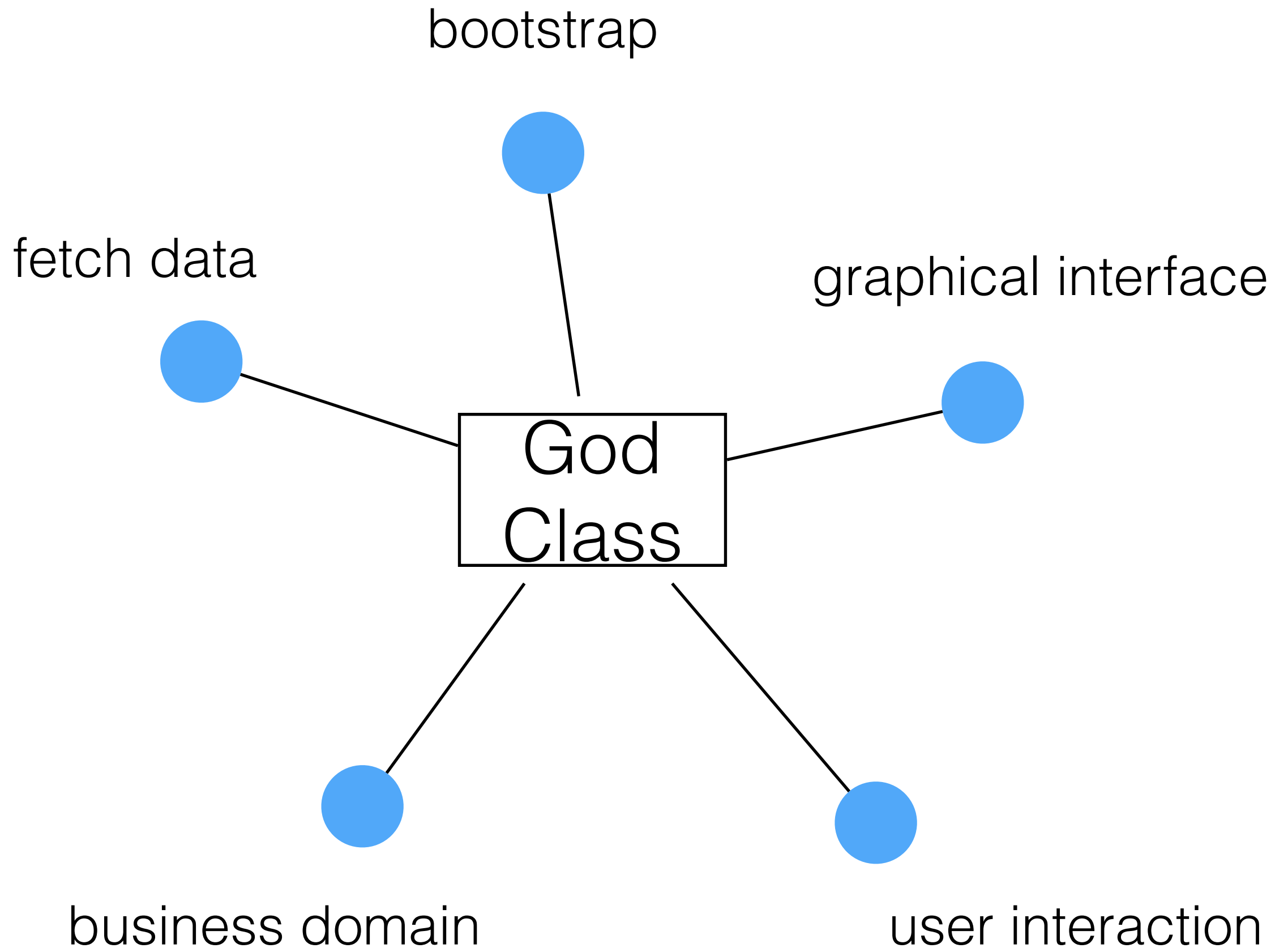


# MVC

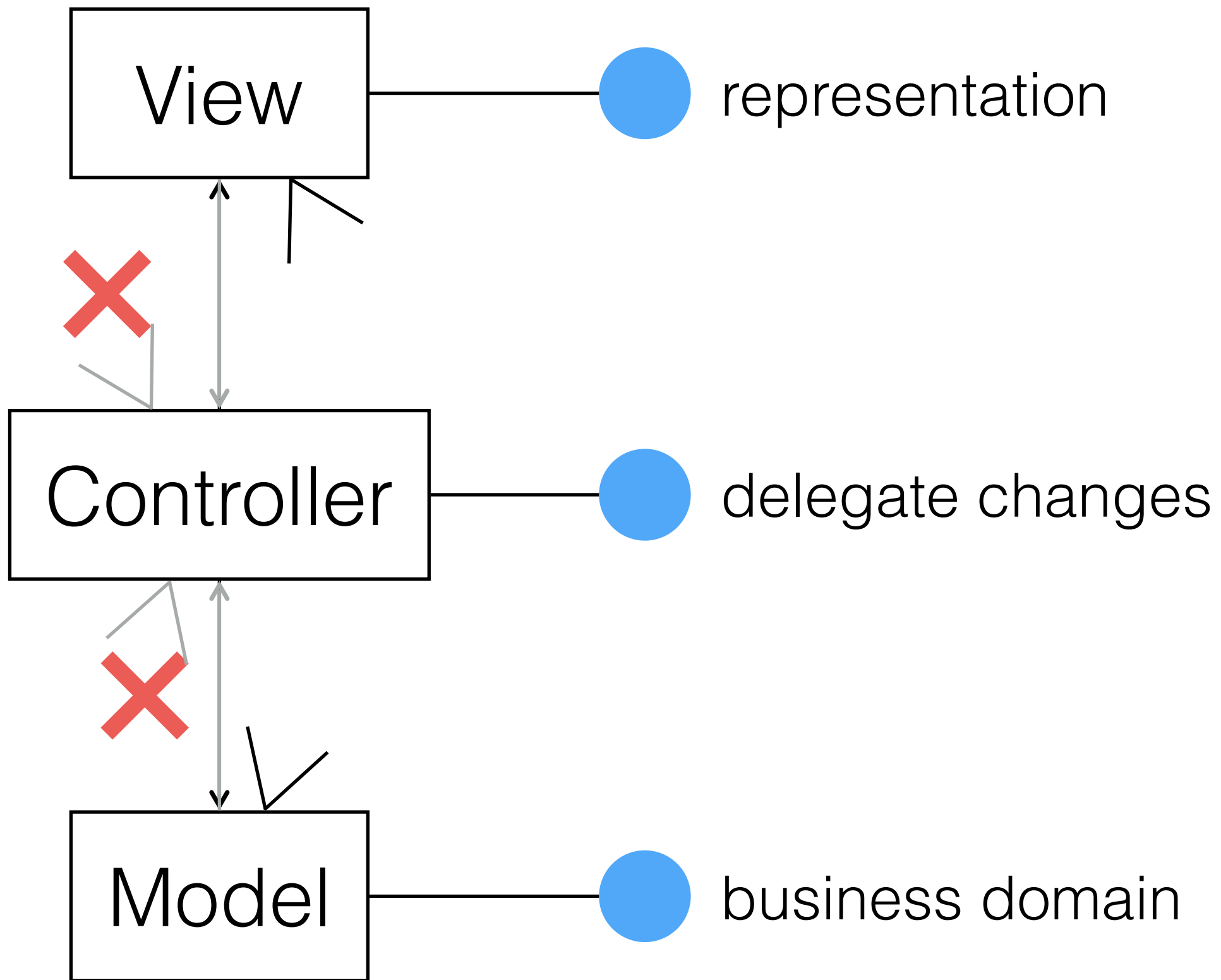
Supplementary presentation to exercises  
ESE 2017, University of Bern  
Slides by: Manuel Leuenberger



**Architecture**  
to the rescue!

manage complexity  
enable reuse

Model  
View  
Controller



# Spring MVC

„automagically“

# Request lifecycle summary

- user navigates to URL
- request is mapped to **controller** method
- **controller** loads **model** by id
- **controller** pipes model data into **view**
- user gets rendered **view** as response



# Tip

- become fluent in the web **vocabulary**
- understand concepts of used **technologies**
- HTTP: request & response, headers, body, method, status
- URL: host, path, query, hash, URL-encoding
- HTML: element, attribute, form-control
- CSS: selector, property, position, display
- JS: jQuery, JSON, DOM
- Documentation: [stackoverflow](#), [JavaDoc](#), [Guides](#)

# Summary

- **m**odel, **v**iew, **c**ontroller
- architectural pattern, not a design pattern
- divide & conquer
  - **model** is business domain: state & behaviour
  - **view** represents **model**
  - **controller** delegates changes between **model** and **view**
- responsibilities are clearly defined without overlapping