Scetris

Iteration 2

Was haben wir gemacht?

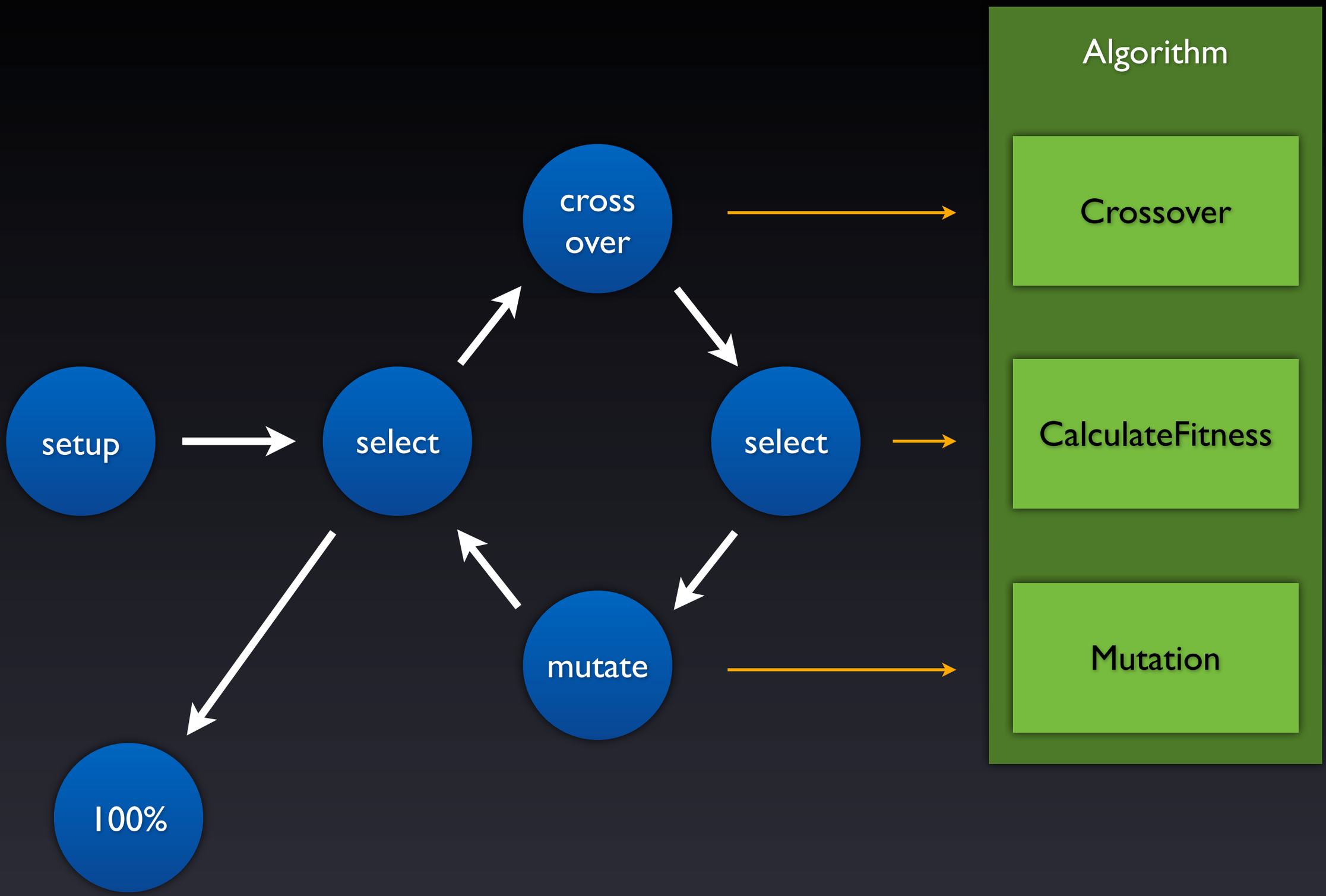
- Build-Prozess optimiert
- eigenes Object-Relation-Mapping
- eigenes Webframework
- Scheduler implementiert

