## DEBUGGING SUCKS

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## DISCLAIMER



Highly opiniated talk

Do NOT take it personally!

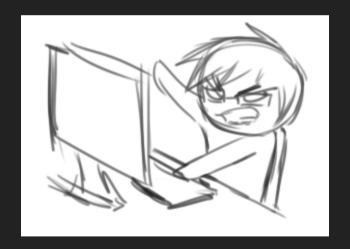
## WHATS THE PROBLEM

```
AstT0 astT0 = getAstDAO().getAstDetails("123456");
// Next line causes NPE
testBuyT0.setSalutation(astT0.getSalutation());
```

#### GOT IT?

## WTF?! APPROACH

LOGFILES SHOULD HELP...



Source wifflegif.com

No way this can go wrong!

## **ELLIOT SAYS**

Debugging's actually all about finding the bug. About understanding why the bug was there to begin with. About knowing that it's existence was no accident.

## DEBUGGER HELPS?

```
AstT0 astT0 = getAstDAO().getAstDetails("123456");

// astT0 == null
testBuyT0.setSalutation(astT0.getSalutation());
```

```
return jdbcTemplate.query(
    "select * from MASTERDATA where \"NUMBER\" = ?",
    new Object[] { theNumber },
    new ResultSetExtractor<AstTO>()
    {
        // Omit extraction ;)
    } );
```

#### **OBVIOUSLY NOT!**

## PRAGMATIC APPROACH

Take a deep breath and THINK! about what could be causing the bug.

getAstDAO().getAstDetails("123456");

```
return jdbcTemplate.query(
    "select * from MASTERDATA where \"NUMBER\" = ?",
    new Object[] { theNumber },
    new ResultSetExtractor<AstTO>()
    {
        // Omit extraction ;)
    } );
```

#### HERE WE GO...

## SOLUTION

```
AstTO astTO = getAstDAO().getAstDetails("123456");
if (astTO == null)
{
    Log.get().warn("Missing AstNo in Database: '123456'");
    astTO = getNewDummyAstTO();
}
```

# MISSING DATABASE ENTRY CAUSED THE BUG!





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