Mobile Applikationen Fragmente

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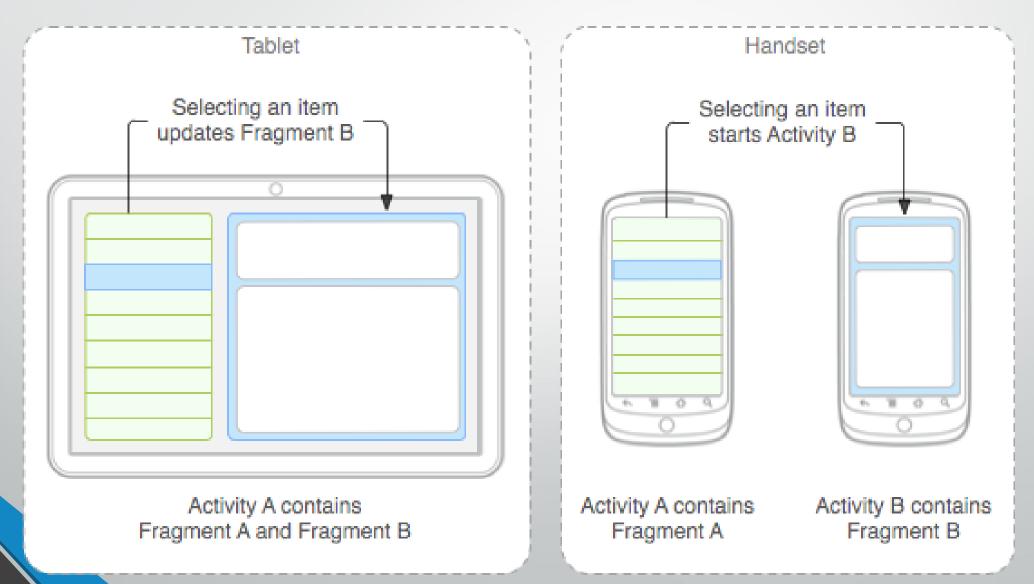
Inhalt

- Grundlagen
- Fragmente in Mehrspalten-Layouts
- Lebenszyklus & Callbacks
- Transaktionen
- Argumente
- Live-Demo

Grundlagen

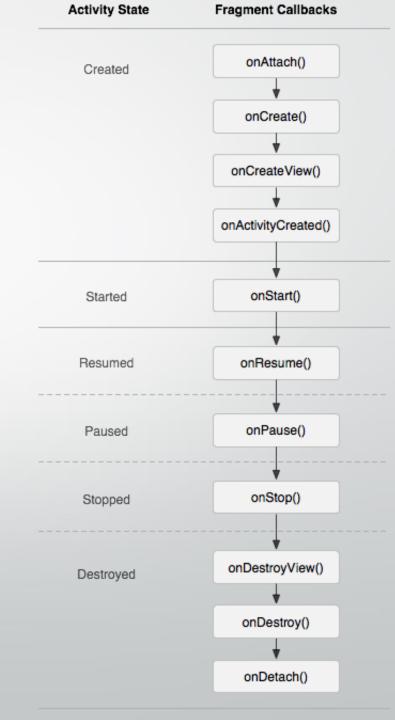
- Mit Android 3.o eingeführt
 - Mehr Platz auf Tablets
- Gliedern Bussinesslogik der Activity
- Können nicht für sich alleine Stehen
- Unabhängig vom Kontext
 - Wiederverwendbar

