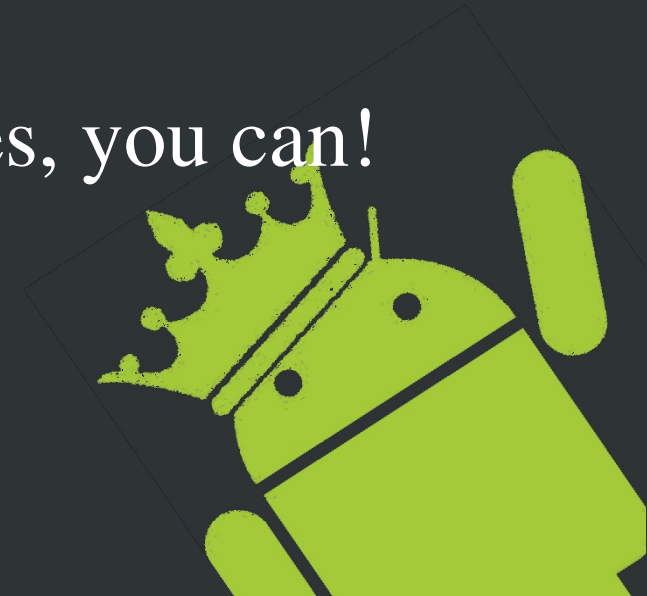# BigBrother

- Probably the best brother in the wolrd!

