Asynchronous Tasks with Android

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Content

- Why should I care about multi threading ?
- What are the options ?
- AsyncTasks to the rescue !
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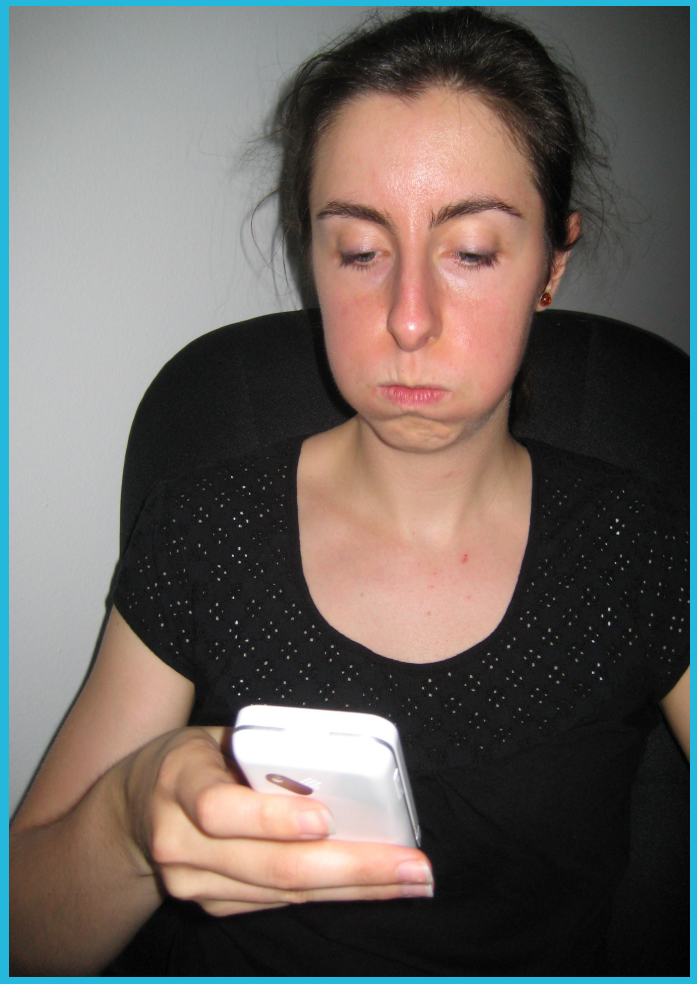
- AsyncTask API : real life example (demo)
- Q&A

Why should I care about threading ?

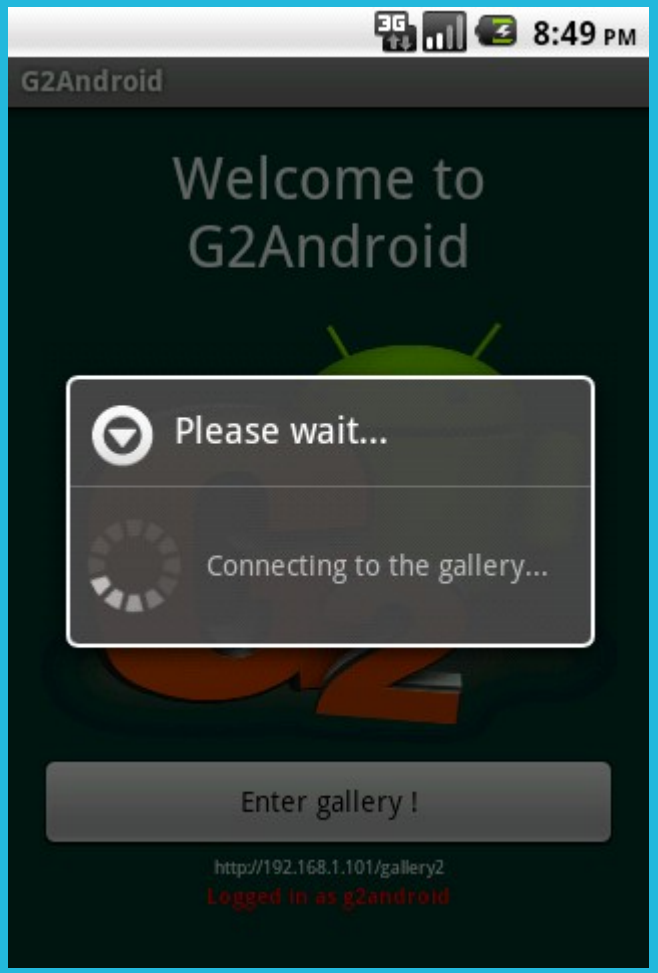
- Remote calls (Http)
- Intense computing (media manipulation)



