

seaside 

Advanced

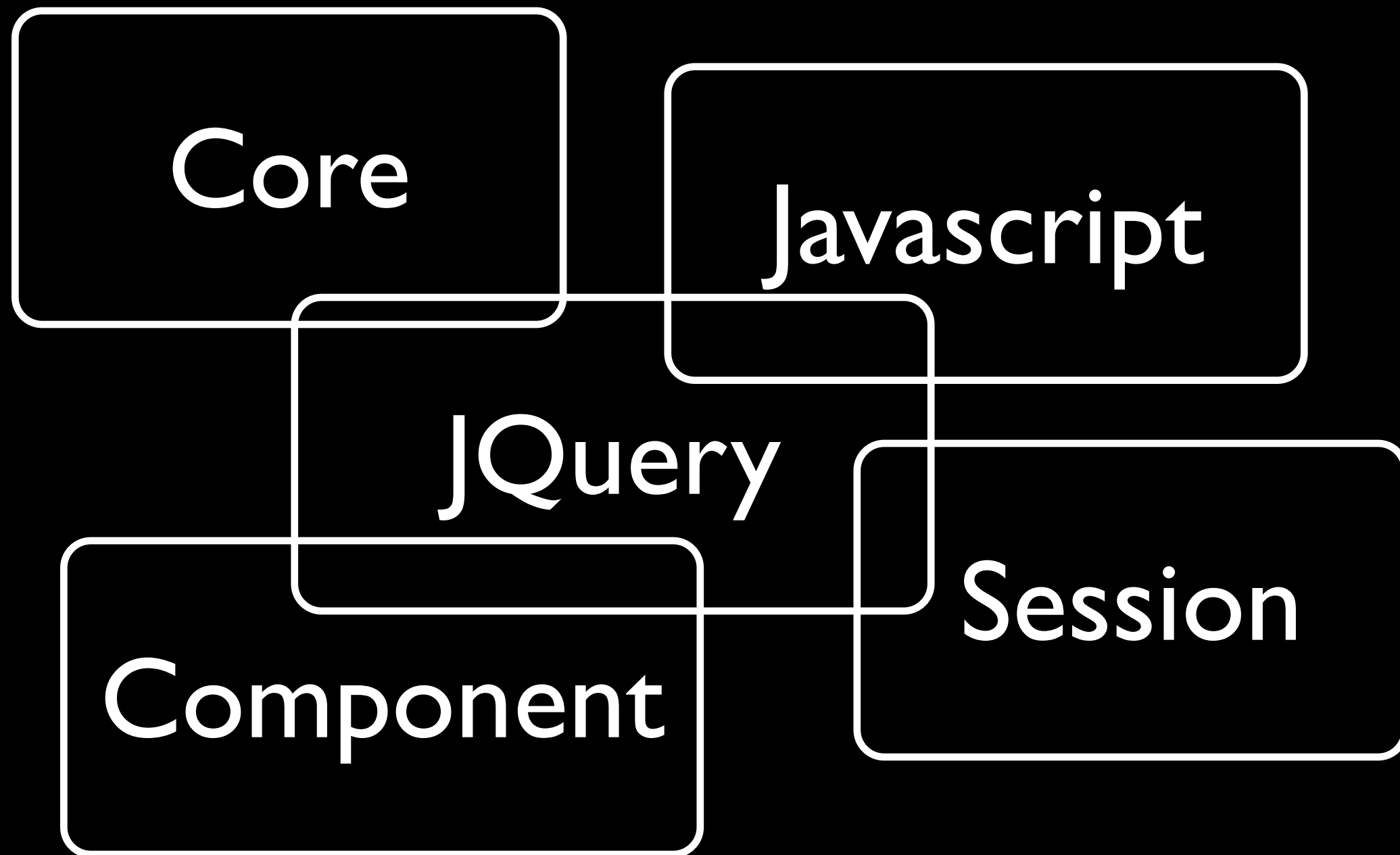
ESUG 2012 Ghent
Aug 30, 2012

Seaside 2.x

The word "Seaside" is centered within a white rounded rectangle.