- Surveilence on the GO

- Ease of use
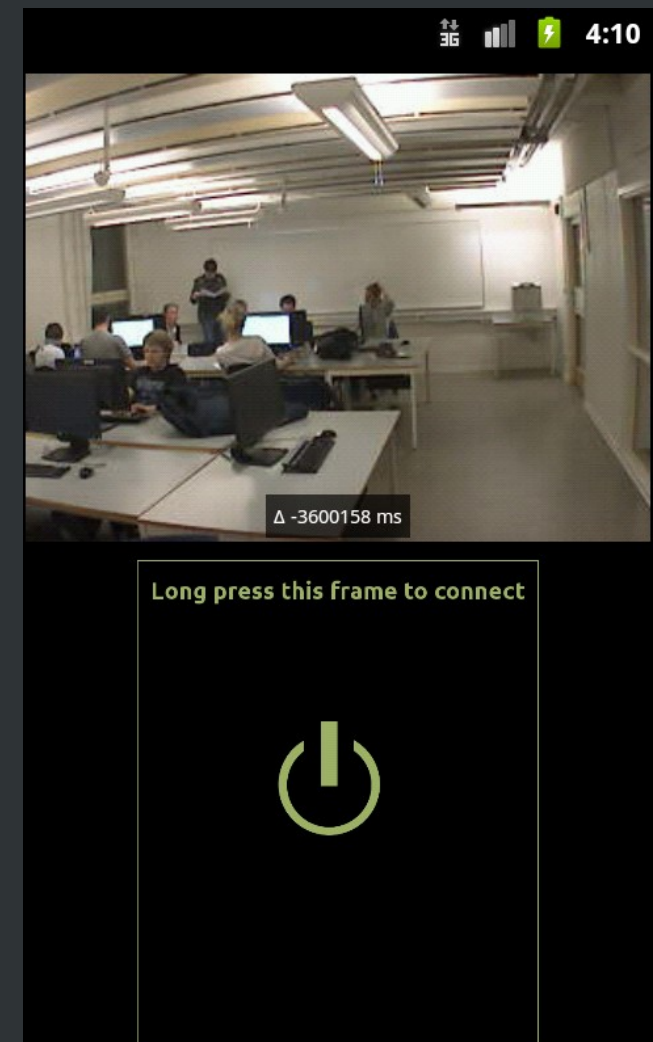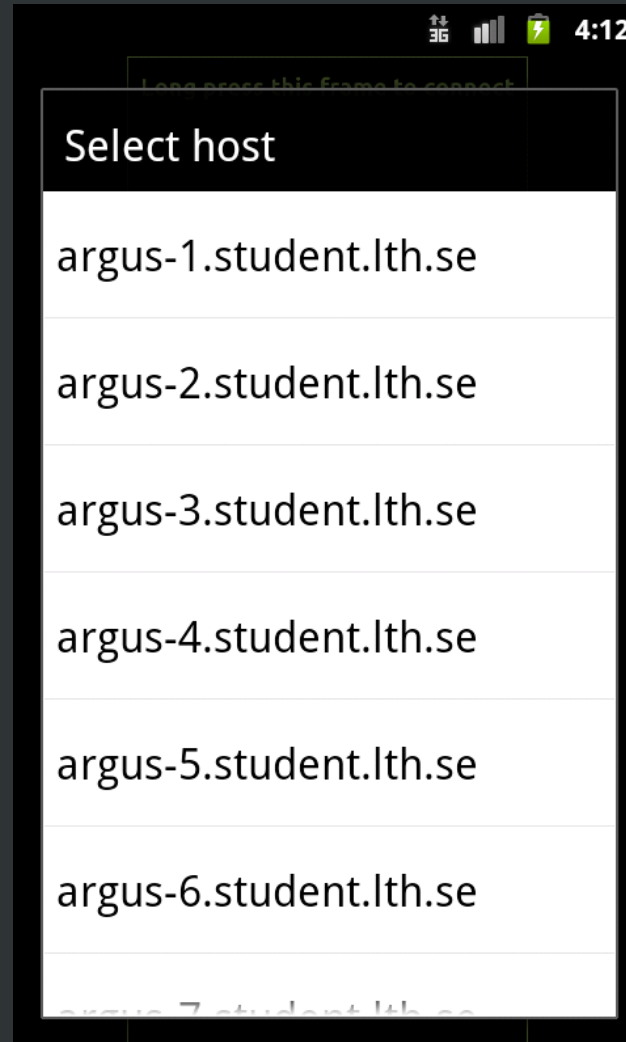