One thread
=
Frustrated user !

Why should I care about threading ?

- Remote calls (Http)
- Intense computing (media manipulation)



Many threads
=
Happy user

What are the options ?

Handler based API :

Activity.runOnUiThread(Runnable)

View.post(Runnable)

View.postDelayed(Runnable, long)

And .... Handler ! (android.os.Handler)

Or you can try THE REAL THING !

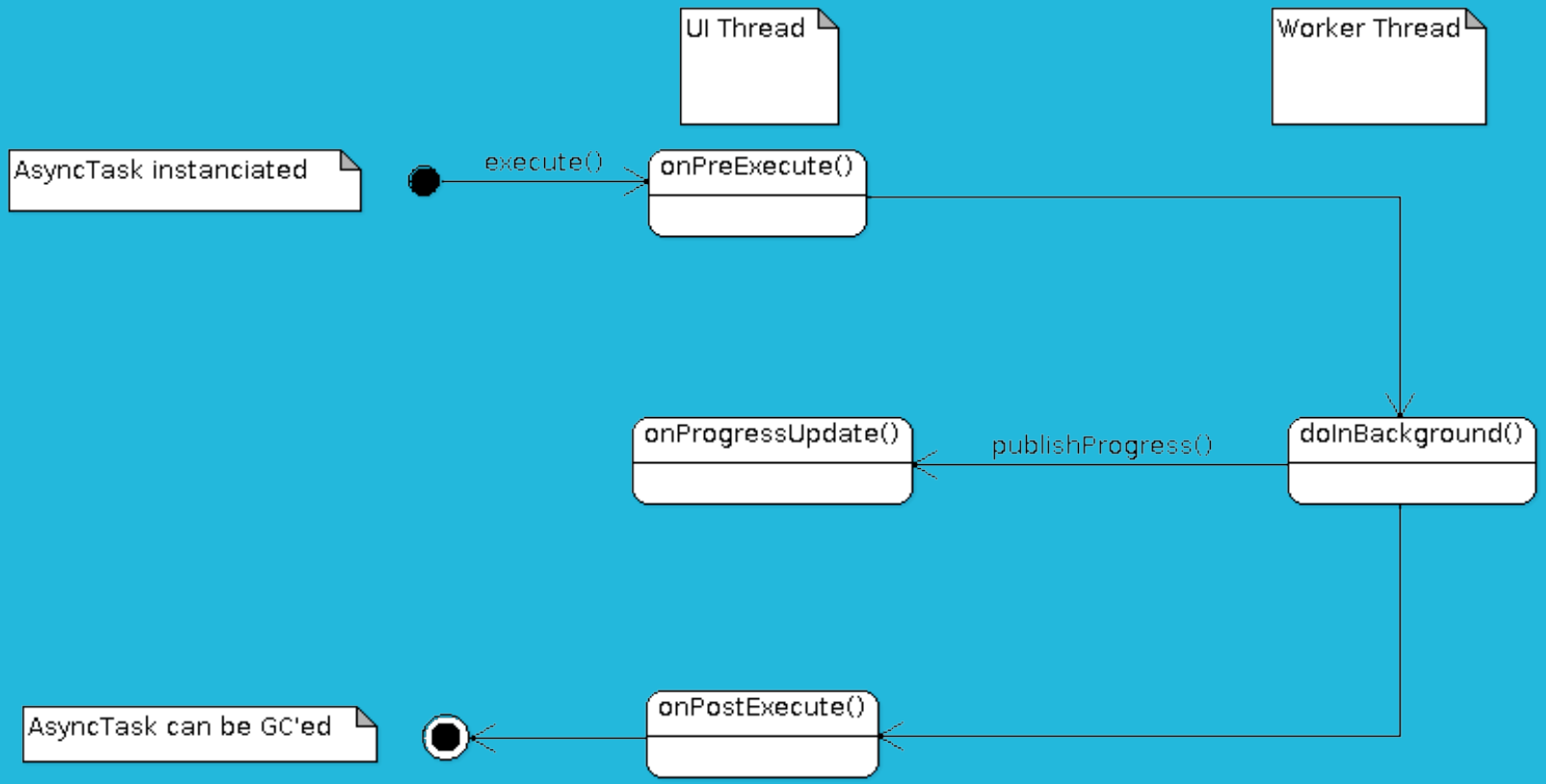
AsyncTasks to the rescue !

