

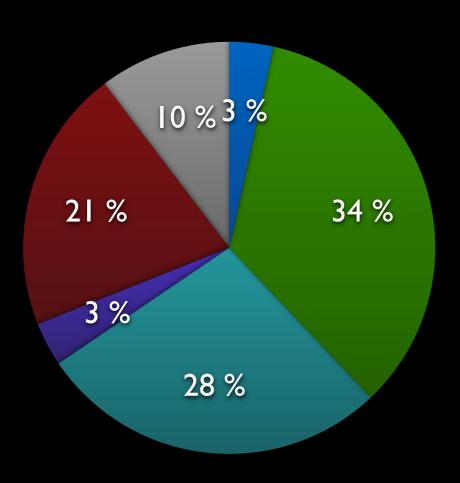
what is it?

what is it?

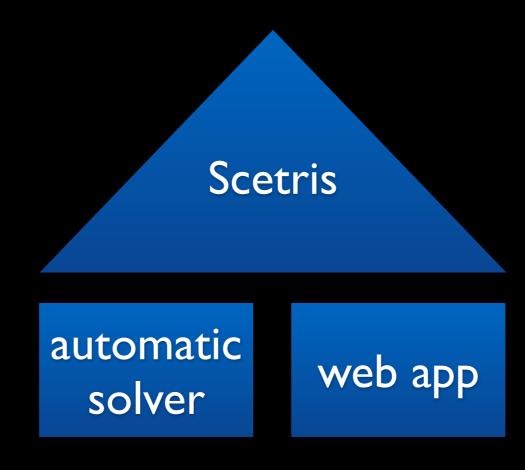
- A Team: André, David, Hagen, Julian, Konrad
- A Contest: S.C.O.R.E. myCourses
- A Software-Project: Scetris
- Some by products:
 - junction / bakery / weave / lego

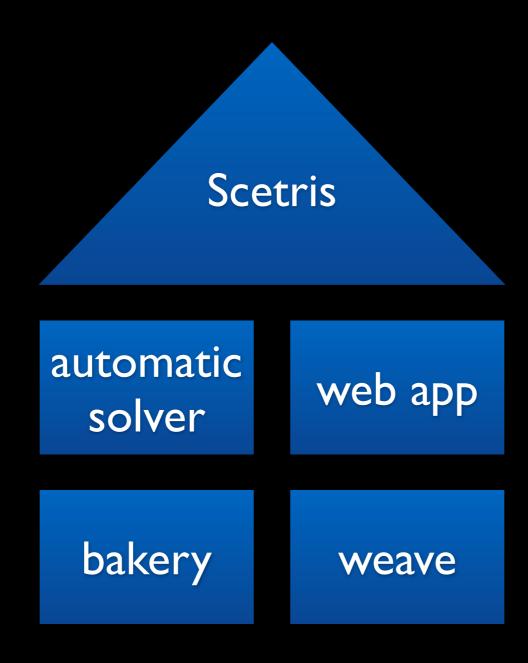
questionable facts

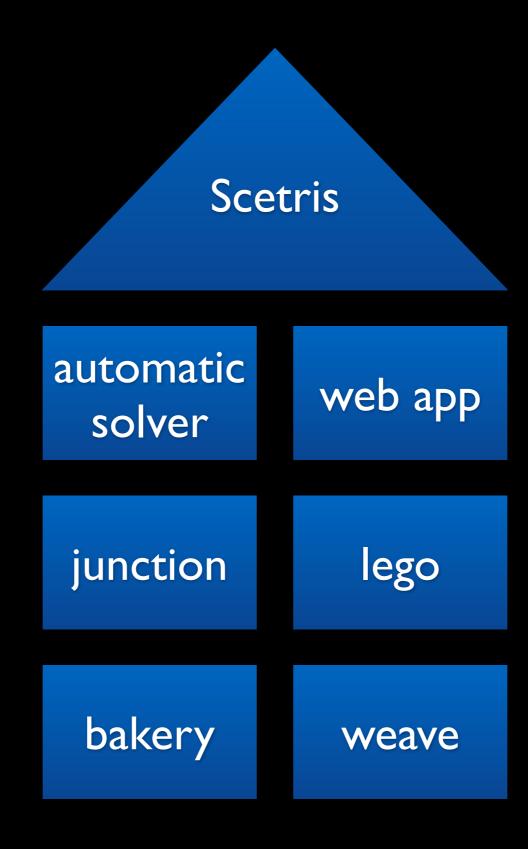
questionable facts



- XML
- Java (auto generated)
- Java
- AspectJ
- XSL (view)
- XSL (bakery)