Seaside

Seaside 3.x



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

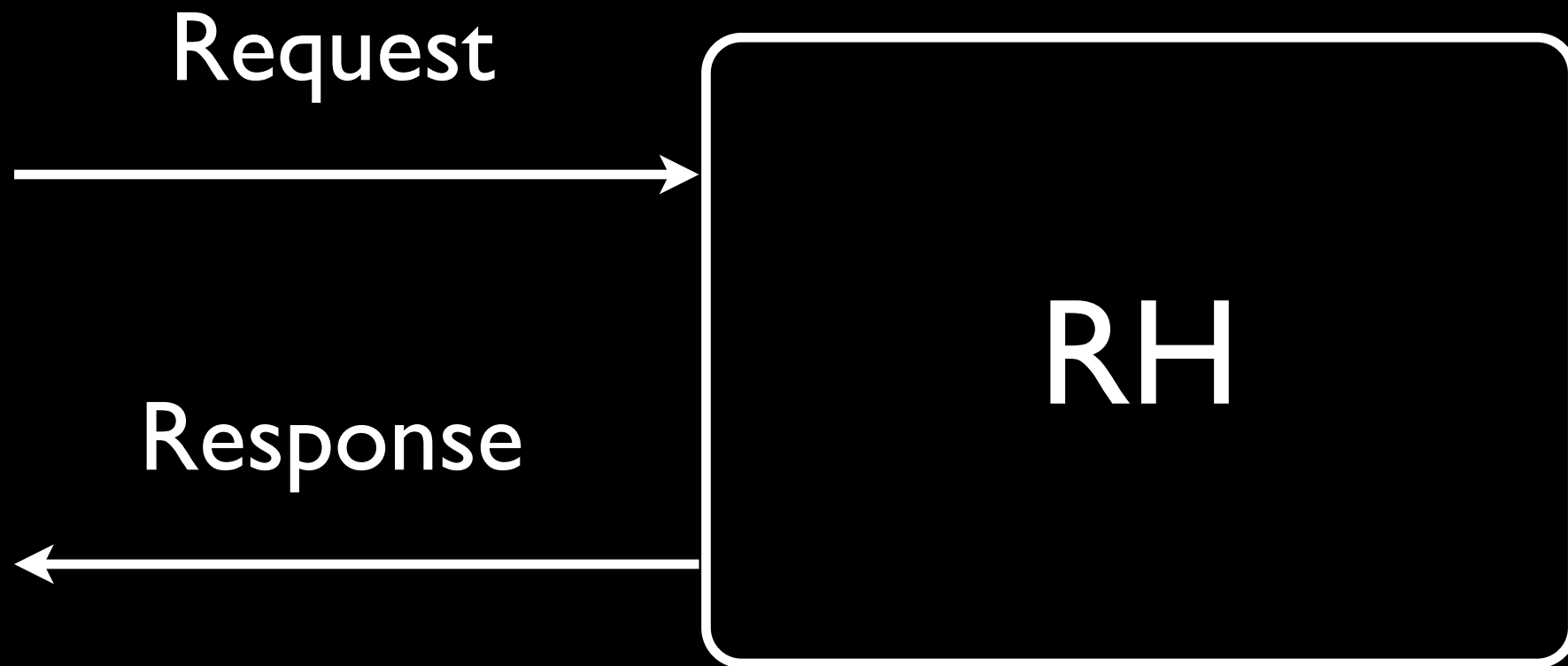
Core

Component

REST

...