Asynctask API :

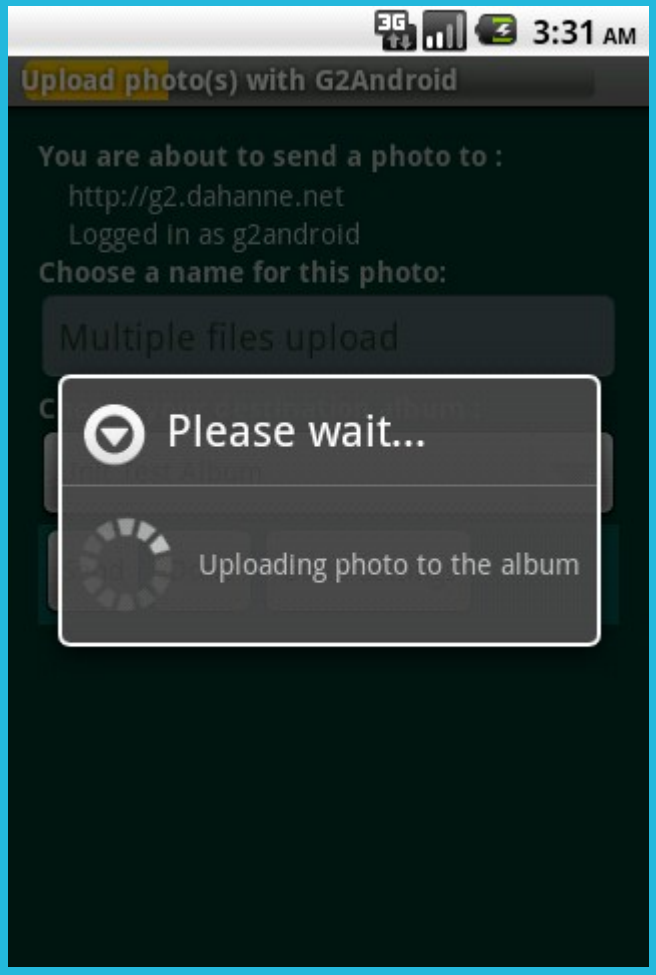
```
Something doInBackground(String... params) {
        return null;
}

protected void onPreExecute() {
}

protected void onPostExecute(Something b) {
}

protected void onProgressUpdate(Ty... values) {
}
```

The best way to round kick your threads !