Fragmente in Mehrspalten-Layouts

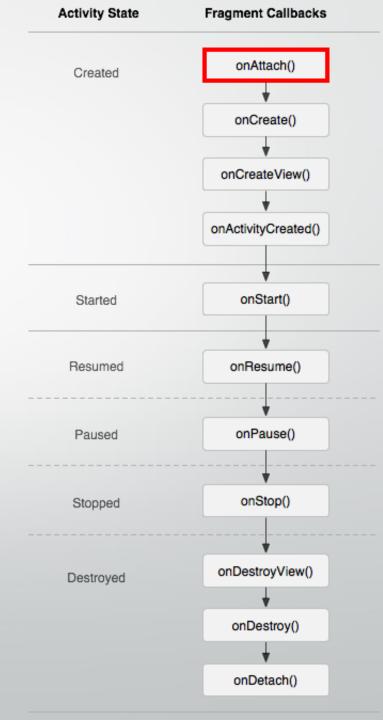


Lebenszyklus

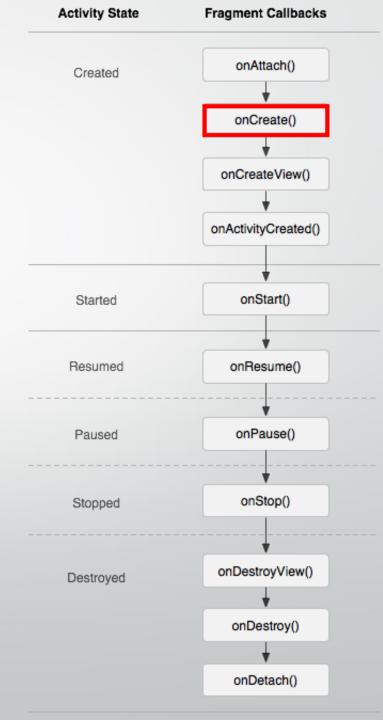
Abhängig den Zyklus der Activity



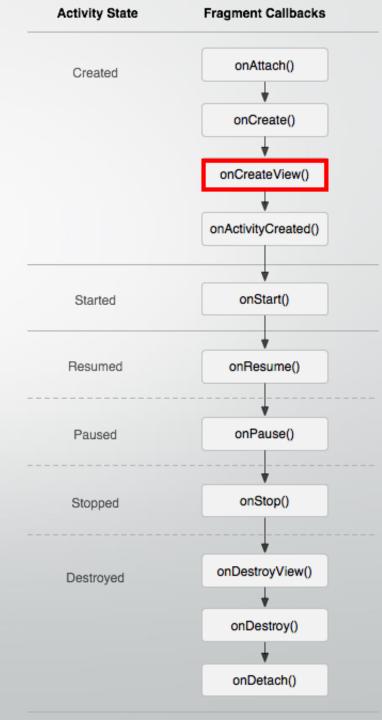
onAttach(Activity)



onCreate(Bundle)



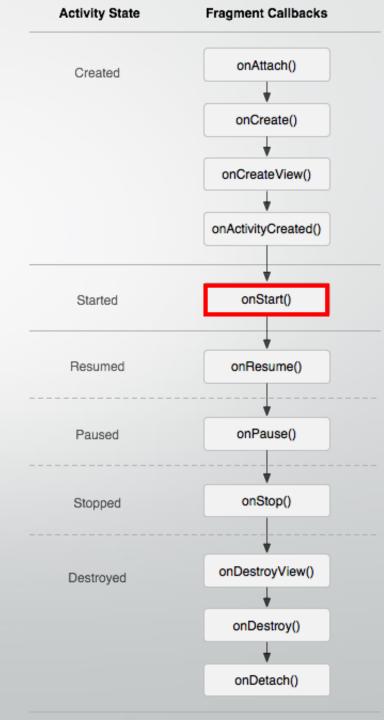
onCreateView(LayoutInflater, ViewGroup, Bundle)



onActivityCreated(Bundle)



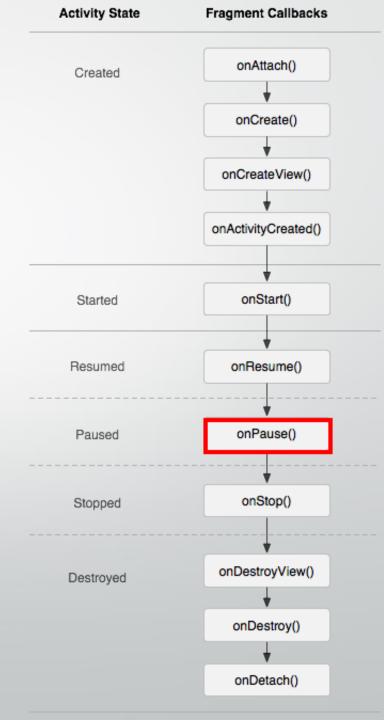
onStart()



onResume()