WARequestHandler

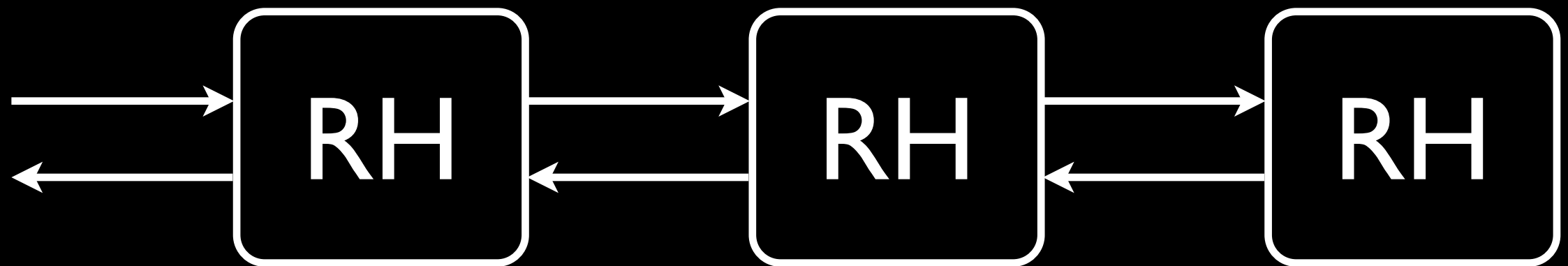


WARequestHandler

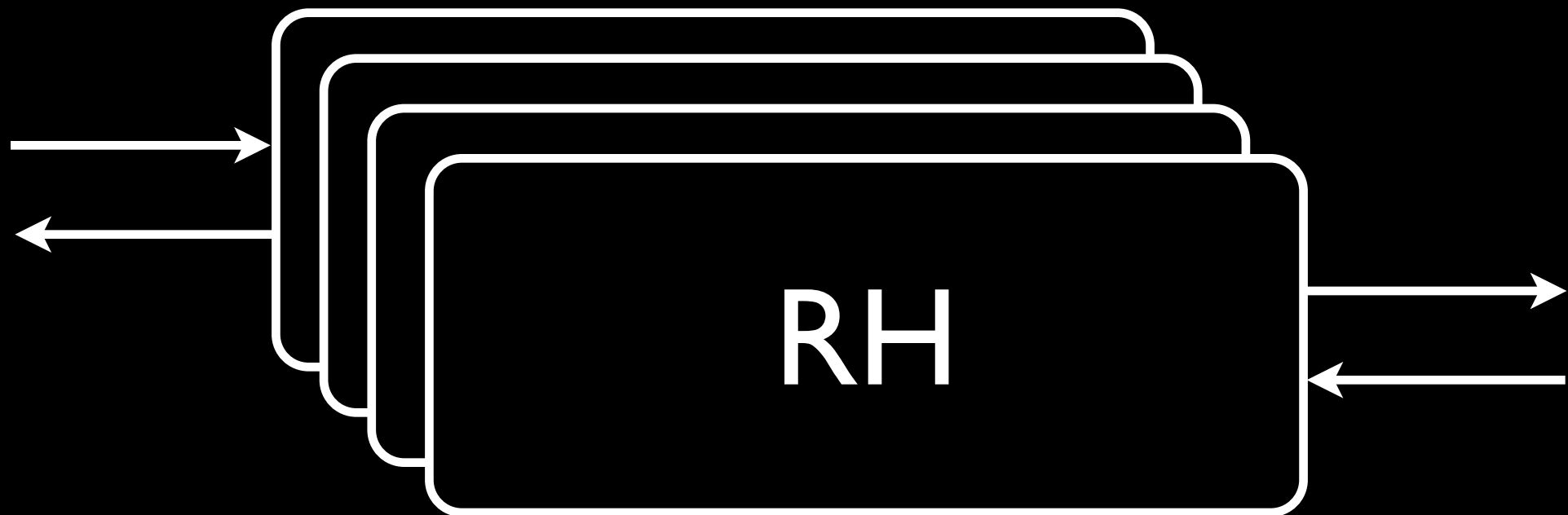
/conferences

/esug

/2012



WARequestFilter



WASession 2.8

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