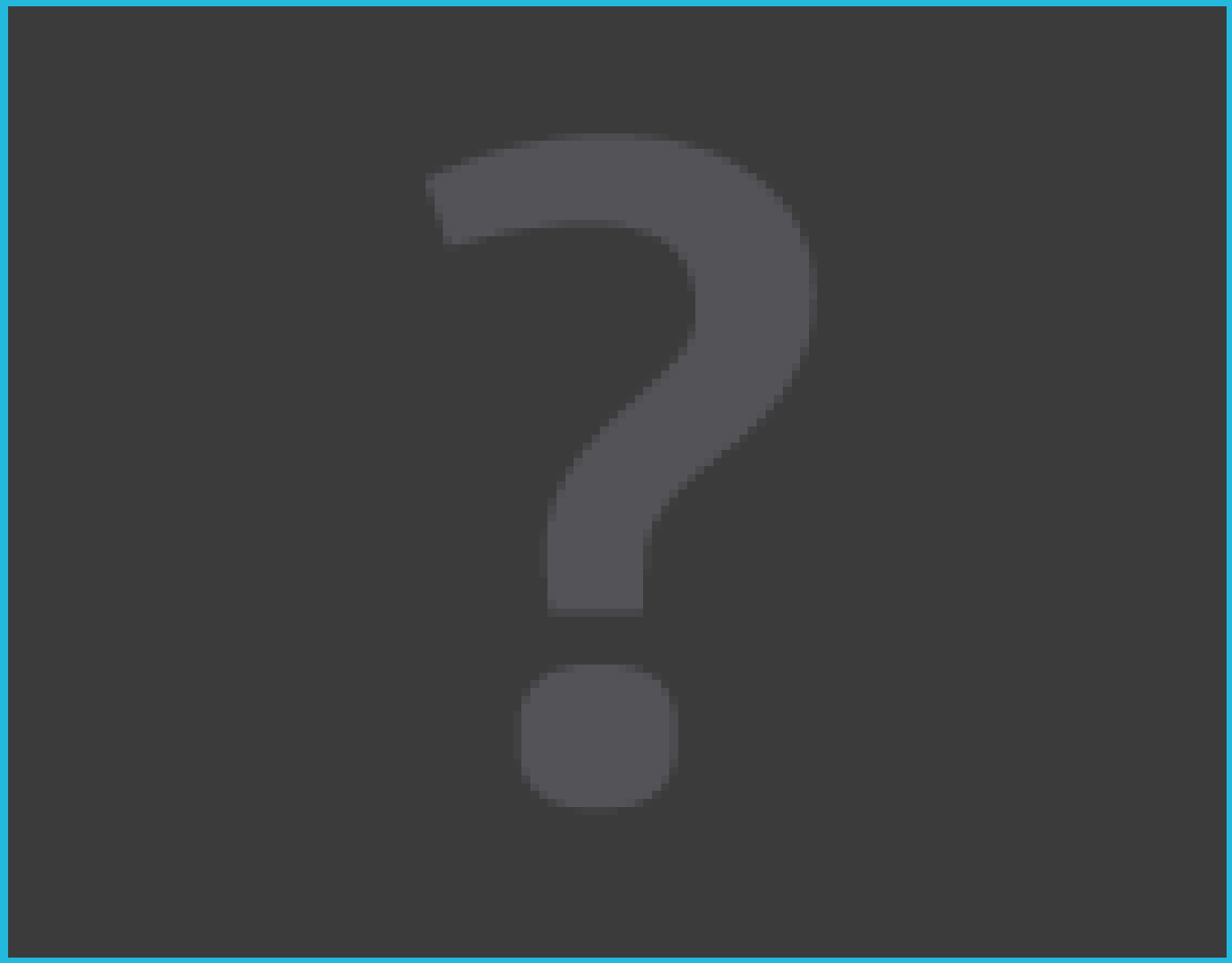
Asynchronous Tasks : the lifecycle



AsyncTask : real life example



The end ! Q&A !



References

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  - Slide 9 : http://www.youtube.com/watch?v=_hZrXdJ-ibo&NR=1