



Laszlo Systems

OpenLaszlo: Ajax and Beyond

3/26/08

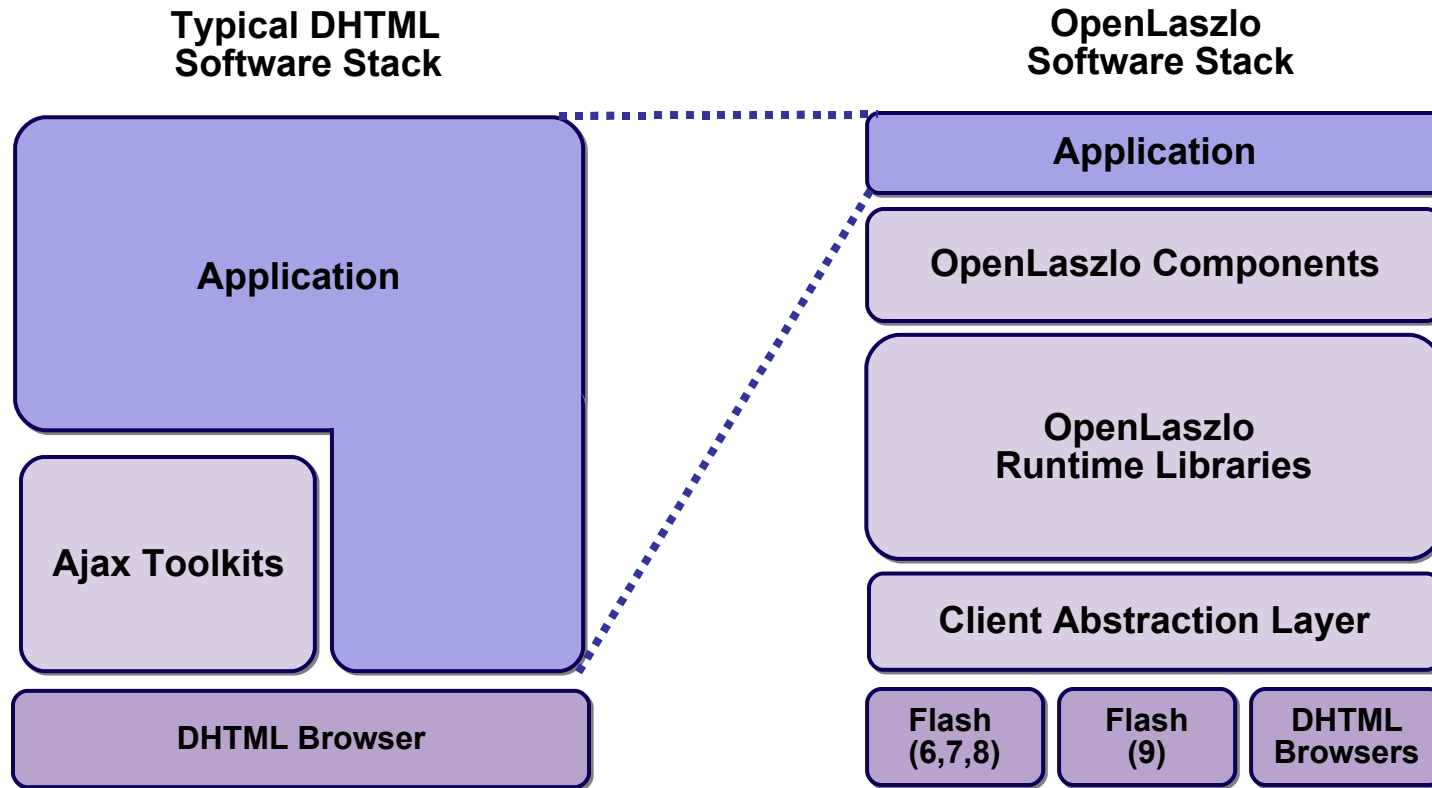
Transforming the Web Experience™
TRANSFORMING THE WEB EXPERIENCE



Introducing OpenLaszlo 4

- Blurring the lines between Ajax and RIA
 - [OpenLaszlo 4 Demos](#)
 - Orbit demo
- Support for several runtimes
 - DHTML/AJAX
 - Flash 7 and 8 (Flash 9 support coming soon)
- An architecture that can grow
 - Mobile Ajax
 - Java ME (Project Orbit)
 - Collaboration between Sun and Laszlo
 - Other runtimes

➤ Ajax Toolkits vs. OpenLaszlo For Advanced Apps



- Lack of high-level framework and rich component library means more code, complexity and less functionality
- Functions within apps are typically tied to certain (versions of) browsers