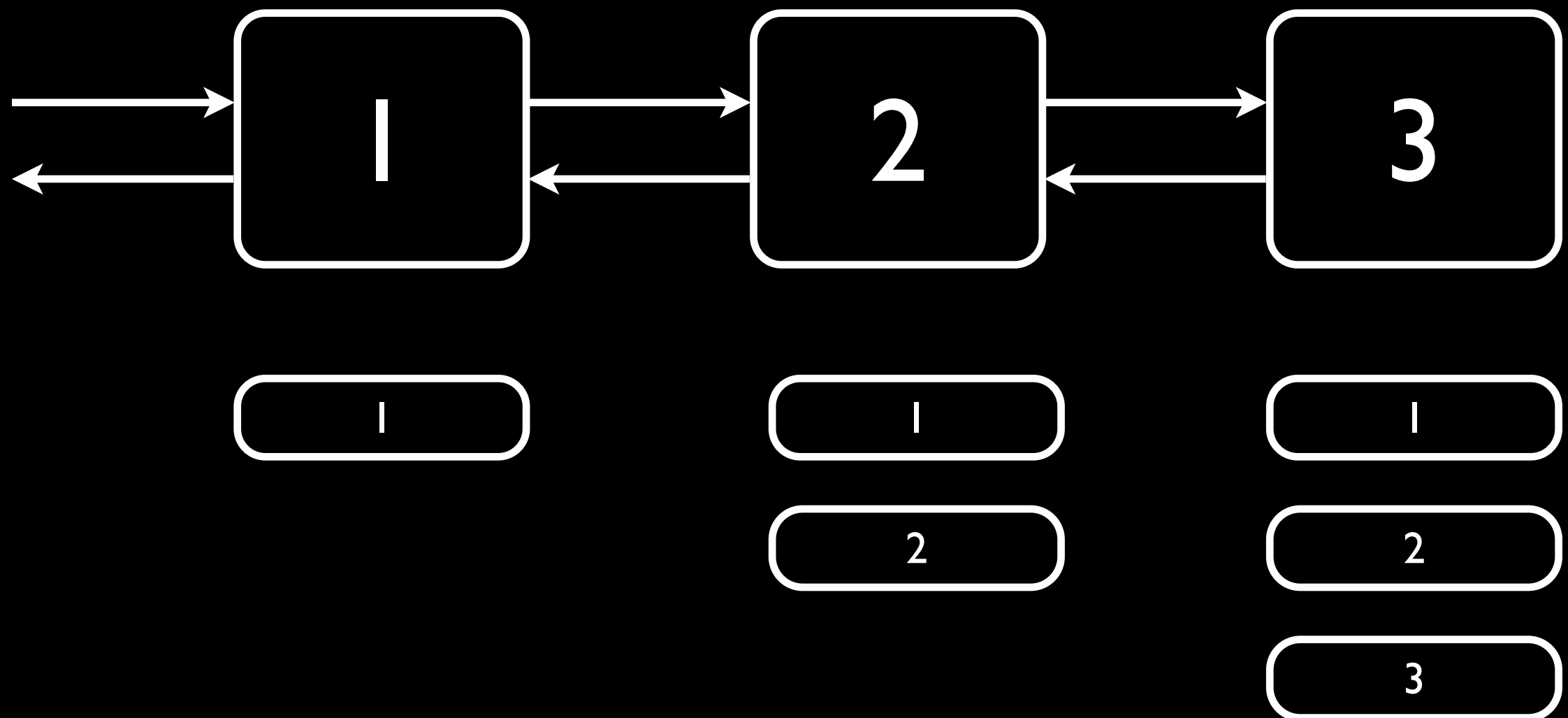
WASession 3.x

- continuations
- properties
- (document handlers)

WARequestContext

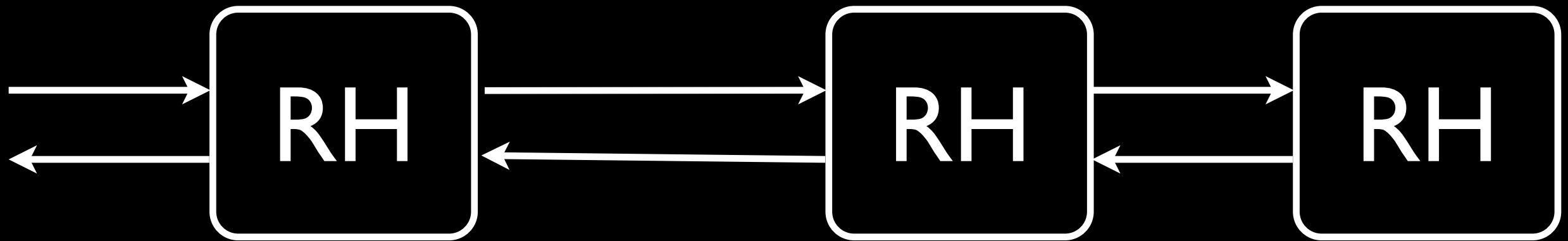
- request
- response
- handler stack

Request Handler Stack



WAPathConsumer

/conferences/esug/2012/...



