seaside

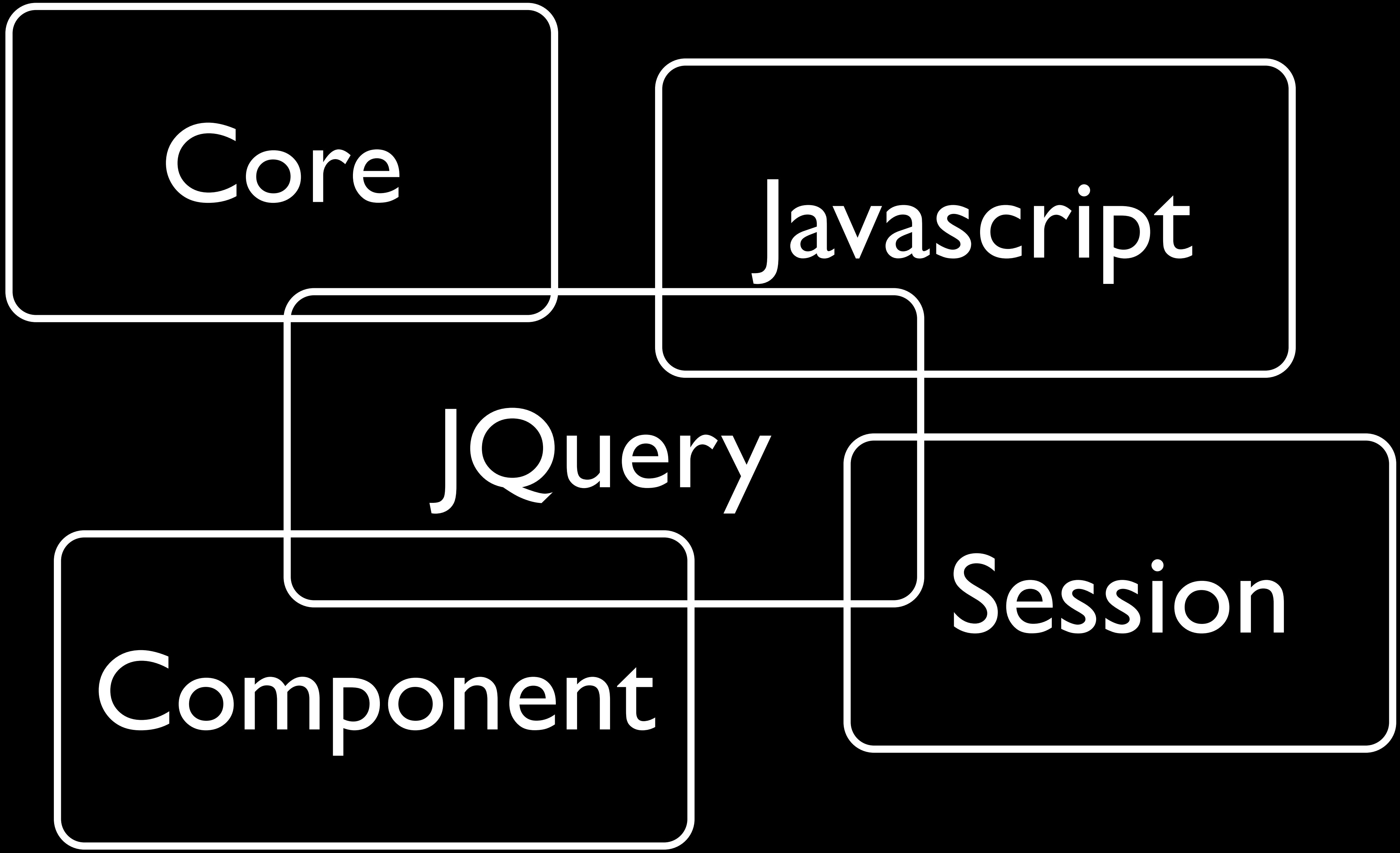
Advanced

ESUG 2012 Ghent
Aug 30, 2012

Seaside 2.x

Seaside

Seaside 3.x



Core

Javascript

JQuery

Session

Component

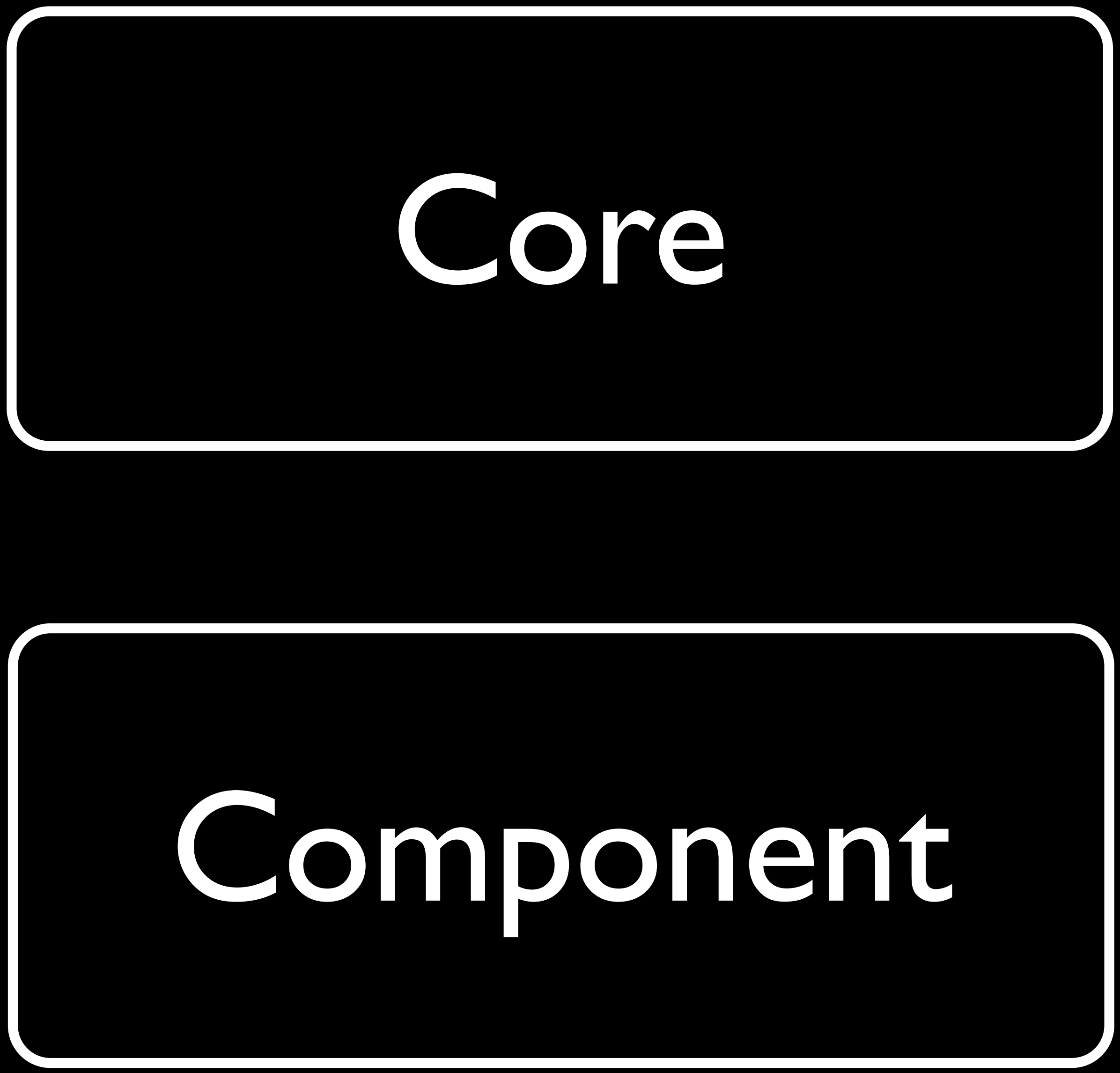
What is Seaside-Core

- “Seaside Meta”
- Web Framework Framework
- HTTP Abstraction
- Servlet API
- Rack
- WSGI

Why Seaside-Core

- portable (dialect and server)
- battle tested
- objects, not strings
- familiar objects
- negligible overhead

