

Why AppeX?

Challenges

- Web is moving very fast
 - Client code is mostly Javascript
 - Many open source libraries
 - Responsive client applications
 - One click ≠ one page
 - Single page applications are GOOD!
 - Javascript integration into IDE
 - Using cookies to manage sessions?
- How quaint, how nineties! (thank you, Kent Beck!)*

HTML5 / ECMAScript5 / CSS3

- Comet built-in (SSE)
- Support for web sockets
- Rich user interface
- Asynchronous processes

AppeX offers:

Javascript code editor

- Integrated with Smalltalk IDE
- Syntax and error highlighting
- Object oriented JS with class hierarchy
- What you write is what you get
- Minimum JS code generation
- Version control of your JS code

Session Management

- Uses HTML `sessionStorage` object
- Automatic activation
- Depends where service methods are
- Event notifications (HTML5 `EventSource`)

Cincom Systems, Inc.

Jerry Kott, Senior Software Engineer

AppeX

A framework for the development
of HTML5 and Javascript web
applications

Questions

Talk to us!

Suzanne Fortman: sfortman@cincom.com
Arden Thomas: athomas@cincom.com
Jerry Kott: jkott@cincom.com
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Let the show
begin!

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About this presentation:

- A web application
- Developed with Appex
- With the use of `impress.js`
- Play it live: `http://dhcp-172-17-28-228.wrd.wireless.private.cam.ac.uk:9999/`

Let the show
begin!

Let the show
begin!

Why AppeX?

state of the art

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HTML5 / CSS3

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State of the art

Issues

- IDEs not appealing to non-

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- IDEs not appealing to non-Smalltalkers
- Large pool of talented web developers untapped
- Frameworks are big
- Slow in catching up with JS libraries
- Debugging in the web browser is hard

- Single application per server

- Slow in catching up with JS libraries
- Debugging in the web browser is hard

- Single application per server
- Have to know HTML5 & JS...
...and how they are wrapped in Smalltalk
- Integration with other services is hard (e.g., WS)

HTML5 / ECMAScript5 / CSS3

- Comet built-in (SSE)
- Support for web sockets
- Rich user interface
- Asynchronous processes

*JavaScript integration into IDE
Using cookies to manage sessions?
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AppeX offers:

State of the art

- Total front end development
- Single point of contact with development
- No programming
- No design
- No testing
- No deployment

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AppeX

A framework for the development of HTML5 and javascript web

Let the show begin!

JavaScript / CSS3
(SSB)
sockets
face
processes

- No programming
- No design
- No testing
- No deployment
- No design
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Javascript code editor

- Integrated with Smalltalk IDE
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Session Management

- Uses HTML *sessionStorage* object
- Automatic activation
- Depends where service methods are
- Event notifications (HTML5 **EventSource**)

Application class

- Fits into **Sioux Responder** hierarchy
 - * **Sioux** presentation: **tomorrow** at 2:30 pm
- Represents the server side
- Instances are "sessions"
- Maintains application state
- Sends server events to client

Issues

- UI is not appealing to non-Sioux folks
- Large part of talented web developers untagged
- Frameworks are big
- Slow in catching up with JS libraries
- Developing in the web browser is hard

- Single application per server
- Have to know HTML5 & JS...
...and how they are used in a browser
- Integration with other services is hard (e.g. WS)

- Sends server events to client

ApplicationClient class

- Fits in **JavascriptClass** hierarchy
- Represents the client side
- Maintains application state on client
- One instance per browser tab
- Optionally links to a server session

- Single application per server
- Have to know HTML5 & JS
- 3rd party services available
- Integration with other services is hard (e.g., WS)

★ Create a Server
🔗 Add a preconfigured Server
📶 Quit Image
📶 Ping

Presentation

⏸ Stop Server
🔧 Start Debugging
📄 Start Logging
📄 Log contents
🗑 Remove this server...

Statistics

Completed Requests: **2** Pending Requests: **18** Response Rate: **22** per second
 Total Requests: **491** Total Responses: **473**

Listeners

📶 Add HTTP

⏸ (0.0.0.0:9999)
Connections:
⚙️ ⌵ ⌵

Responders

★ Create...
🔗 Add...

Path	Class	Description
/server-monitor	ServerMonitor	ServerMonitor is a web application used to monitor the servers running in a Smalltalk image. ✖
/example-chat	Chat	Chat is an example of server event notifications using the default EventSource object provided by the Appex framework. ✖
/session-demo	SessionDemo	✖

Chat Room

Enter your name:



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PROMOTIONS

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