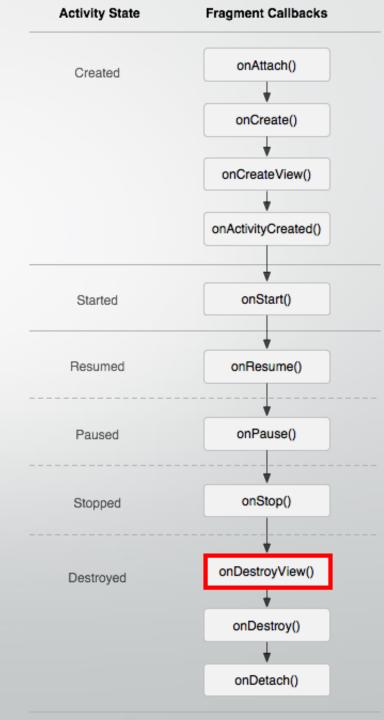
onPause()



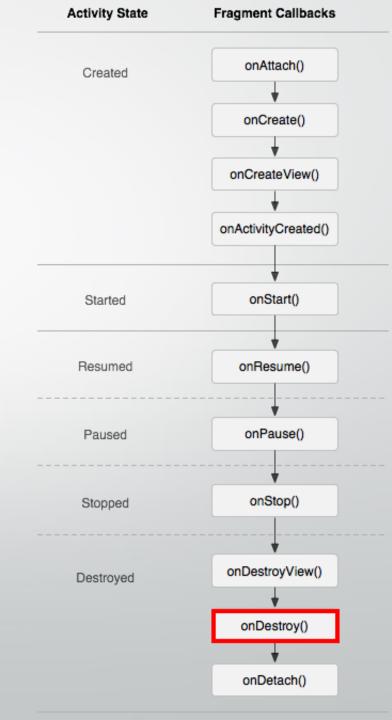
onStop()



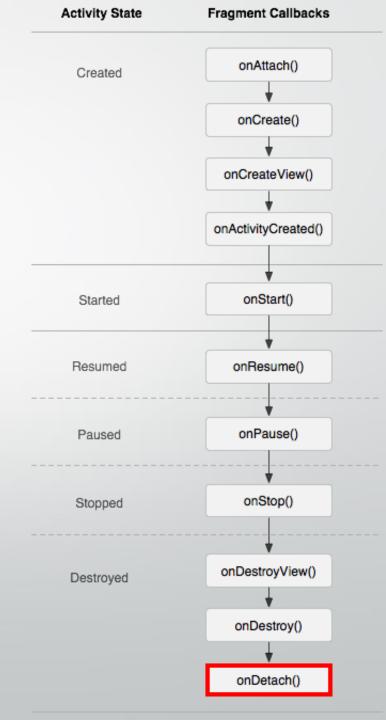
onDestroyView()



onDestroy()



onDetach()



Transaktionen - Add

```
FragmentManager fragmentManager = getFragmentManager();
FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();

// Fragmente erzeugen und hinzufügen
BillingFragment fragment = new BillingFragment();
fragmentTransaction.add(R.id.ll, fragment);

// Transaktion auf Zurück-Stapel legen
fragmentTransaction.addToBackStack(null);
fragmentTransaction.commit();
```

Transaktionen - Replace

```
FragmentManager fragmentManager = getFragmentManager();
FragmentTransaction fragmentTransaction = fragmentManager.beginTransaction();

// Fragmente erzeugen und hinzufügen
BillingFragment fragment = new BillingFragment();
fragmentTransaction.replace(android.R.id.content, fragment);
fragmentTransaction.setTransition(FragmentTransaction.TRANSIT_FRAGMENT_FADE);

// Transaktion auf Zurück-Stapel legen
fragmentTransaction.addToBackStack(null);
fragmentTransaction.commit();
```

Transaktionen - Backstack

- Navigation über die Summe der Transaktionen
- Zurück Taste oder "fm.popBackStack()"
- Inklusiv Flag "fm.popBackStack("cart",FragmentManager.POP_BACK_STACK_INCLUSIVE)"

Argumente

```
EinfachesFragment fragment = new EinfachesFragment();
Bundle args = new Bundle();
args.putString("title", "Project <Hello>");
args.putString("desc", "Hello World");
args.putInt("pic", R.drawable.ic_launcher);
fragment.setArguments(args);
fragmentTransaction.add(R.id.listView1, fragment);
```

Live-Demo