Genetic Course Scheduling

automatic solver

web app

Utilities

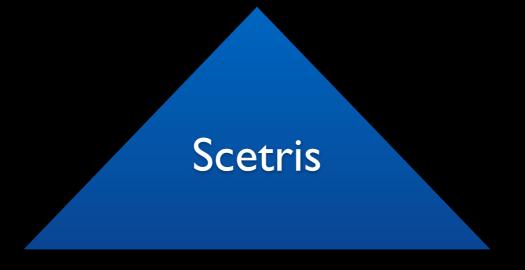
junction

lego

Auto-generated Active Record

bakery

weave



Genetic Course Scheduling

automatic solver

web app

Model

Utilities

junction

lego

View

Auto-generated Active Record

bakery

weave

Controller



Genetic Course Scheduling

automatic solver

web app

junction

lego

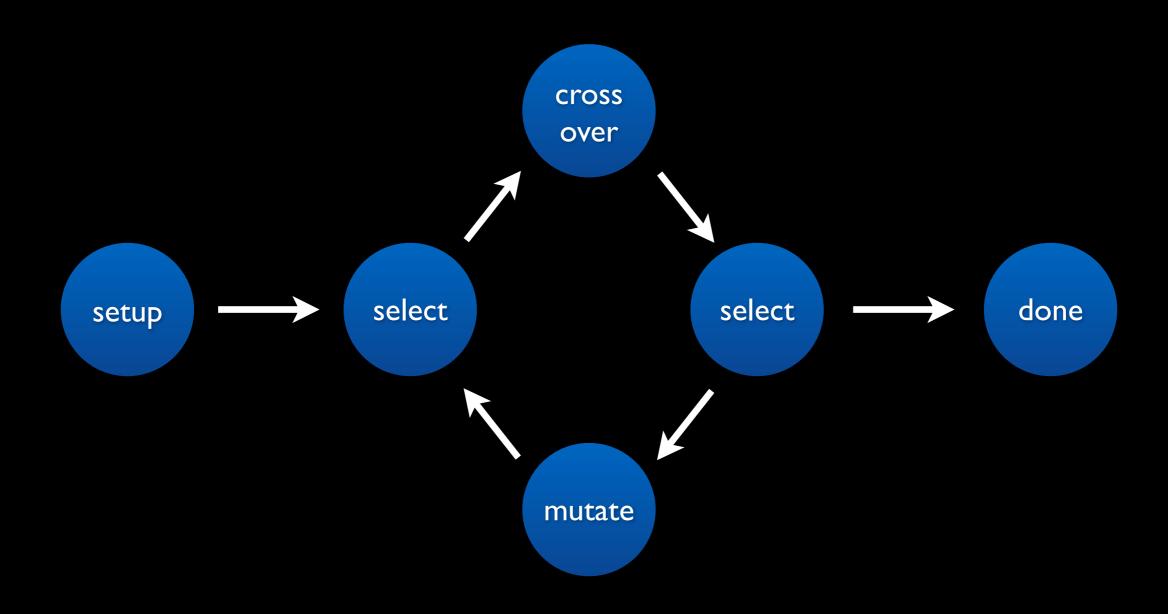
bakery

weave

auto-solver

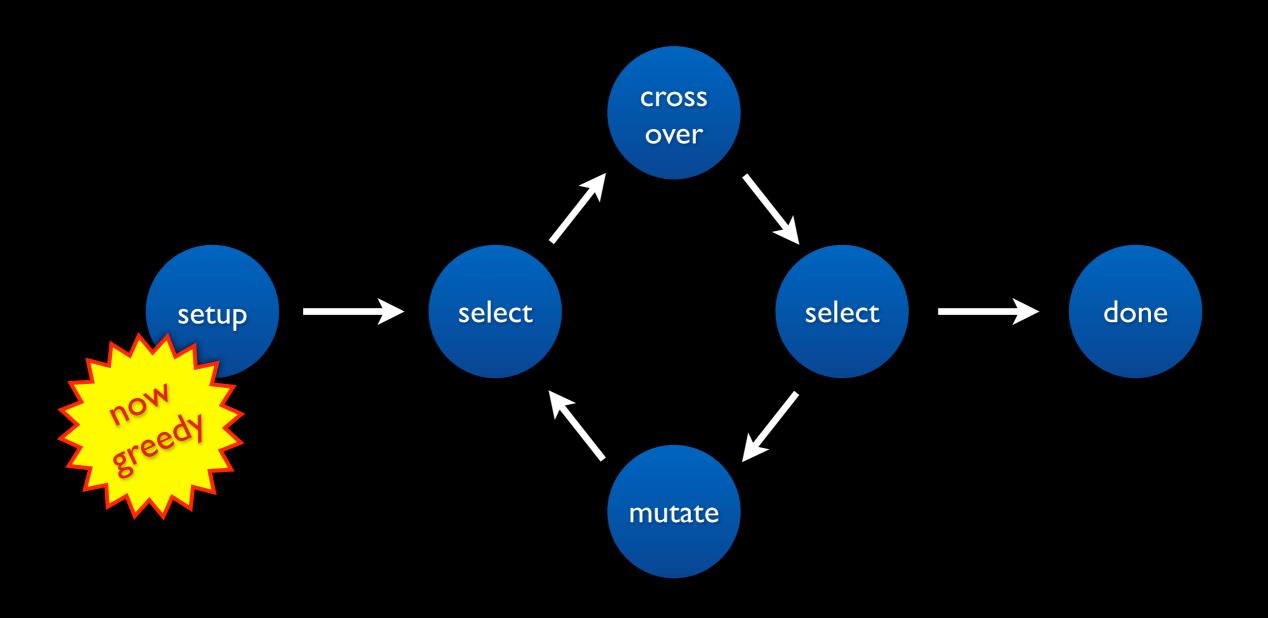
auto-solver

Course Scheduling using a genetic algorithm

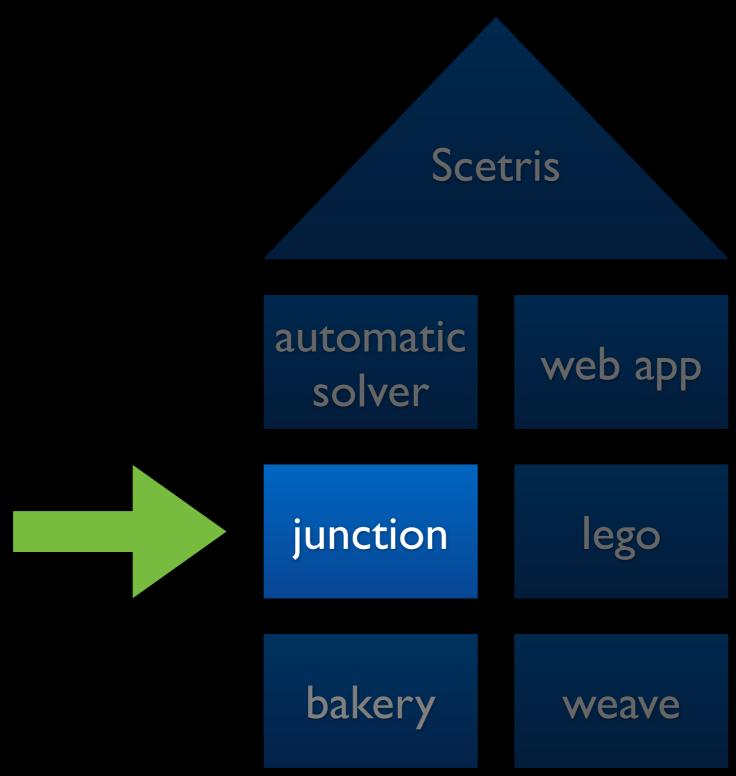


auto-solver

Course Scheduling using a genetic algorithm



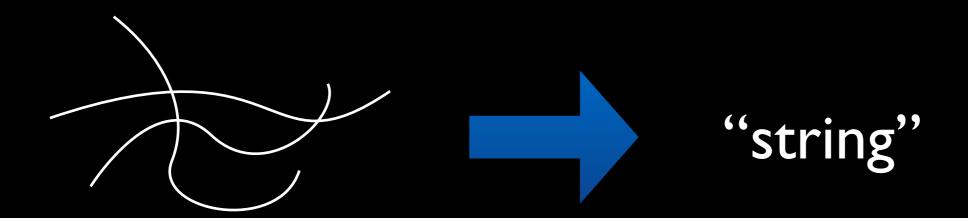
Scetris automatic web app solver junction lego bakery weave



Montag, 6. Dezember 2010 (KW)