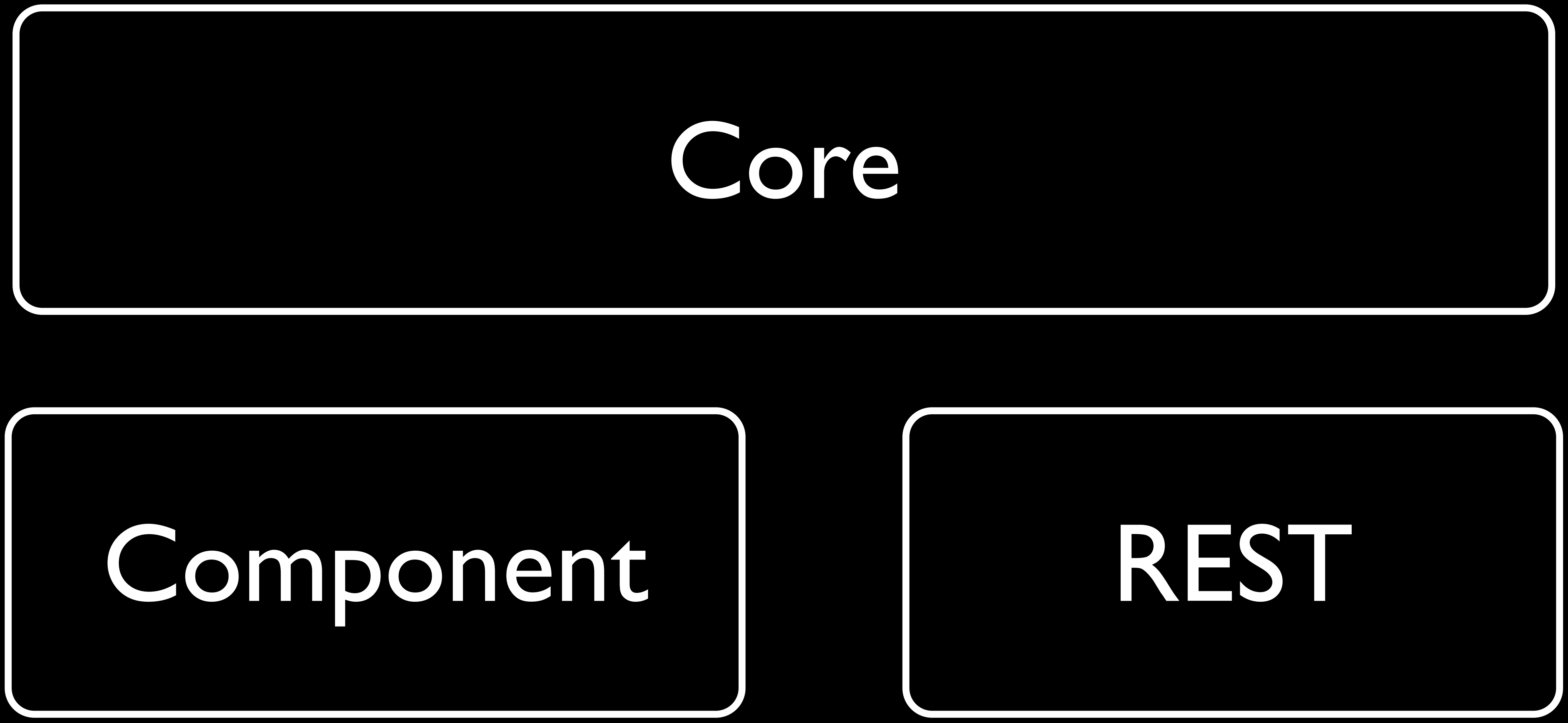
Seaside 3.x



Core

Component

Seaside 3.x