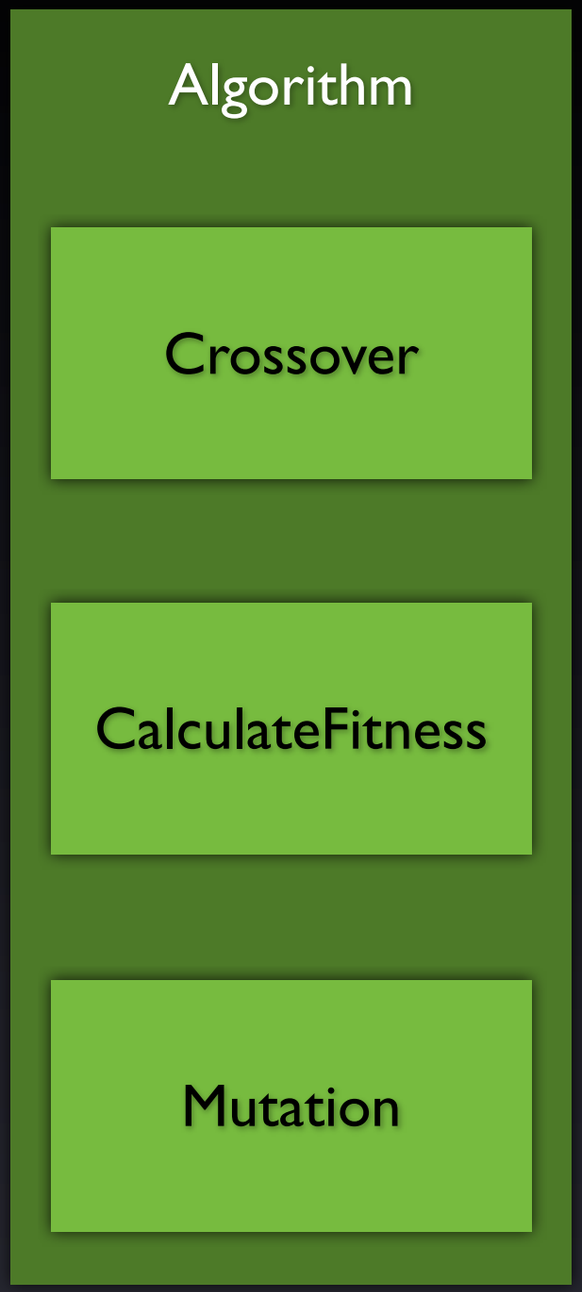
questionable facts

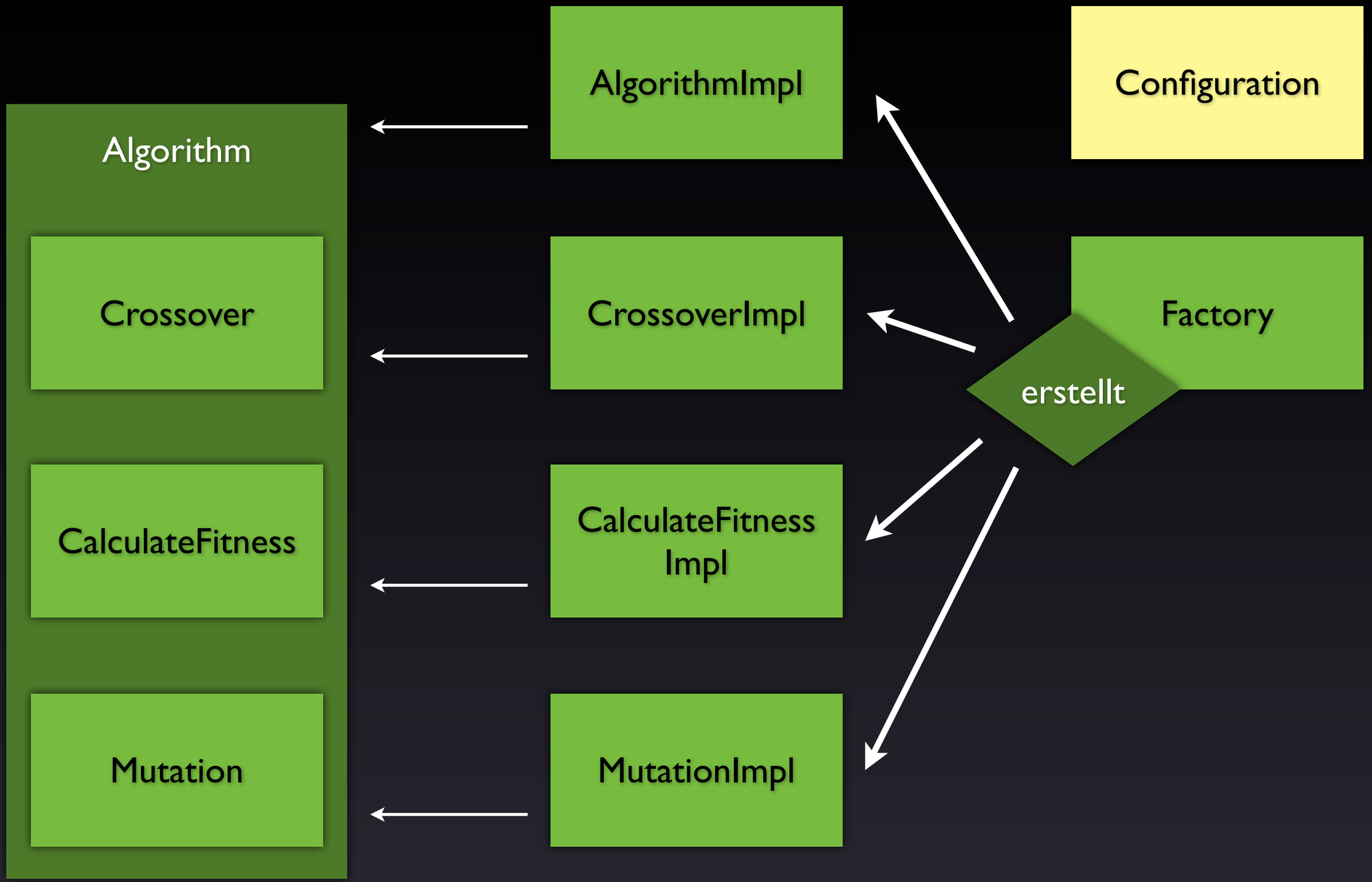
- 36158 lines of code
  - 15259 auto generated (~42%)
- 653 SVN Revisions

scheduler

scheduler


cross over
setup
select
select
mutate
100%
Algorithm
Crossover
CalculateFitness
Mutation


Algorithm
Crossover
CalculateFitness
Mutation


Algorithm
Crossover
CalculateFitness
Mutation
AlgorithmImpl
CrossoverImpl
CalculateFitness Impl
MutationImpl
Configuration
Factory
erstellt