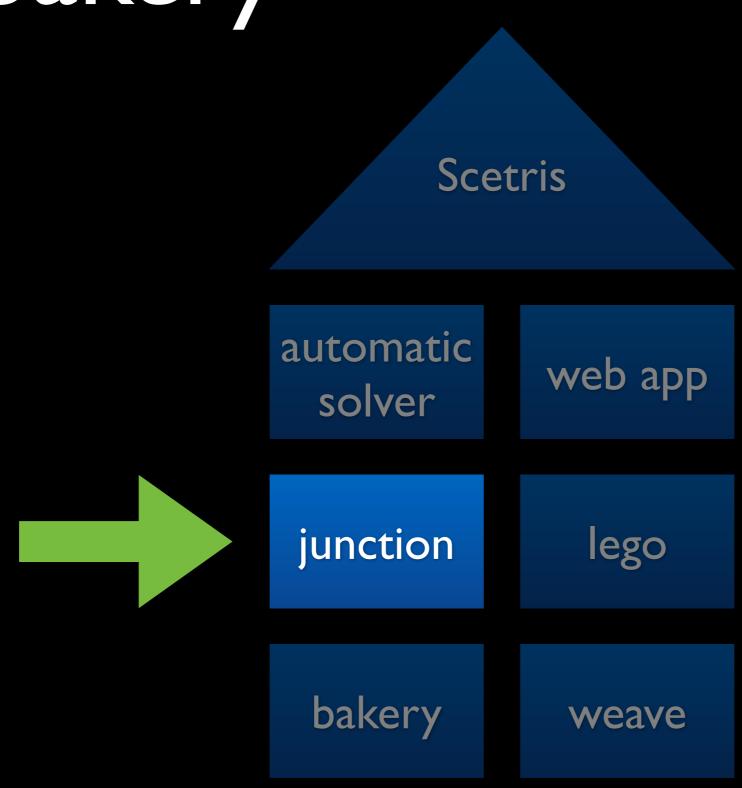
13

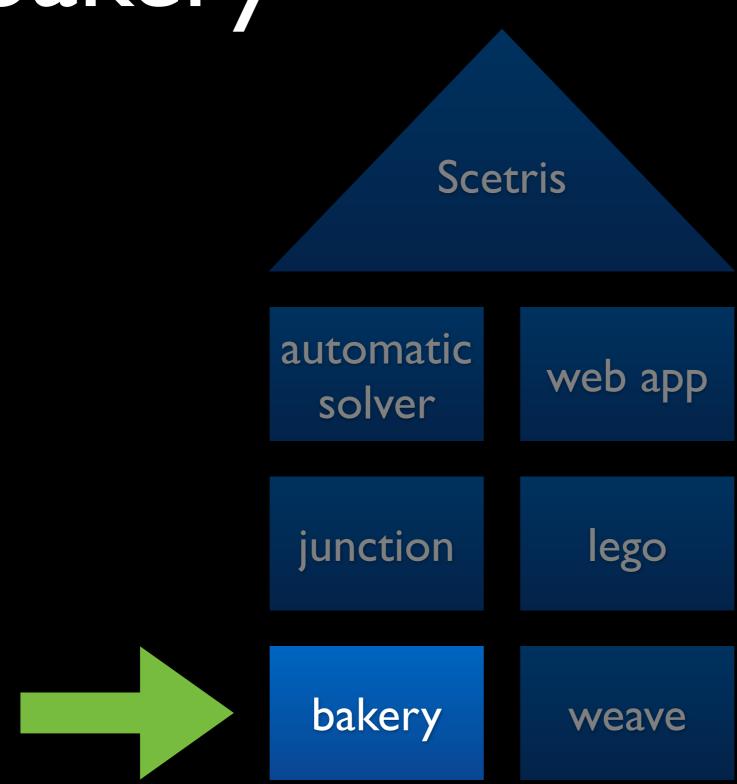
"Java functions you missed"