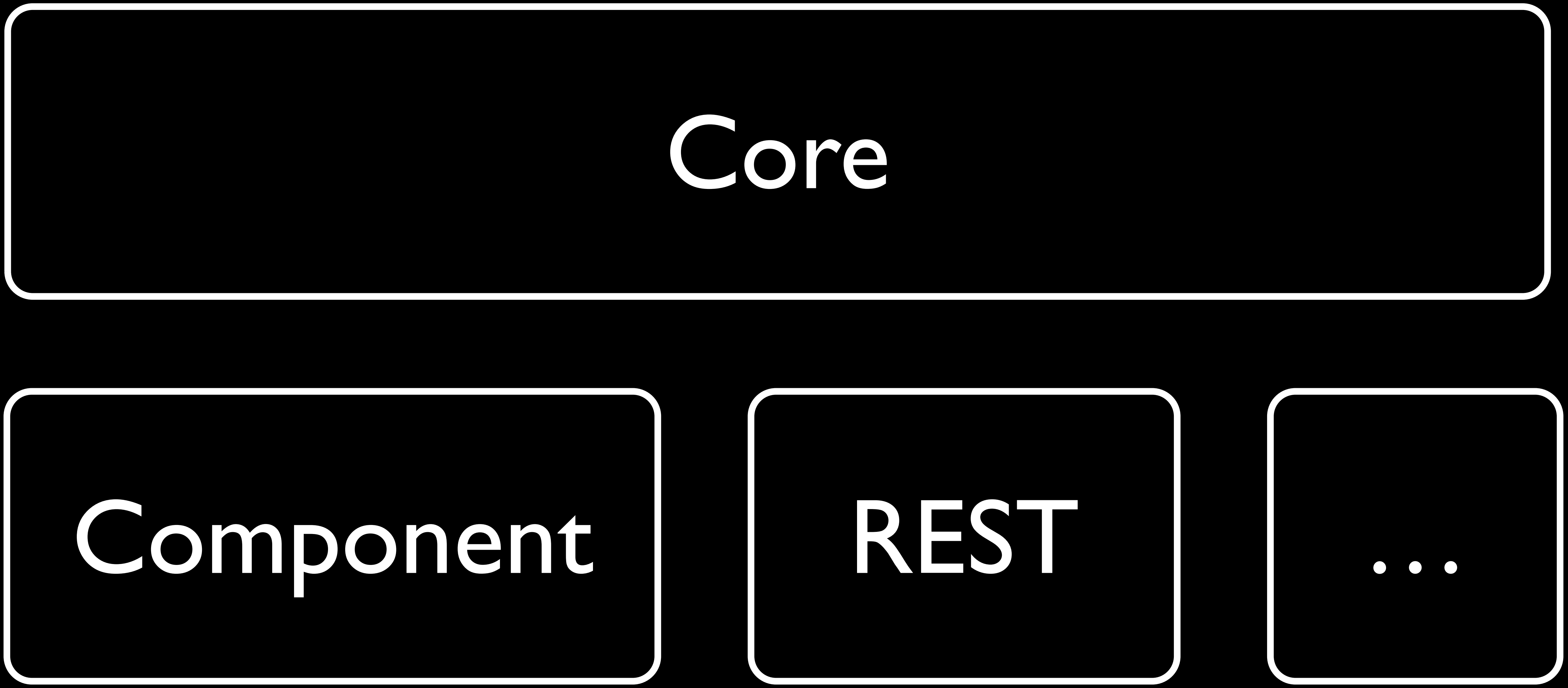


Core

Component

REST

Seaside 3.x