/esug/2012/...

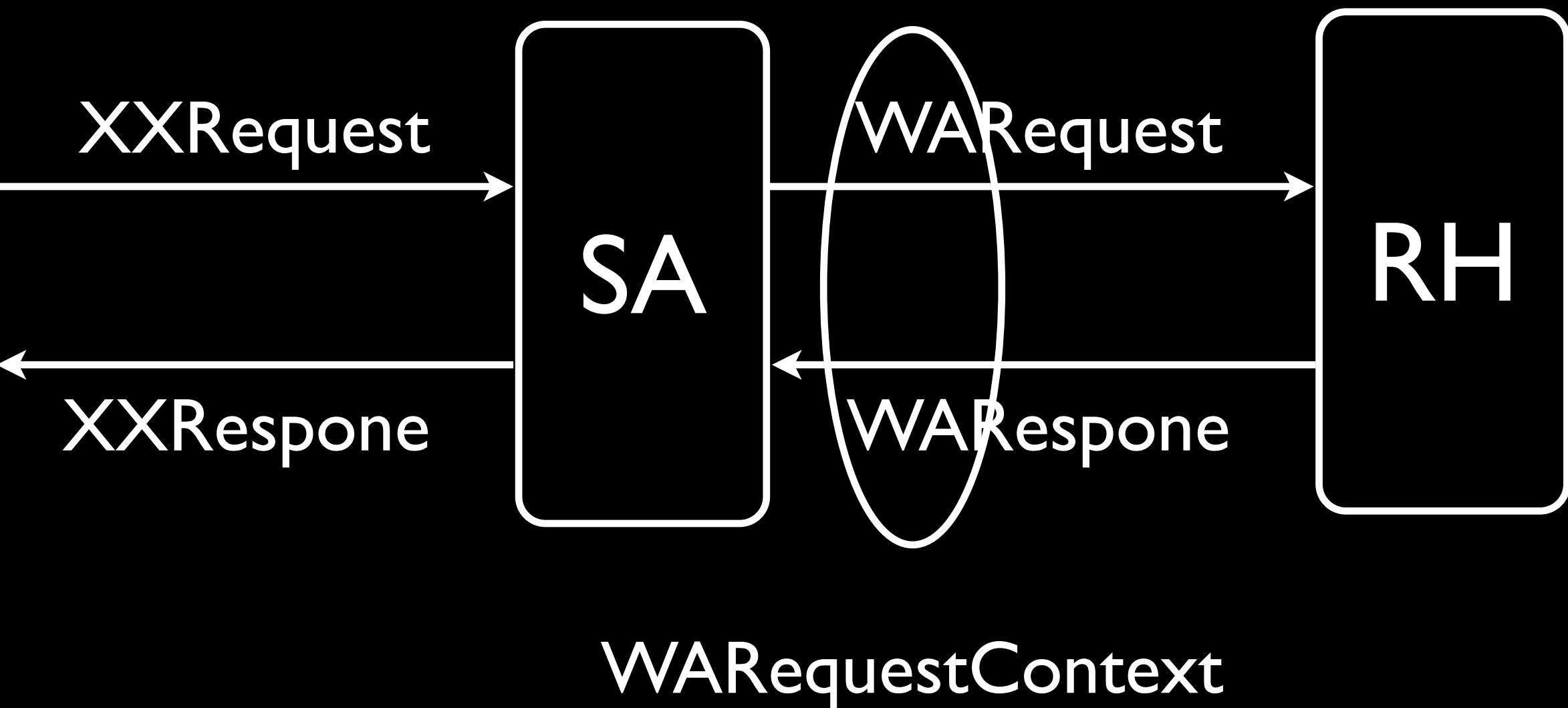
/2012/...

/...

WADispatcher

```
'conferences' -> aRequestHandler  
  'sponsors' -> aRequestHandler  
    '...' -> aRequestHanlder
```

WAServerAdapter



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>
- [Context-Oriented Programming: Beyond Layers](#)