

Website Structure

Website Structure

Status quo

- Header includes way too many files, is unstructured, general & specific in one
- Body contains a mixture of JS code, content and form (inline CSS commands)
- Chaos

Goal

- One general header
- Site specific header in the site's jsp file
- Clear separation of code, content and form in separate files

Javascript

Status quo

- Prototype framework
- Scriptaculous framework
- Crowdsound – whatever it is
- Ext JS - framework
- Manual JS files
- Manual inline JS

Goal

- If possible, only Ext JS framework
- No inline JS (only separate JS files)

CSS

Status quo

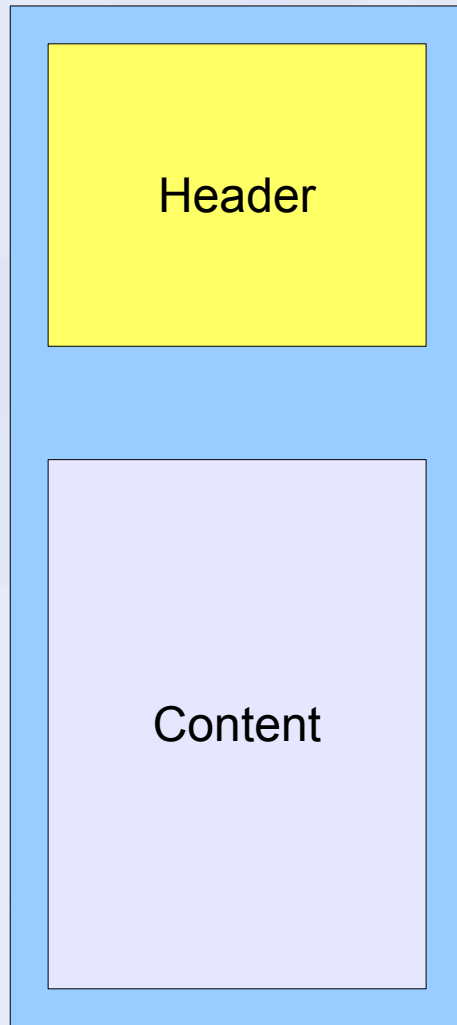
- CSS of JS frameworks
- YAML CSS framework
- Dozens of manual CSS files
- Inline CSS commands in HTML body

Goal

- Get rid of most manual CSS,
- all inline CSS and
- YAML framework

New Version

Header



General imports

`common/headGeneral.jsp`

Widgets

`widgets/widget1.jsp`
`widgets/widget2.jsp`
...

Site's Javascript

`scripts/user-scripts/
sitename.js`

Site's CSS

`css/sitename.css`

Content

[Graphical Header]
[Navigation]

```
<!-- ### Community Map ### -->
<div id="comm_mapColumn" class="comm_Column">
  <div id="search_container" class="widgetContainer"></div>
  <div id="map_container" class="widgetContainer"></div>
</div>

<!-- ### Community Details ### -->
<div id="comm_detailsColumn" class="comm_Column">
  <div id="metrics_container" class="widgetContainer"></div>
  <div id="members_container" class="widgetContainer"></div>
</div>
```

[Footer]

Ext JS

- Javascript framework
- Allows look & feel of a desktop application
- Elements: windows, panels, tabs, tables, forms, etc.
- Ajax: HTTP Request, JSON, XMLHttpRequest, etc.
- Only problem: It's complex

Official Examples:

<http://extjs.com/deploy/dev/examples/samples.html>

Table Tutorial:

http://extjs.com/learn/Tutorial:Grid_PHP_SQL_Part1

Various Examples:

<http://examples.extjs.eu/>

Widgets & Communication

Widgets

Status quo

- Widget panel is defined by inline JS
- The rendering functions for most widgets are in scripts/parser.js
- No simple way to include a widget
- Widgets in widgets/ not being used
- Widgets use different JS frameworks

Goal

- All widget functions in one widget file
- All widget files in widgets/
- All widgets use Ext JS

Widget-Server Communication

Architecture: REST
Method: HTTP Request
Data Format: XML file

Manual

Like in `widgets/metrics.jsp`

Manual request for each different version of the Internet Explorer plus a request for all other browsers.

With Prototype

Example `home.jsp`,

The HTTP request seems to be the only use of this library.

With Ext JS

Very similar to Prototype. I added a sample implementation:

`widgets/metrics-new.jsp`

Widget-Widget Communication

Client-side: only Javascript

Architecture

(see paper I sent you)

- Event based model
- Widgets add event listeners
- On event: widget sends messages to its subscribers