

Databases and Information Systems – Exercise Courses

Annotations on Debugging





Annotations on Debugging

Simple System.out.println()

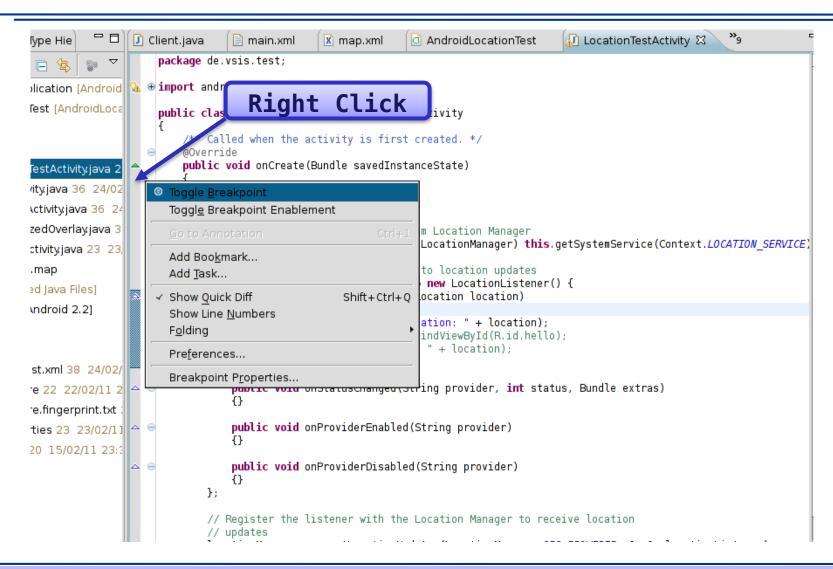
- Inserting print statements:
 int foo = getFancySensorValue();
 System.out.println("Sensor value is: "+foo);
- Time-consuming

The Eclipse Debugger

- Code remains unchanged
- Variable inspection
- Breakpoints

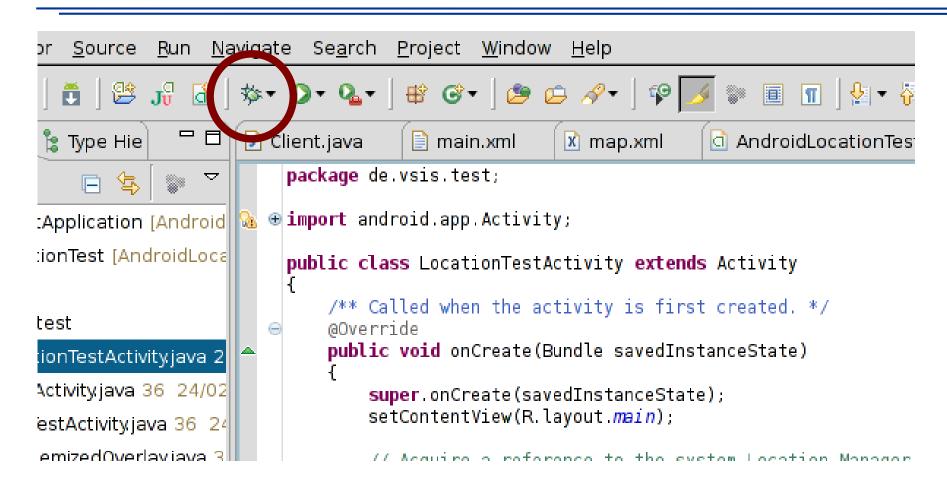


Setting Breakpoints





Starting the Debugger





Running the Debugger

```
HTTPURLConnection conn = (HTTPURLConnection)new URL("nttp://www.google.de/").c
conn.setRequestMethod("GET");
conn.setDoOutput(true);
conn.setDoInput(true);
conn.connect();

InputStream in = conn.getInputStream();
bl.setText(""+conn.getContentLength()+" @ "+conn.getContentType());

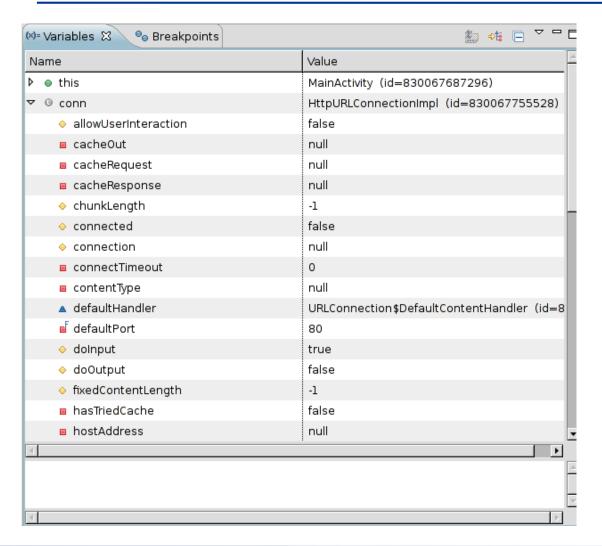
} catch (MalformedURLException e) {
e printStackTrace():
```

The debugger pauses the application at the breakpoint





Variable Inspection

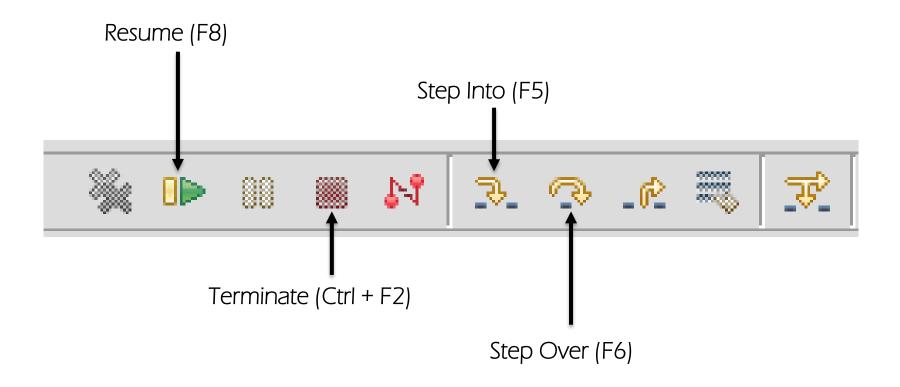


Variables can be inspected and further breakpoints can be set.





Stepping





Summary

- Very comfortable tool
- Provides good insights into run-time behaviour
- When a problem occurs:
 - 1. Debugging might reveal the cause or
 - 2. at least narrows down possible causes

Debugging is cool, no matter what the others say!



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