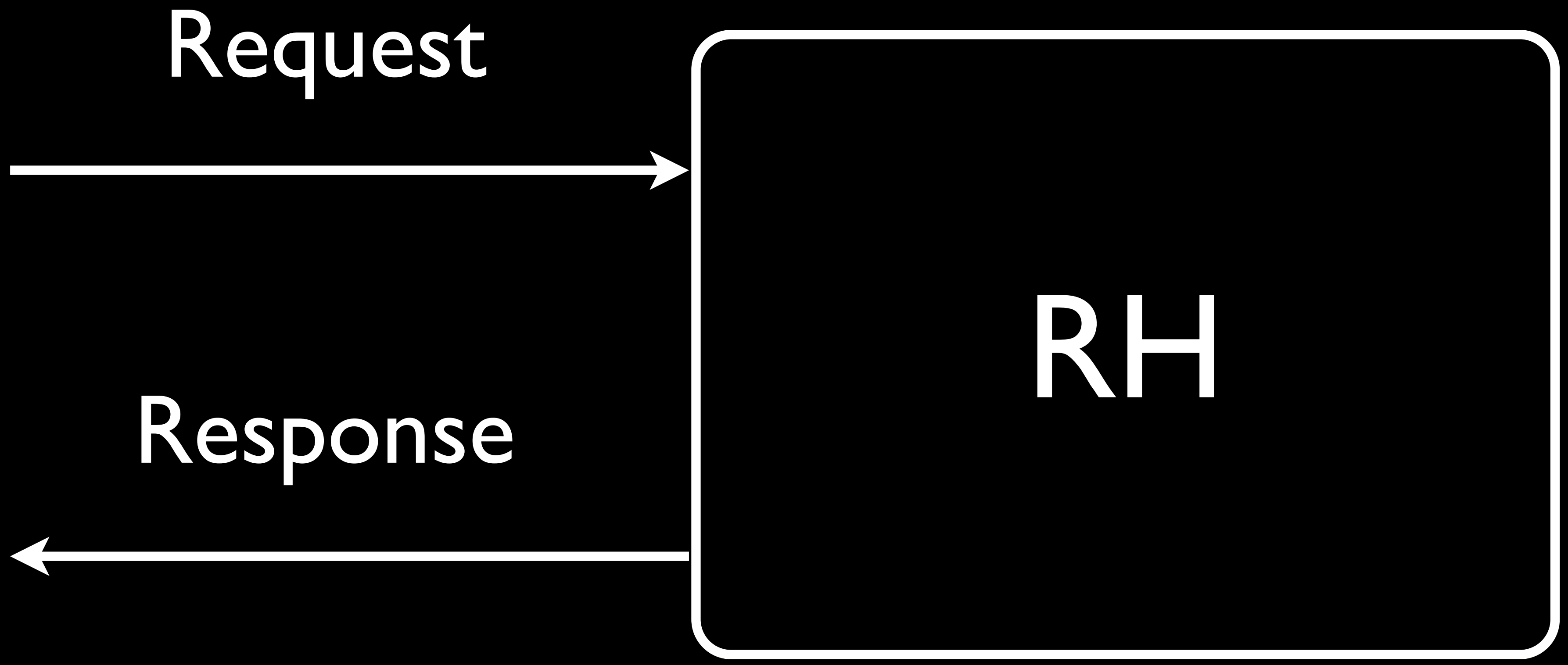
Core

Component

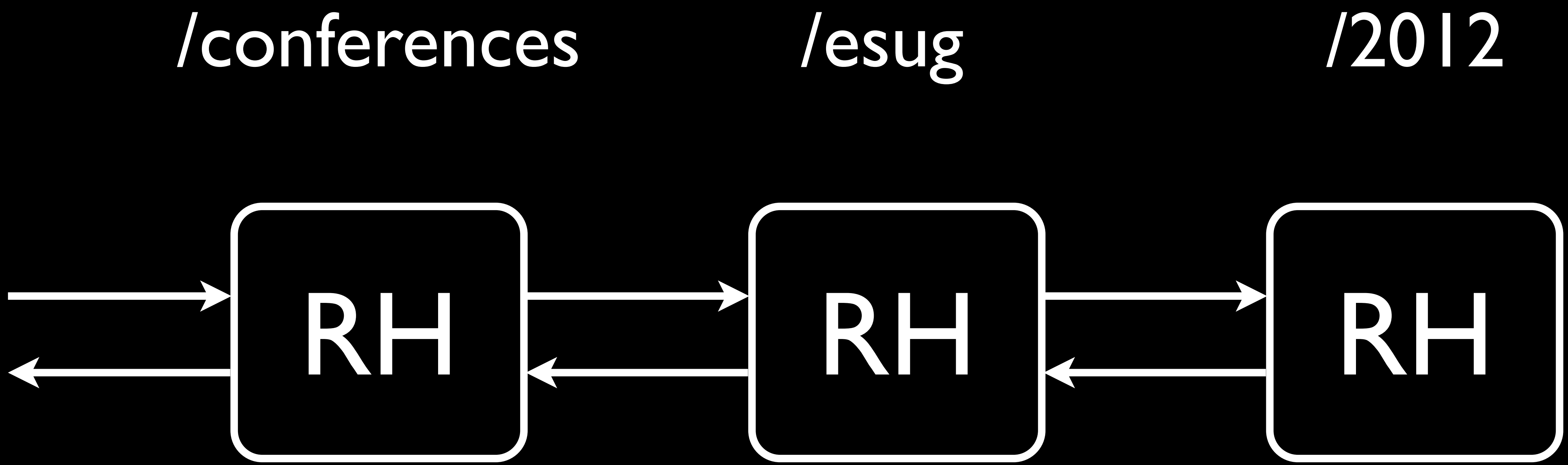
REST

...