Testlauf

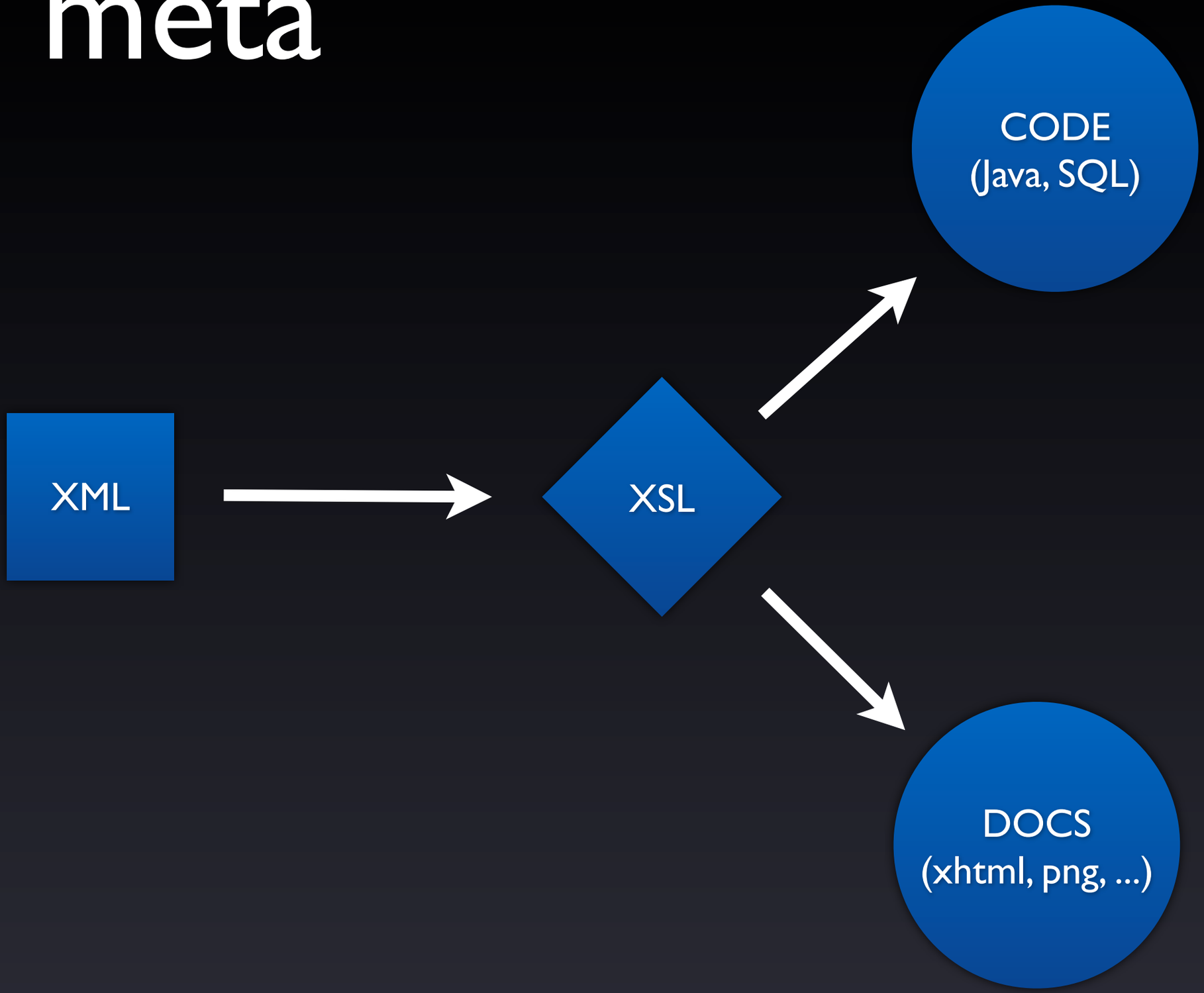
Scetris

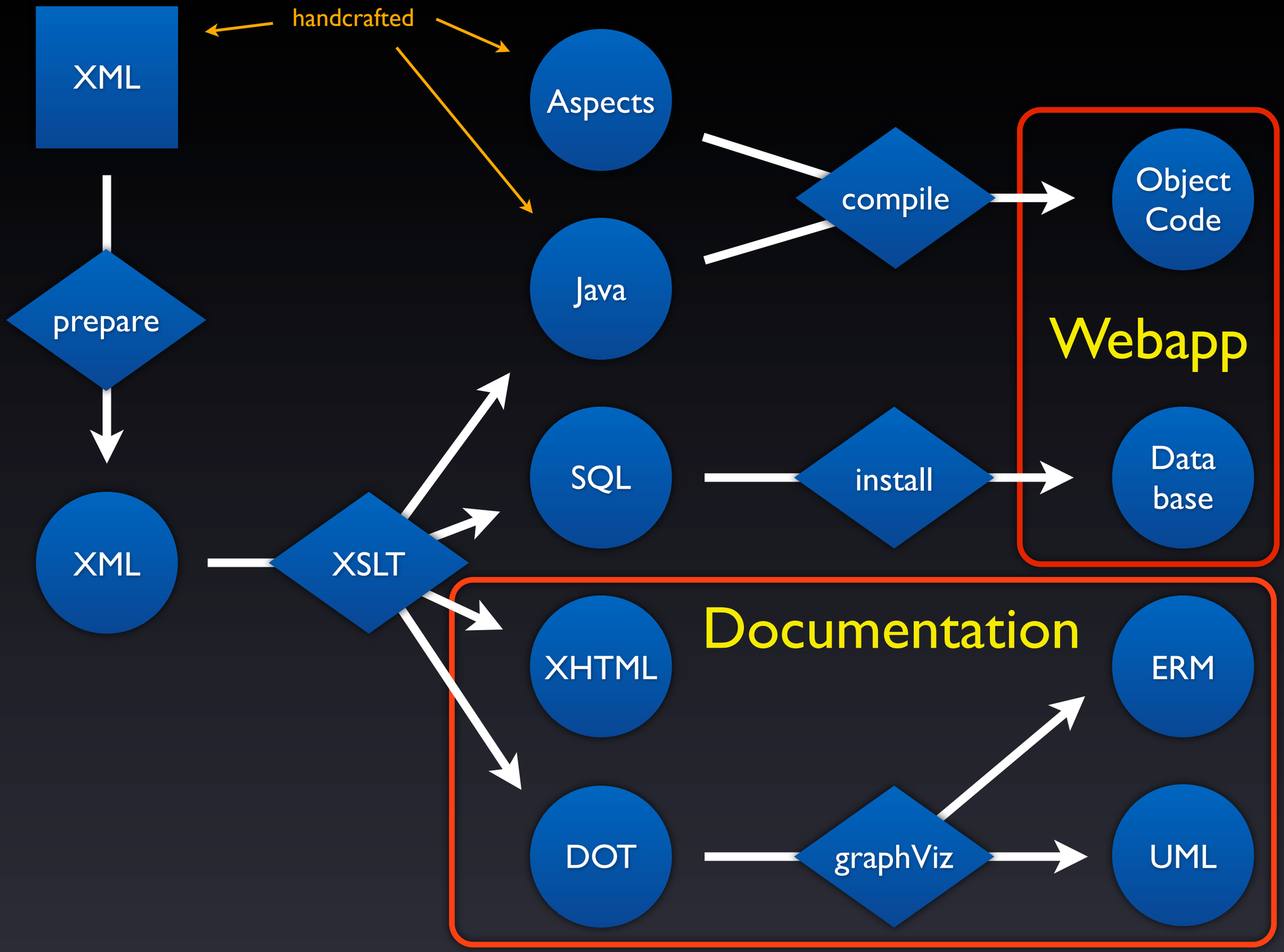
meta

weave

meta

meta

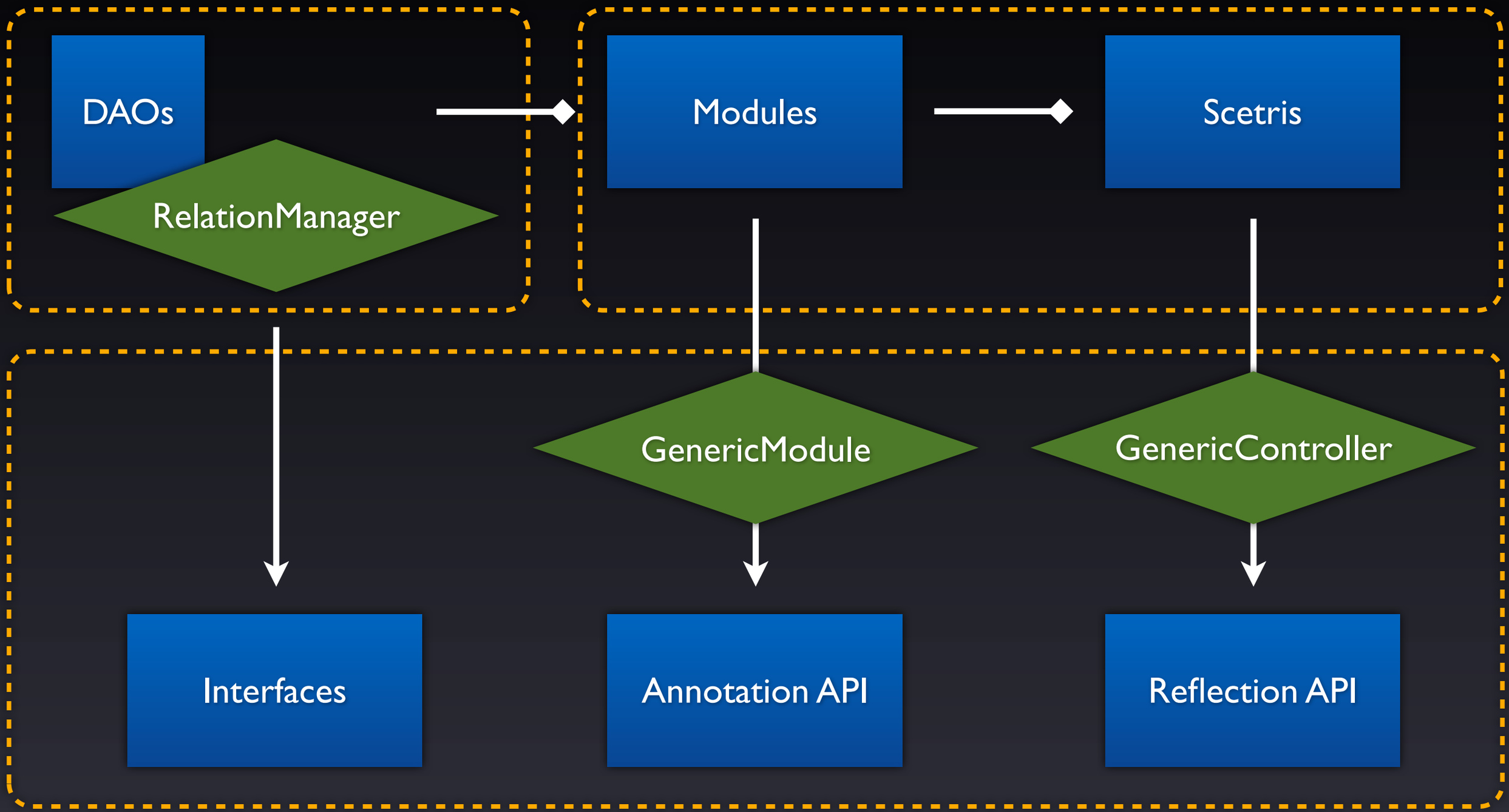



XML
handcrafted
Aspects
Java
compile
Object Code
Webapp
prepare
SQL
install
Data base
XML
XSLT
Documentation
XHTML
ERM
DOT
graphViz
UML

<APACHE ANT>

weave

weave


DAOs
RelationManager
Modules
Scetris
GenericModule
GenericController
Interfaces
Annotation API
Reflection API

@ModuleInfo

```
@ModuleInfo (
  name = “users”,
  author = “J. Random Hacker”,
  requires = {
    Requirement.LOGGED_IN,
    Requirement.DATABASE
  }
)
class UserManager { /* ... */ }
```

@Action

```
class UserManager {
  @Action (
    name = “list”,
    template = “users.list.xsl”,
    requiresPermission = “users:list”
  )
  public void listUsers(String[] path) { }
}
```

@Arg

```
public void listUsers(String[] path,
    @Arg(name = "page", intDefault = 0)
    final int pageNumber,
    @Arg(name = "limit", intDefault = 50)
    final int itemsPerPage) {
    /* ... */
}
```