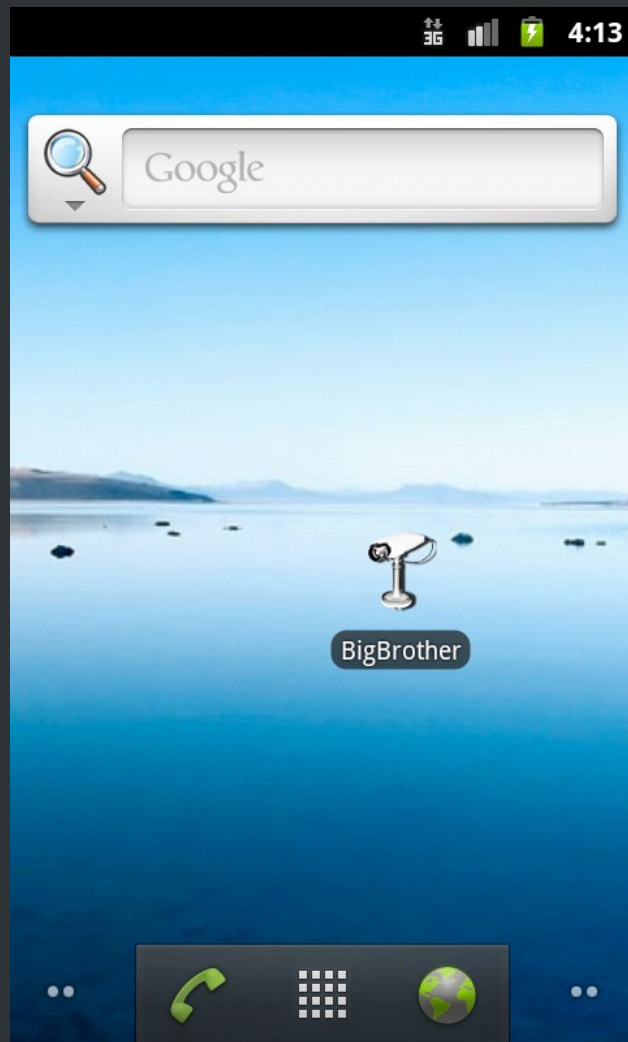
- Easy to install
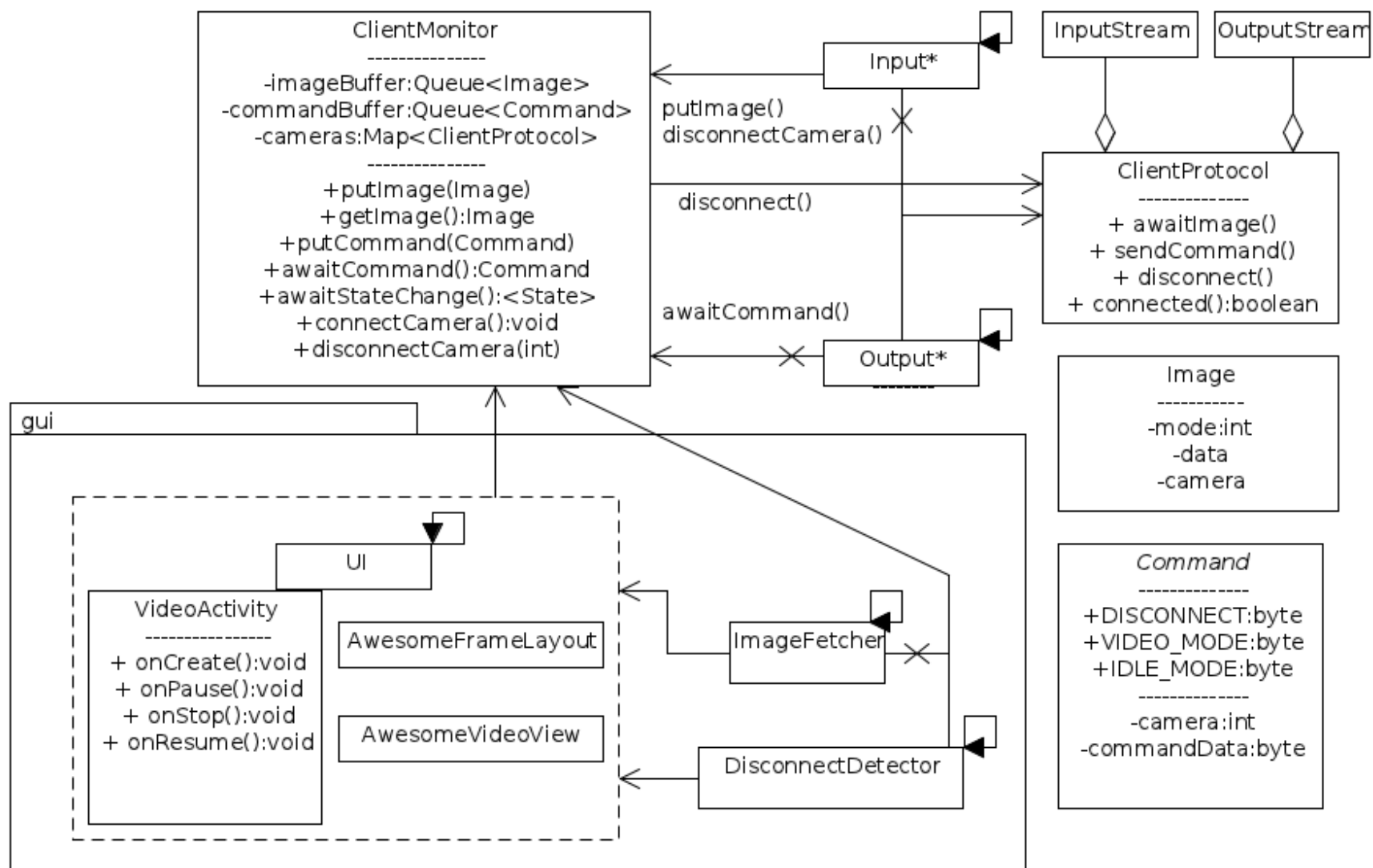
- Timetravelling