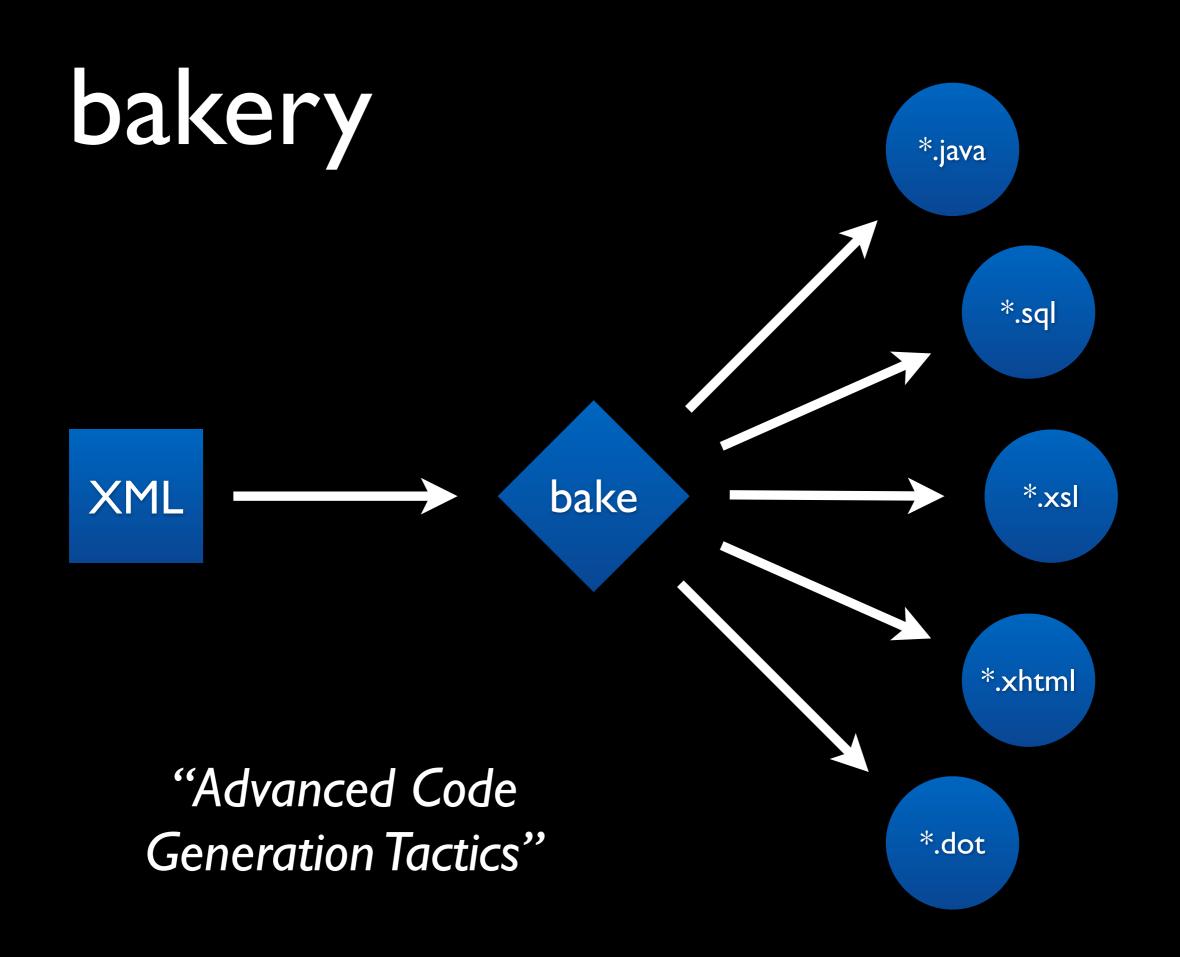


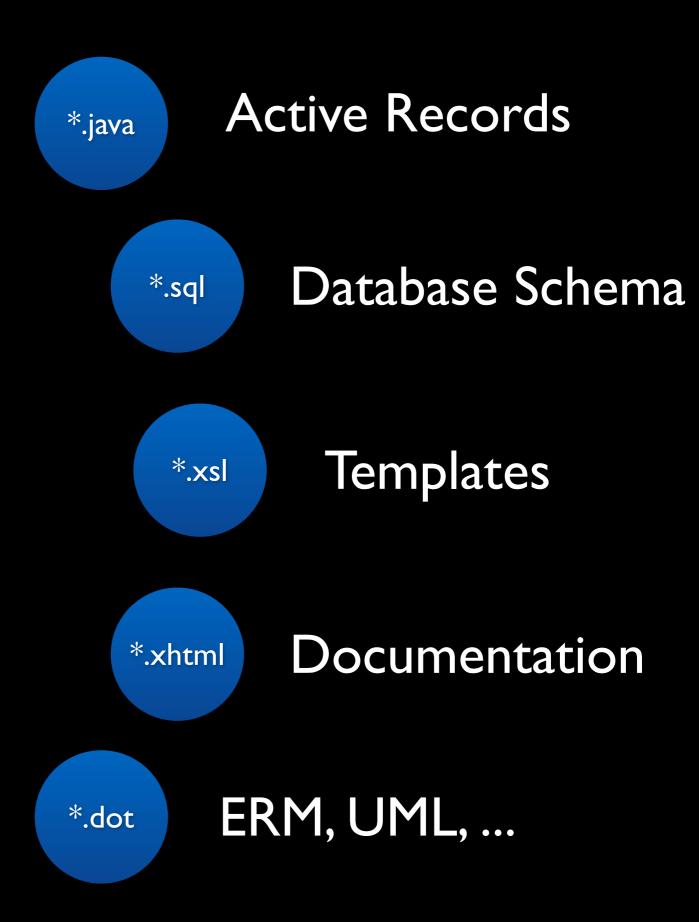
Methods to ease your life in Java:

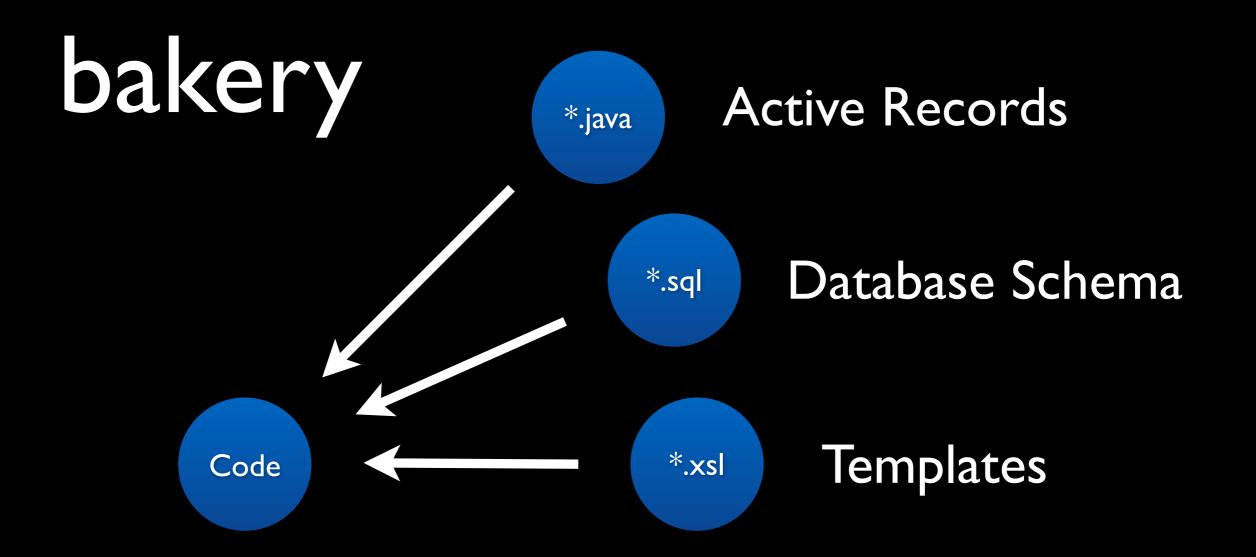
implode(...)
map(...)
filter(...)