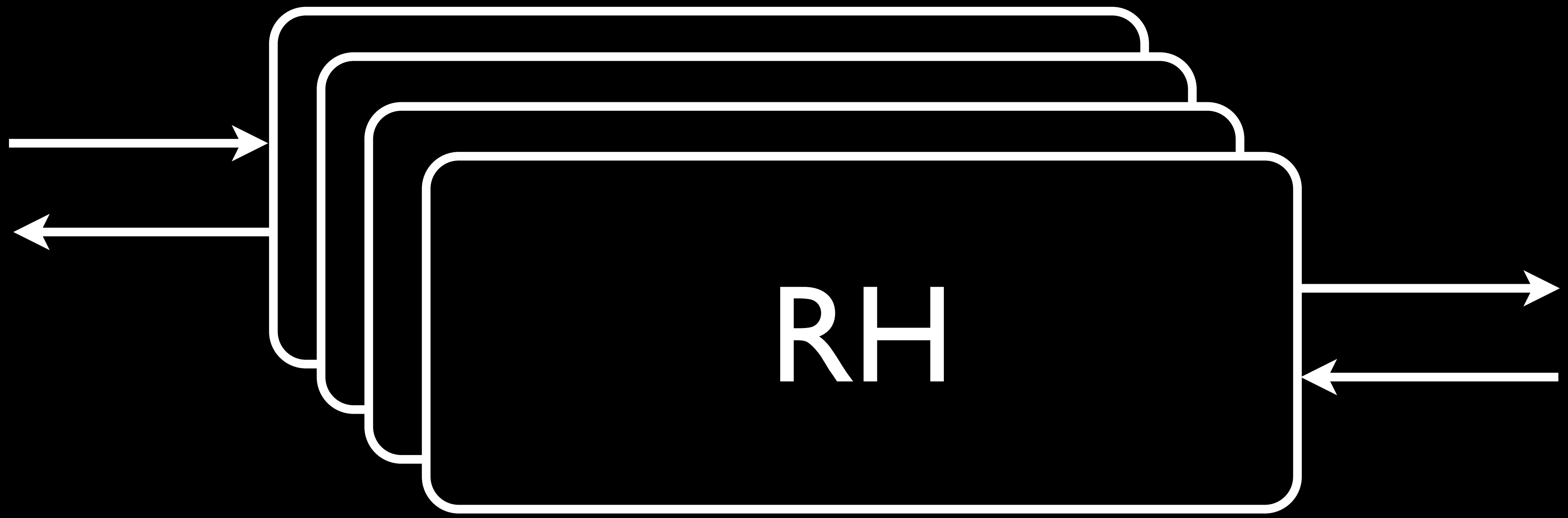
WARequestHandler



WARequestHandler



WARequestFilter



WASession 2.8

- current request
- jump to
- last continuation
- continuations
- monitor
- …

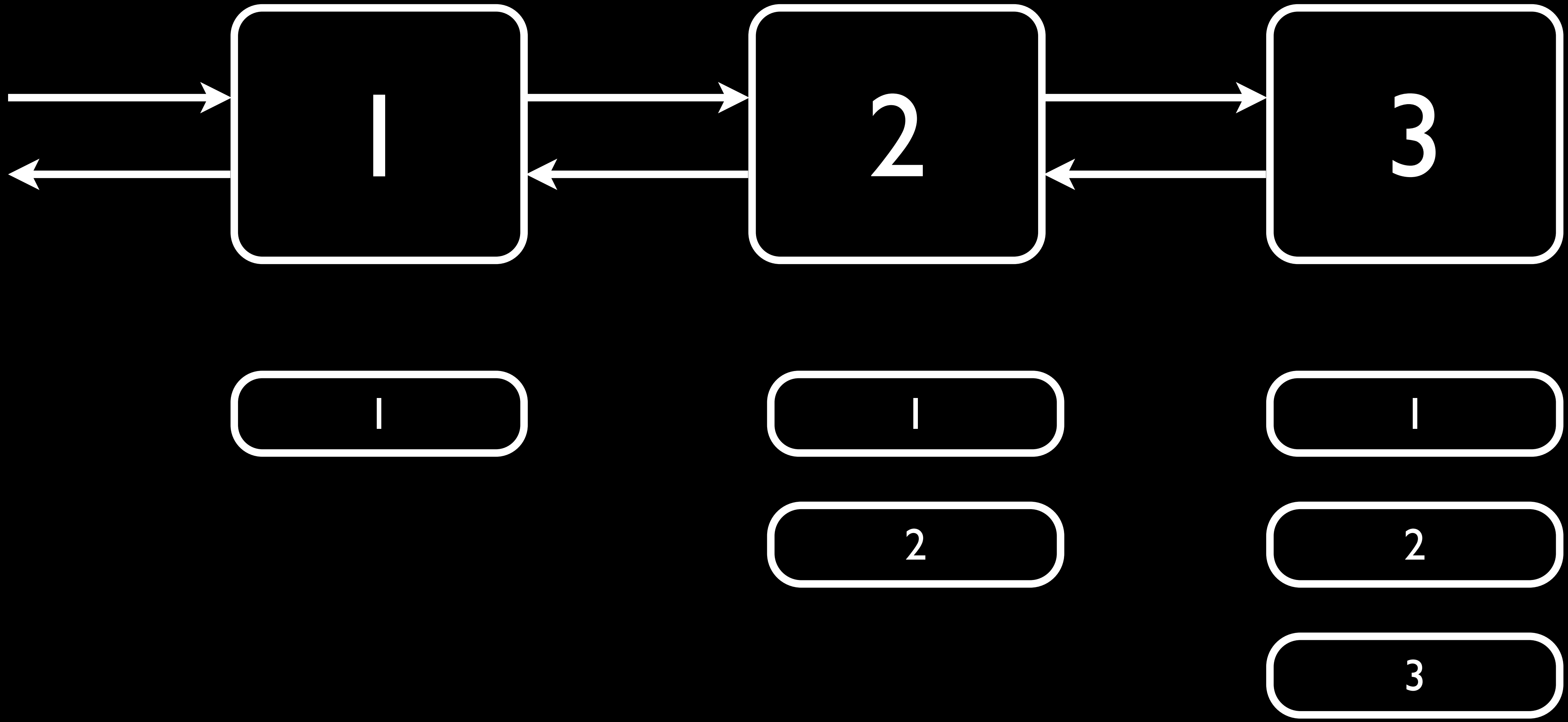
WASession 3.x

- continuations
- properties
- (document handlers)