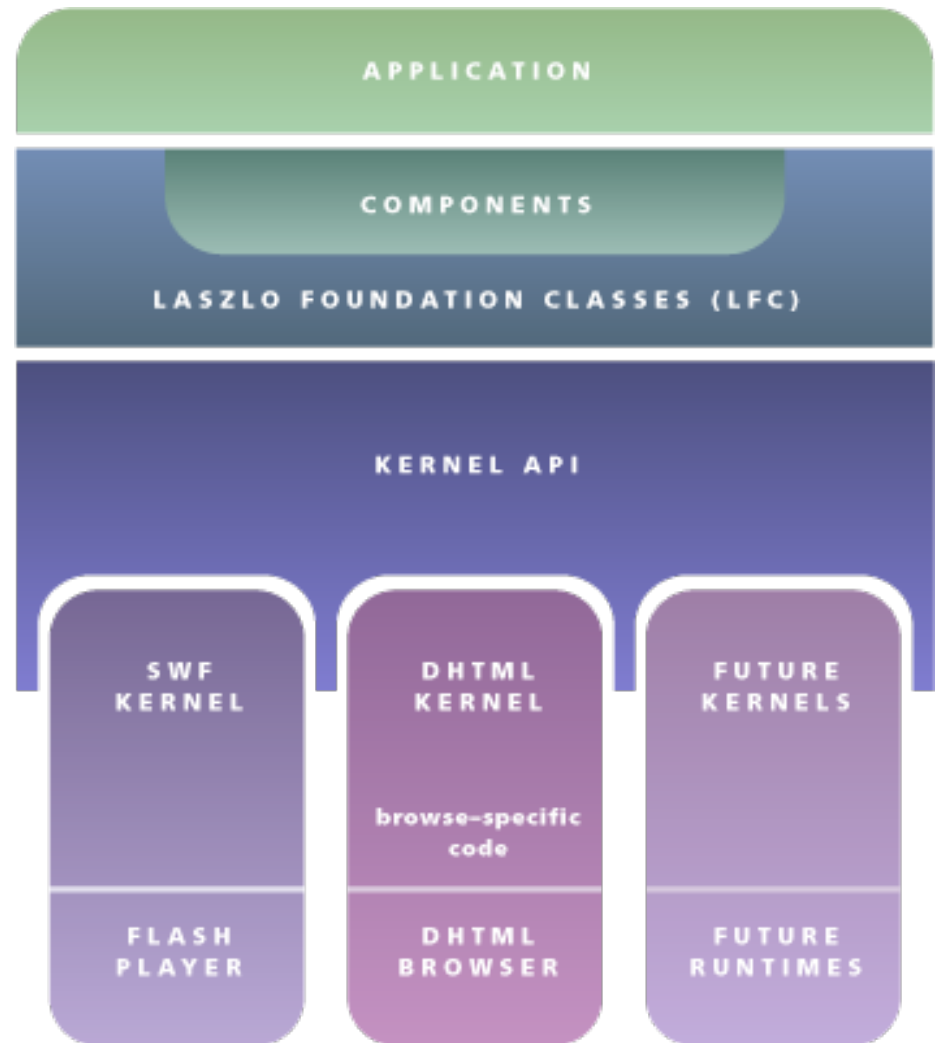
- Richness of components and framework reduces code for sophisticated apps
- Abstraction layer insulates developer from browser/runtime idiosyncrasies

➤ Compiler architecture

- Application LZX/XML is transformed to JavaScript 2
- JavaScript 2 compiled to runtime representation
 - Compressed JavaScript 1.2 for DHTML runtime
 - Can use native JavaScript 2 for Firefox 3, upcoming browsers
 - Bytecode for Flash runtimes
- Pre-compiled runtime library is delivered with application
 - Special runtime libraries provide instrumented code for profiling and debugging
- Debugging and Profiling
 - Adds embedded debugger for use inside applications - with Firebug support for DHTML

➤ Kernel architecture

- Each runtime has a lightweight JavaScript kernel
- Kernel APIs isolate the LFC from runtime idiosyncrasies
- Adding new runtimes is **relatively easy**



Developer experience

- All of this compilation/runtime magic is transparent
- Just edit your LZX on the server and hit reload in the browser to see your changes
- Choose which runtime you want at any time
- No browser or runtime idiosyncrasies - it 'just works'

➤ Cool new cross-runtime features in 4.0

➤ Dynamic vector graphics

- HTML 5 canvas implementation

➤ HTML display

- Laszlo application controls all aspects of the display

➤ Unobtrusive embedding

- Pages are searchable/indexable as regular HTML
- Applications unobtrusively replace HTML in documents while maintaining state

➤ History/state management

- Stores application state in the URL
- Enables bookmarking and deep linking

➤ All work consistently across Flash and DHTML (even IE!)

➤ Comprehensive Documentation and Support

Comprehensive built-in
documentation

The first book is now out at
<http://manning.com/klein/>

Active developer lists and
forums

Get involved!

Help us build the best
cross-runtime RIA platform
out there!

