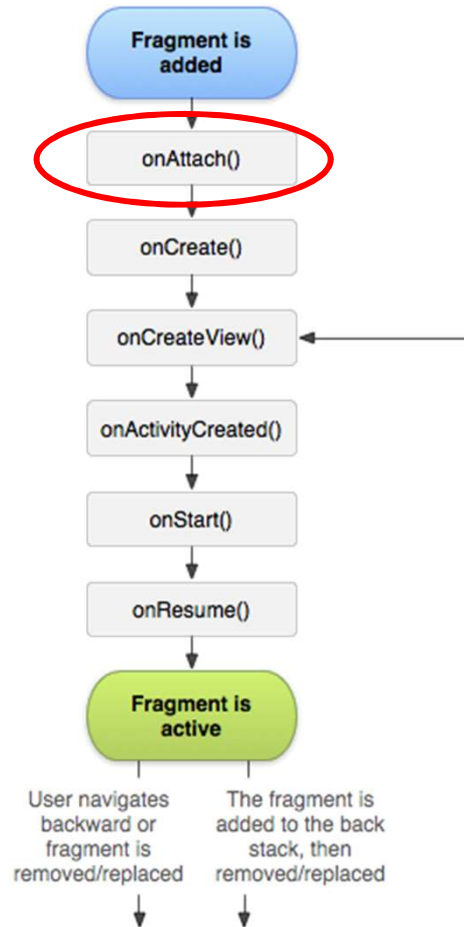
Onglets

FRAGMENT
DYNAMIQUE

Contenu de chaque
onglet

FRAGMENT
STATIQUE

Fragments



Fragments

Activity states	Fragment callbacks	
Activity created	onAttach()	onAttach(Activity) This happens when the fragment is associated with an activity.
	onCreate()	onCreate(Bundle) This is very similar to the activity's onCreate () method. It can be used to do the initial setup of the fragment.
	onCreateView()	onCreateView(LayoutInflater, ViewGroup, Bundle) Fragments use a layout inflater to create their view at this stage.
	onActivityCreated()	onActivityCreated(Bundle) This method is called when the onCreate () method of the activity has completed.
	onStart()	onStart() The onStart () method is called when the fragment is about to become visible.
Activity started		
Activity resumed	onResume()	onResume() Called when the fragment is visible and actively running.
Activity paused	onPause()	onPause() Called when the fragment is no longer interacting with the user.
Activity stopped	onStop()	onStop() Called when the fragment is no longer visible to the user.
Activity destroyed	onDestroyView()	onDestroyView() Gives the fragment the chance to clear away any resources that were associated with its view.
	onDestroy()	onDestroy() In this method, the fragment can clear away any other resources it created.
	onDetach()	onDetach() When the fragment finally loses contact with the activity.

<https://hanaskuliah.wordpress.com/2015/12/07/android-5-development-part-6-fragment/>

Fragments statiques vs dynamiques

Simplement (parce qu'on a pas le temps)

Statiques ?

Déclarés via XML et instanciés automatiquement par Android ou manuellement

Utiles pour des onglets, des choses fixées par avance.

On ne peut pas les gérer dynamiquement et les remplacer facilement/rapidement.

Dynamiques ?

Instanciés via le code manuellement

Peut être gérés via le code et rapidement remplacés dans un conteneur.

Utile quand on doit remplacer du contenu de manière imprévisible



Fragments statiques



Les fragments statiques

Instanciés par XML et ... c'est à peu près tout ce qu'il y a de spécifique !

Docs > Guides > Fragments

<https://developer.android.com/guide/components/fragments.html>

Lire jusqu'à **Declare the fragment inside the activity's layout file (inclus)**

Codons !

<https://github.com/msavaryleblanc/android-eservices-staticfragmenttabs>



Fragments dynamiques



Les fragments dynamiques

Là c'est plus compliqué, retournons sur la doc Devs.

Docs > Guides > Fragments

<https://developer.android.com/guide/components/fragments.html>

Lire et arrêter avant « Communicating with the Activity »

Codons !

<https://github.com/msavaryleblanc/android-eservices-dynamicfragmentmenu>