WARequestContext

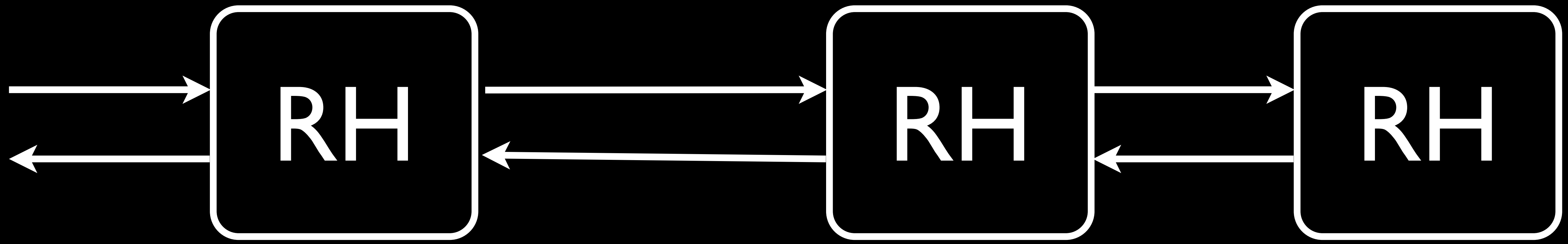
- request
- response
- handler stack

Request Handler Stack



WAPathConsumer

/conferences/esug/2012/…



RH RH RH

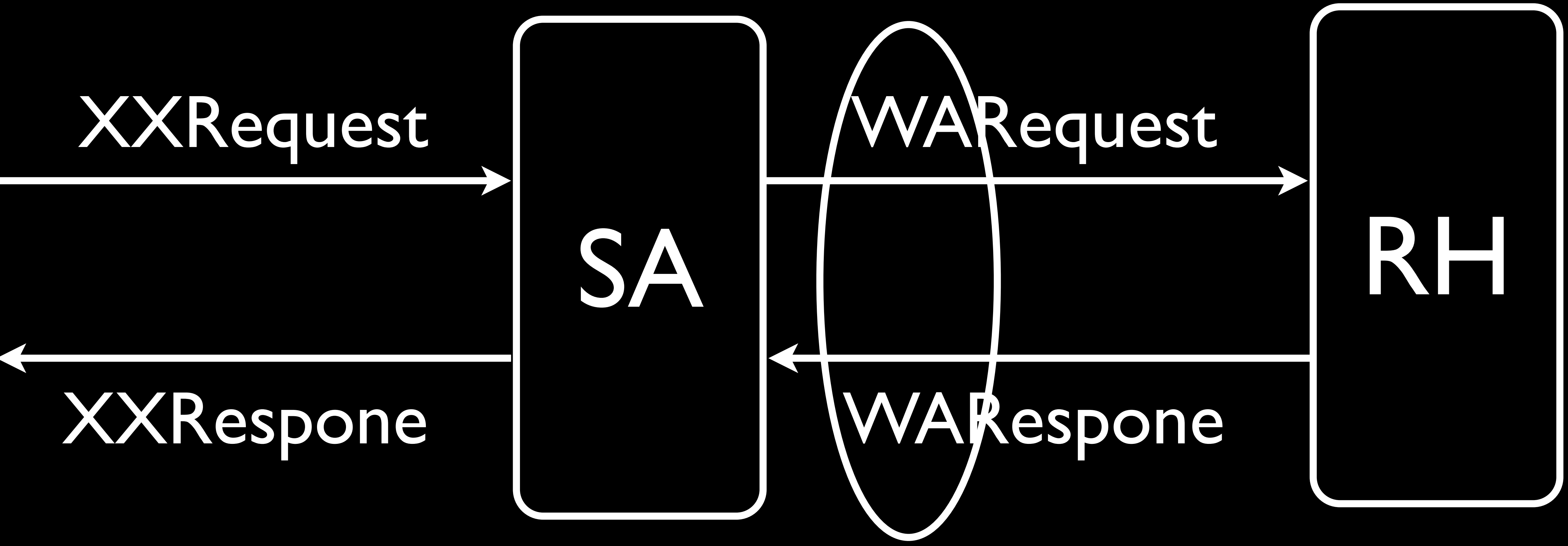
/esug/2012/… /2012/… /…

WADispatcher

```
‘conferences’ -> aRequestHandler
   ‘sponsors’ -> aRequestHandler
        ‘…’ -> aRequestHanlder
```

WASeve

provides template methods for converting
provides start and stop hooks
provides easy integration with server manager UI
you don't have to use it
sets up request context



WARequestContext

Frank

a micro framework inspired by Sinatra

Seaside-REST

Disclaimer

- REST in this context simply means "pretty URLs"
- pretty URLs for web services, not web applications
- this will feel a little weird

```
index
    <get>
    ^ ‘Hello World’
```

```
index
    <get>
    <path: ‘index.html’>
    ^ ‘Hello World’
```

```
indexHtml
    <get>
    <path: ‘index’>
    <produces: ‘text/html’>
    ^ ‘<h1>Hello World</h1>’

Accept: text/html
```

```
indexXml
    <get>
    <path: ‘index’>
    <produces: ‘text/xml’>
    ^ ‘<hello><world/></hello>’

Accept: text/xml
```

```
uploadXml
    <post>
    <consumes: ‘text/xml’>
    …

Content-Type: text/xml
```

```
uploadCsv
    <post>
    <consumes: ‘text/csv’>
    …

Content-Type: text/csv
```

```
getAllStartingAt: start limit: limit named: name
    <get>
    <path: ‘/{name}/_all_docs?start={start}&limit={limit}’>
    ...
```

#shouldCacheRoutes

WARestfulComponentFilter

```
count: count
  <get>
  <path: '/{count}'>
  self startSessionWithRoot: (WACounter new
    count: count greaseInteger;
    yourself)
