call a method on a fragment in a ViewPager

All I want to do is calling a function of my Fragment's class. But I can't seem to find a way to access the instance of my fragments which are in a ViewPager.

my activity's xml:

```
<android.support.v4.view.ViewPager
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/pager"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MainActivity" />
```

There is no so I can't call findFragmentById() (can I?) also I don't know what to give to findFragmentByTag(), it always return null :/

android   android-fragments   android-fragmentactivity

3 Answers

The pagerAdapter.getItem(int) method usually creates a new instance of the fragment, however, so what you can do is use a HashMap to store a reference to the already existing fragments.

```
// ViewPagerAdapter
private HashMap<Integer, Fragment> fragmentHashMap = new HashMap<>();

@Override
public Fragment getItem(int position) {
    if (fragmentHashMap.get(position) != null) {
        return fragmentHashMap.get(position);
    }
    TabFragment tabFragment = new TabFragment();
    fragmentHashMap.put(position, tabFragment);
    return recipeTabFragment;
}
```

Then you can find your fragment to call its methods:

```
FragmentAdapter fa = (FragmentAdapter)viewPager.getAdapter();
MyFragment f = (MyFragment)fa.getItem(index);
f.myMethod(Object obj);
```

You will have to keep track of which fragment goes with which index because you cast them to their specific class in order to access the method.

The ViewPager should have an FragmentAdapter associated with it. So you can do something like:

```
FragmentAdapter fa = (FragmentAdapter)viewPager.getAdapter();
Fragment f = fa.getItem(index);
```

yes but getItem creates a new instance that's not what I want. unless I should take care of creating it once and then returning the same instance on subsequent calls? but I'm not sure that's the right thing to do –
foke Nov 23 '12 at 0:56

viewPagers don't do their own garbage collection so you should be recycling your fragments. see fragment
pager adapter (developer.android.com/reference/android/support/v4/app/…) if you want a self GCing pager
– chris-tulip Nov 23 '12 at 21:39

Don't use getItem() as it will create a new instance of your fragment. See my answer below. –
Michael Fulton Jul 2 '16 at 23:31

I did this: http://tamsler.blogspot.fr/2011/11/android-viewpager-and-fragments-
part-ii.html

I'm not sure there is no better way to do it...

answered Nov 23 '12 at 21:29

foke
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