Features

- Connect, disconnect and reconnect.

- Connect to TWO servers.

- Motion detection. Adjusting video stream.

- Intuitive user experience.

- Painless server installation.

- Mobile! Grabbing coffe on duty? Yes, you can!
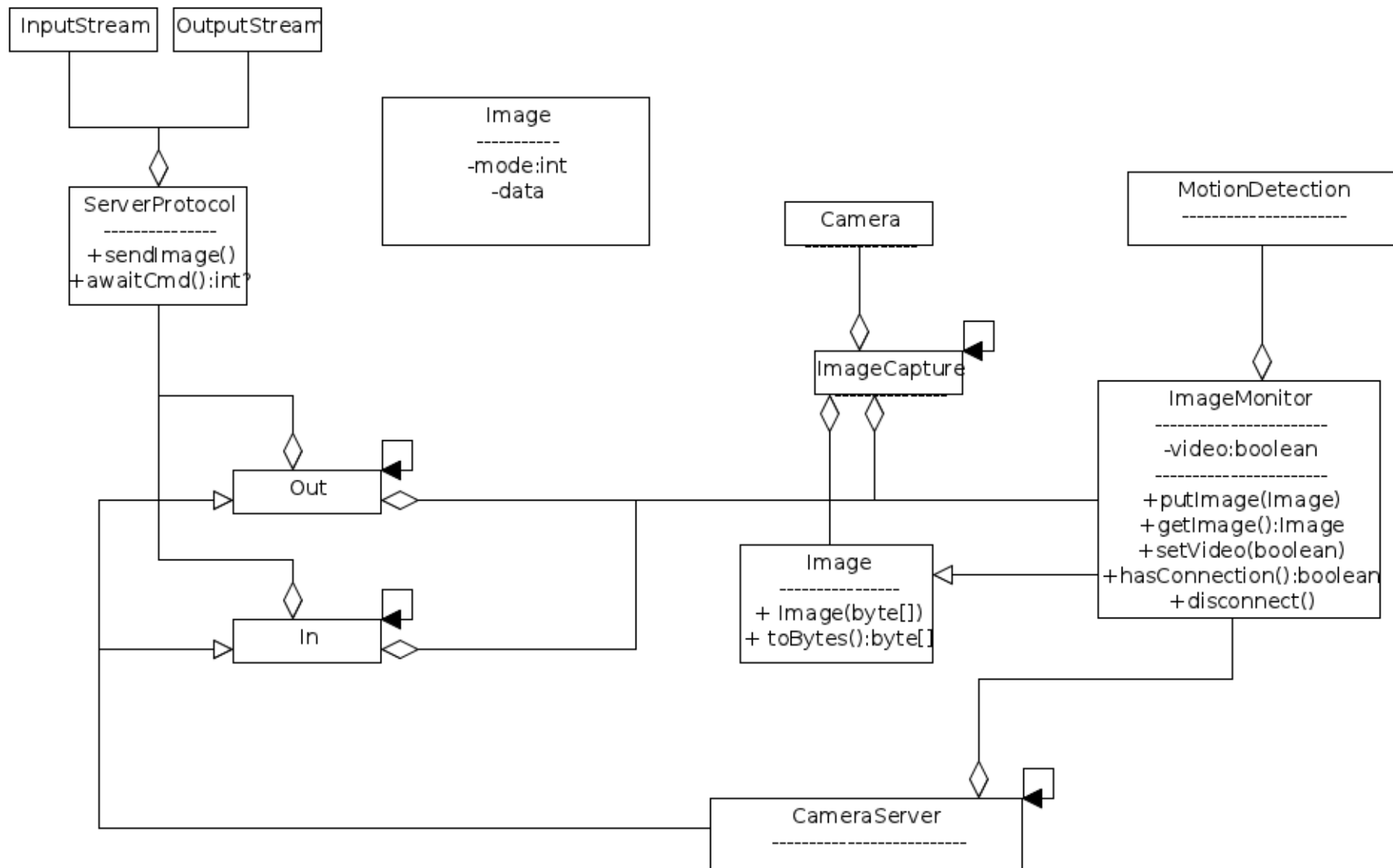
- Open Source

User Interface

Client Internals

Server has no UI

```java
1  import java.net.Socket;
2  import java.io.IOException;
3
4  public class Out extends Thread {
5
6      private ServerProtocol protocol;
7      private ImageMonitor monitor;
8
9      public Out(ServerProtocol protocol, ImageMonitor monitor) {
10         this.protocol = protocol;
11         this.monitor = monitor;
12     }
13
14     public void run() {
15         Image image = null;
16         while (!interrupted()) {
17             try {
18                 image = monitor.getImage();
19                 protocol.sendImage(image);
20             } catch (IOException e) {
21                 System.out.println("OUT: Lost connection.\nDisconnecting");
22                 monitor.disconnect();
23             } catch (InterruptedException ie) {
24                 System.out.println("OUT: Got interrupted.");
25             }
26         }
27         System.out.println("OUT: Done!");
28     }
29 }
```
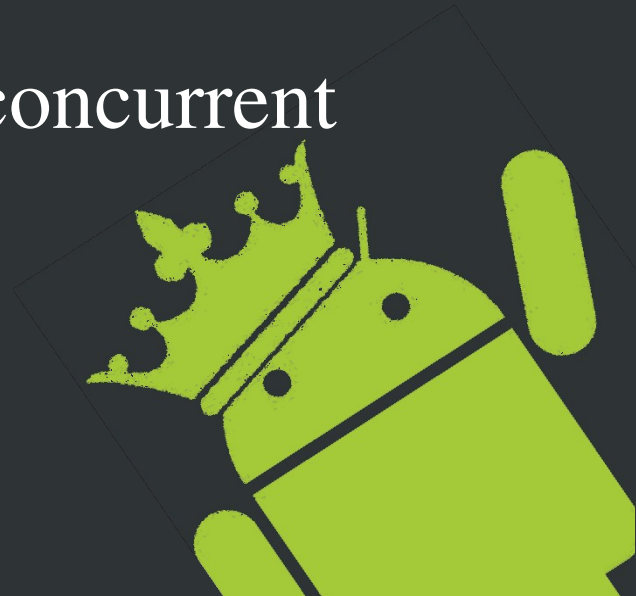
Server Internals

Oupps!

- Time coordination on server

- Server crash due to incorrect J2C compiler

- Very slow emulator

Our experiences

- Cross compilation might cause uexpected and undocumented problems.

- Java networking is very easy!

- Android development. API, tools.

- Git version control

- Rooted newly gained knowlegde in concurrent programming.

Git repo network graph