```

Data Binding

- XML or JSON canvas
- Magritte-XML
- Magritte-JSON

Dialects

- GemStone
- Pharo
- VAST

Seaside 3.1

Session Tracking Fully Customizable

- query fields
- cookie only
- cookie if supported, query field otherwise
- cookie for browser, IP for crawler
- SSL session id (*)
- path parameter (*)

Path Parameter

- /;_s=KAAWI0x3c6KLnN6Q
- doesn’t need to be hidden form parameter
- required by some load balancers

WAMain gone

- specify initial continuation
- subclass `WASessionContinuation` if you used to subclass `WAMain`

WAPluggableActionContinuation

- replace `WAActionPhaseContinuation` subclasses with `WACallbackProcessingActionContinuation` subclasses

JSON

- separate from JavaScript
  - various subtle bugs fixed
- canvas API

Streaming Redone

- on demand flushing
- continuation that flushes after rendering </head>
- better portability to other servers

HTML 5

- `#multipleValuesCallback:`

Document Handlers

- stored in session
  - no longer stored alongside sessions
- _d

Other News

- Nick now part of core team
- experimental Pharo 2.0 support
- walkback should open at correct place in VW
- platforms can implement optimized HTML escaping

Help Wanted

- Morphic Control panel for Pharo 2.0

Seaside Sprint

- Friday at Vooruit
- Saturday at Camp location
- (Sunday)

Seaside Sprint Sponsors

- Reza Razavi
- 2Rivers

Links

- https://github.com/marschall/esug-2012-presentation
- http://ss3.gemstone.com/ss/frank
- http://code.google.com/p/seaside/wiki/Seaside310Changelog
- http://book.seaside.st/book/advanced/restful
- http://code.google.com/p/seaside/wiki/SeasideRest