...viele weitere

- @Action
- @Commit

➤ MVC

- @XmlAttribute
- @XmlElement
- @XmlCollection
- @XmlRef

➤ XML Mapping

ORM + Templates

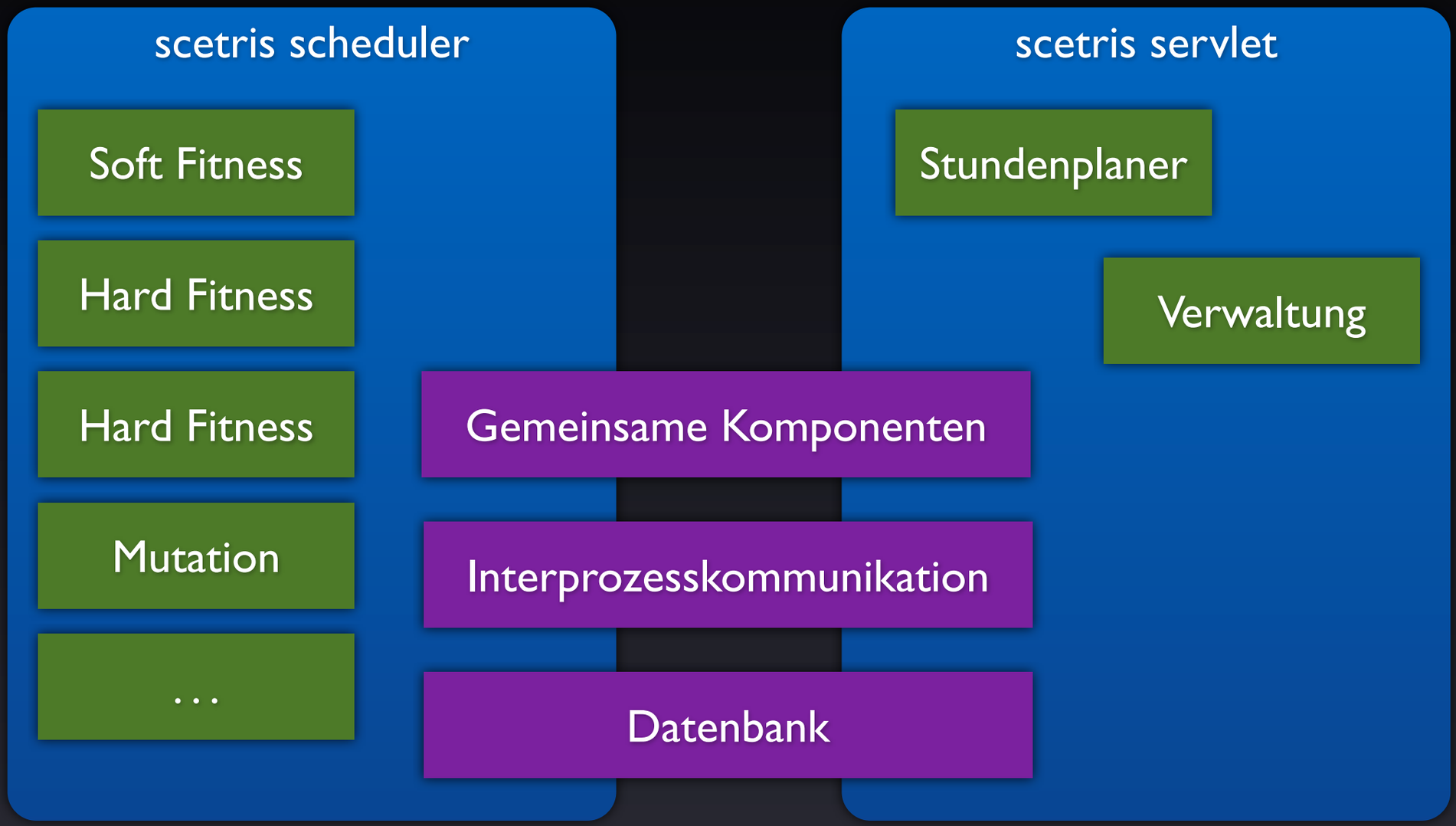
```
public void listUsers(String[] path,
    @Arg(name = "page", intDefault = 0)
    final int pageNumber,
    @Arg(name = "limit", intDefault = 50)
    final int itemsPerPage) {

    put("entries", relationManager.getGuestBookEntry(
        pageNumber * itemsPerPage, itemsPerPage
    );
}
```

Vorführung

Iteration 3

Iteration 3


scetris scheduler
Soft Fitness
Hard Fitness
Hard Fitness
Mutation
...
Gemeinsame Komponenten
Interprozesskommunikation
Datenbank
scetris servlet
Stundenplaner
Verwaltung

Iteration 3

- Scheduler integrieren
  - eigenständiger Prozess (Service?)
- Import/Export über Webapp
- Testdatengenerator
  - zur Feinabstimmung des Algorithmus'
- polish, polish, polish