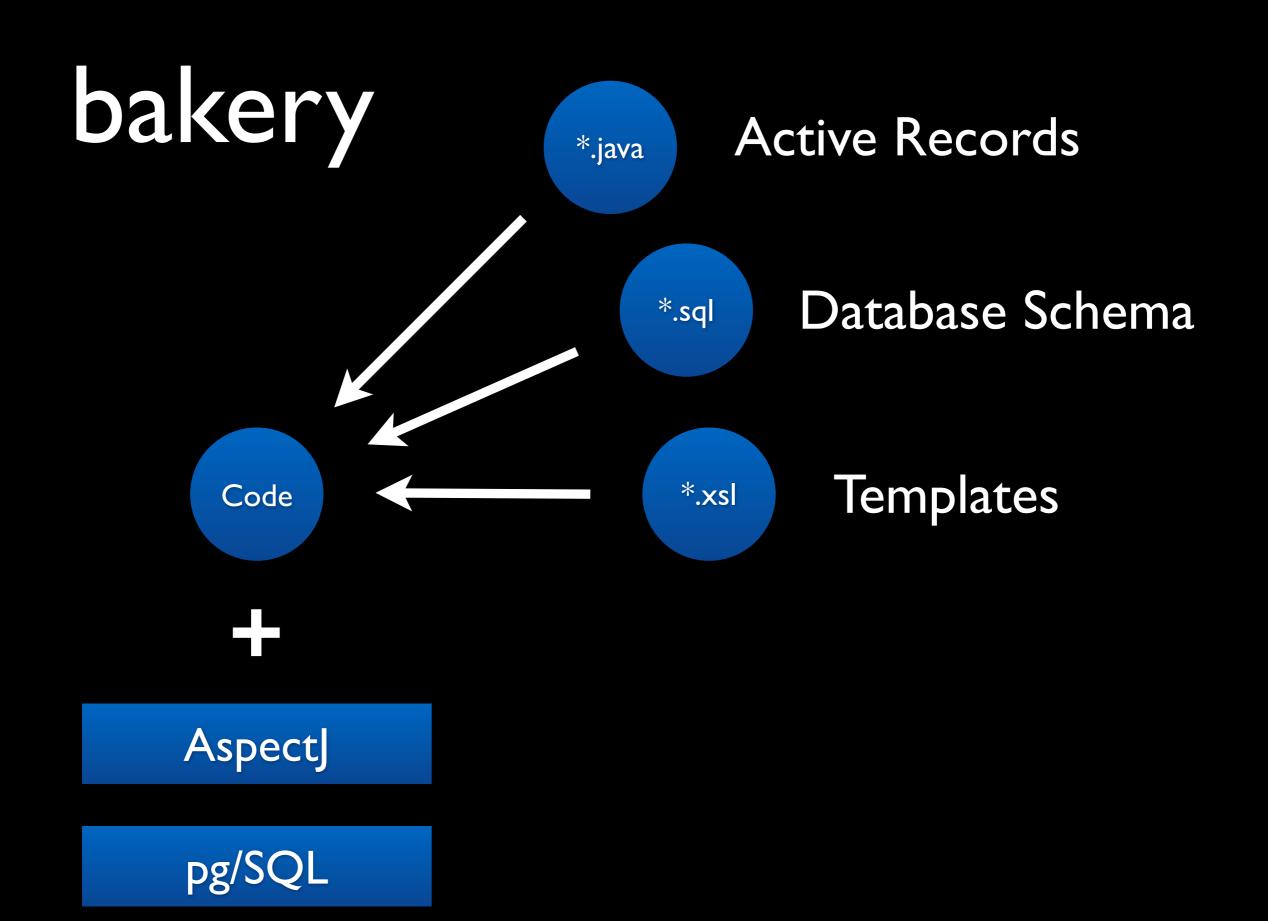


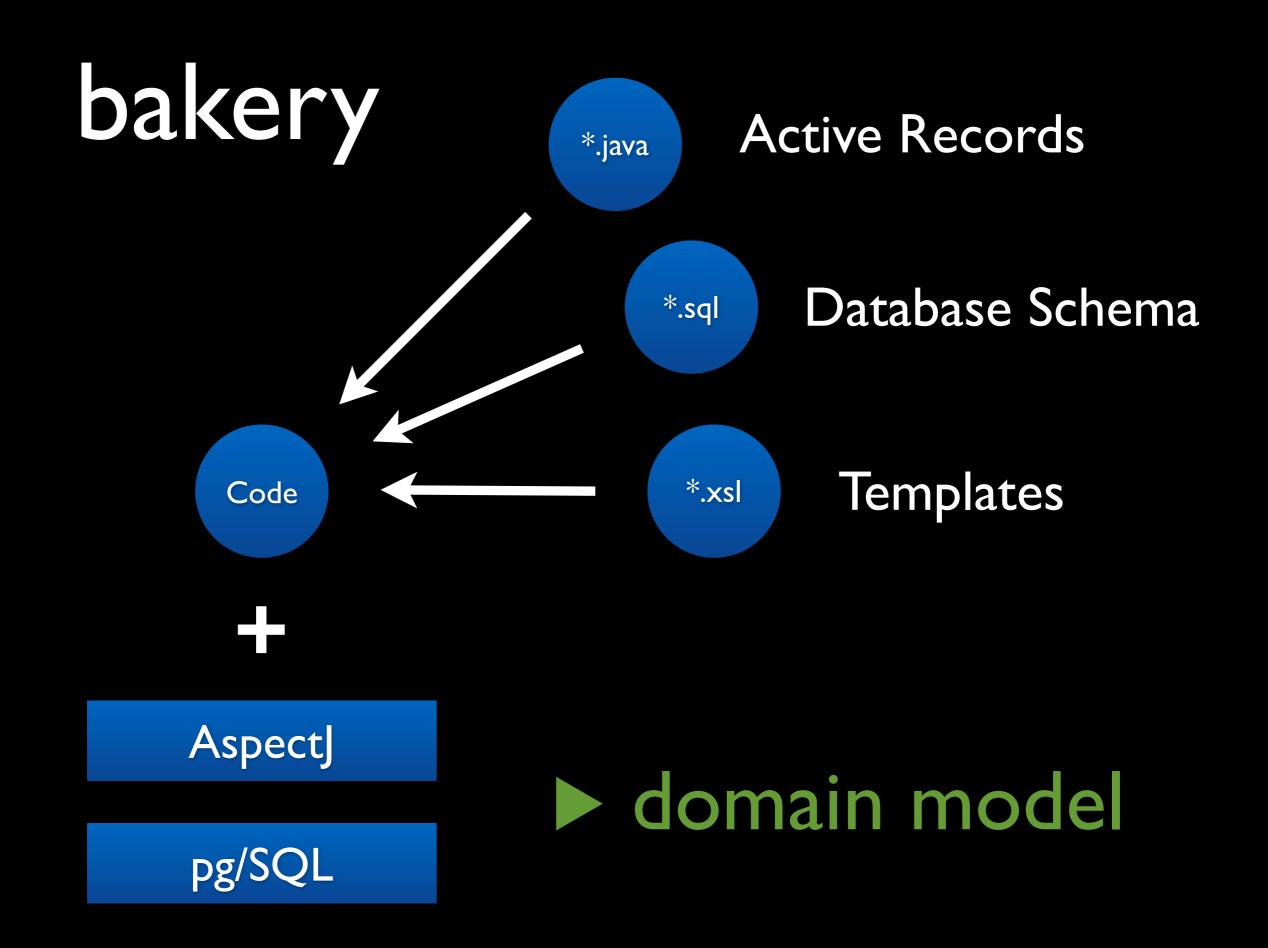


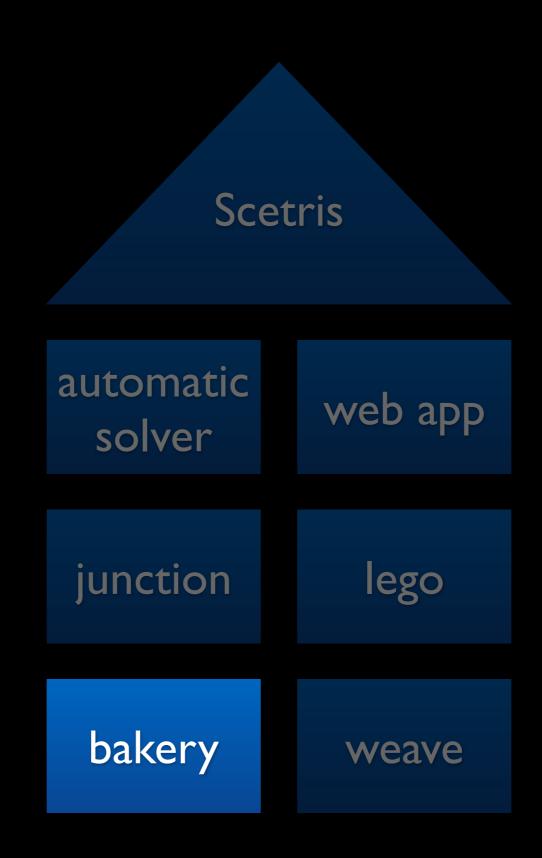


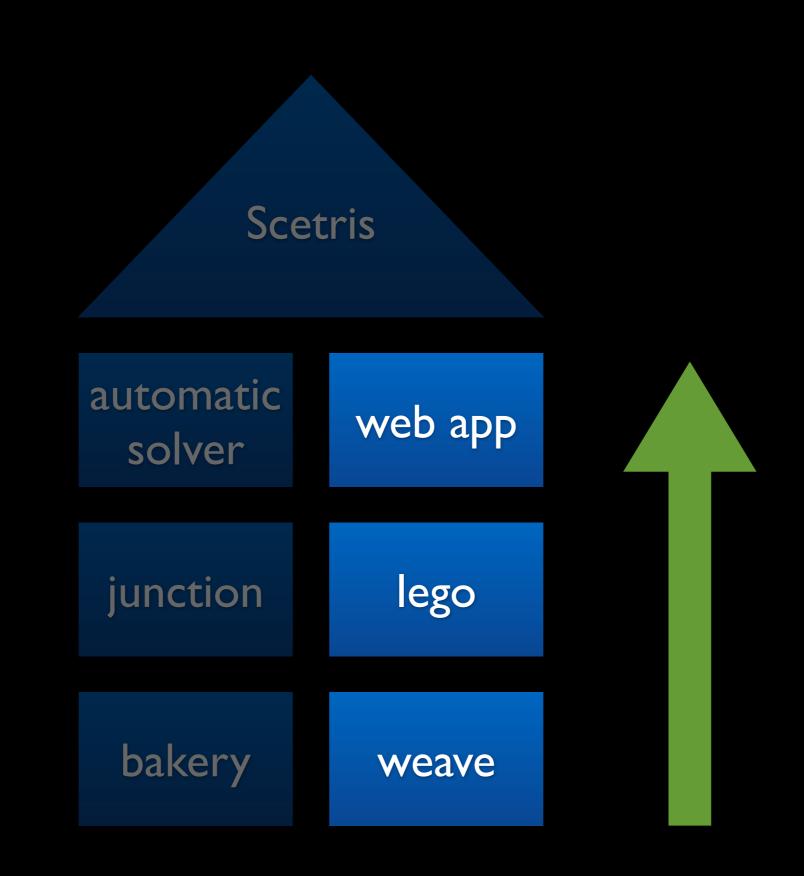










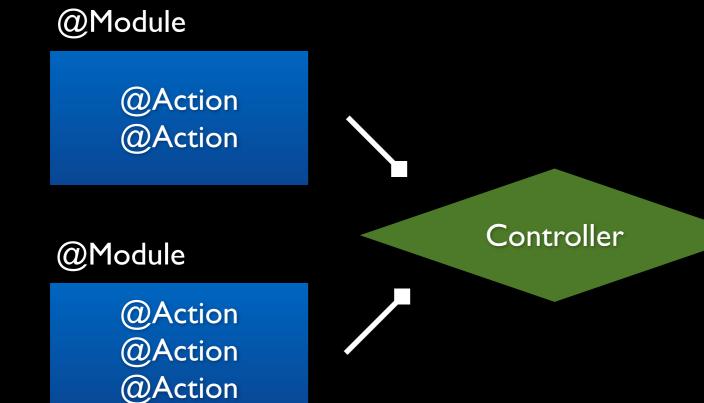


weave

weave

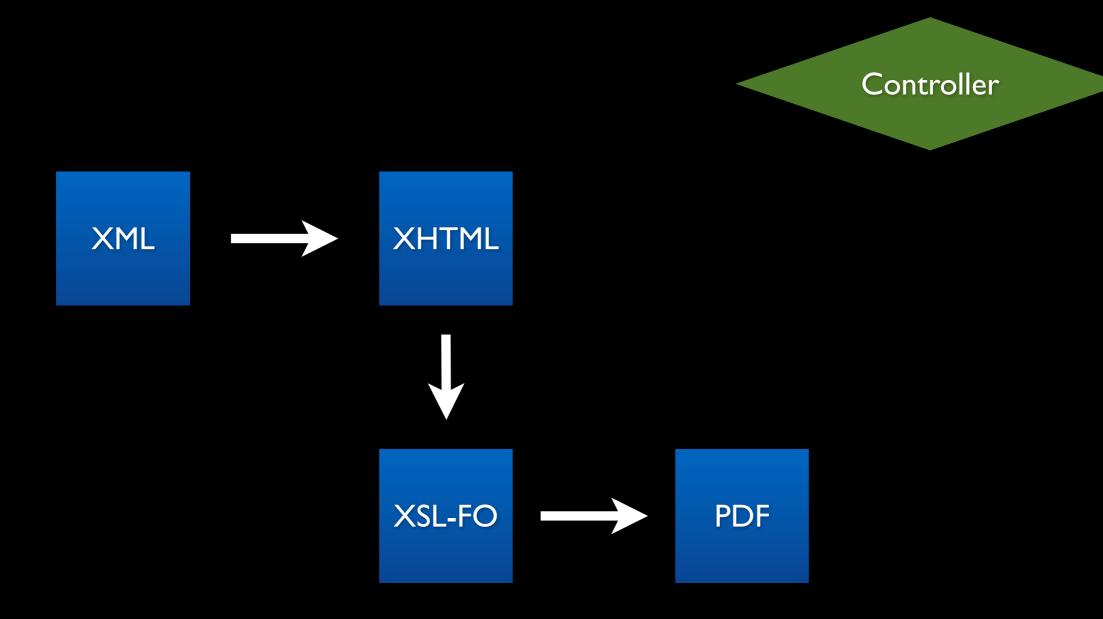
@nnotation based web-framework

- Permission checking
 - Output handling
 - Control flow



weave

XML-Pipelines



lego

lego

Template "bricks"



jQuery UI



scetris

scetris

- More modules
- PDF-Output
- XML-Export via web

demo

goals

goals

- Better user-interface
- faster scheduling

= polish!

This week

- Release of junction.jar
- Public testing site <u>http://score.imp.fu-berlin.de/bleeding-edge</u>
- Public bug-tracker
 https://dev.spline.de/trac/project-scetris

slides @ risk

"Java functions you missed"

```
Callable pow = callback(Math.class, "pow");

Number[] xs = new Number[] { 1, 2.3, 7, -3};

List<Double> sq = new ArrayList<Double>(xs.length);

map( pow, filter( gt(0), xs ), sq, 0.5 );
```

Montag, 6. Dezember 2010 (KW)

System.out.println(implode(", ", sq));

Aspect J Java EE 6 Apache Ant XSL-T

Cobertura JUnit Apache FOP XSL-FO

jQuery Jetty Apache Tomcat XML

weave + bakery

```
public void listUsers(String[] path,
  \bigcircArg(name = "page", intDefault = 0)
 final int pageNumber,
  \bigcircArg(name = "limit", intDefault = 50)
 final int itemsPerPage) {
 put("entries", relationManager.getUser(
   pageNumber * itemsPerPage, itemsPerPage
```