

dinsdag 26 oktober 2010

Smartsite iXperion 1.3: What's new?

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Smartsite iXperion 1.3: What's new?

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- Agenda
 - Introduction
 - MVC-style URLs
 - Smartlet Framework additions
 - Events
 - Subclassing
 - Skinning
 - Native XML
 - Questions

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- Introduction
 - 1.3 Release information
 - Public Work Items resolved: **264**
 - Internal fixes and additions: **352**
 - New Add-On Modules
 - Faceted Search Module
 - SMI 2.0 Module
 - 64-bit Support for CMS added
 - Available for download
 - <http://ixperion.smartsite.nl/>

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- MVC-style URLs (1/3)
 - We have Friendly Urls in Web Pages:
 - <http://my.domain.com/mychannel/mysection/mypage/>
 - ... but what about Web Applications?

- We have this:
 - Ugly, technical, and hard to remember urls:
<http://till-you-drop.nl/shop?category=electronics&subgroup=tv&brand=sony>

- We want this:
 - Beautiful, readable and easy to memorize urls:
<http://till-you-drop.nl/shop/electronics/tv/sony>

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- MVC-style URLs (2/3)

- The solution

- *FriendlyNameType* addition: [Supports URL Parameters](#)

- Vipers:

- `{request.mapparams(category, subgroup, brand)}`

- `{request.query(category)}`

- `{url.mapparams($url, category, subgroup, brand)}`

- `{url.setparameter($url, category, electronics)}`

- Features

- Opt-in

- Fully downward compatible

- Complete no-brainer

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- MVC-style URLs (3/3)
 - [Demo](#)



See <http://www.webrichtlijnen.nl/richtlijnen/webrichtlijnen-1/r-pd-4-6>

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- Smartlet Framework issues
 - Customer demands lead to **copies** of Smartlets, making it hard to roll out fixes/patches
 - **Flexibility limited** to setting Smartlet- and box properties
 - **No interaction layer** to make Smartlets collaborate
 - Difficult to customize styling (CSS)
- Example: Event Calendar 1.0 ([demo](#))

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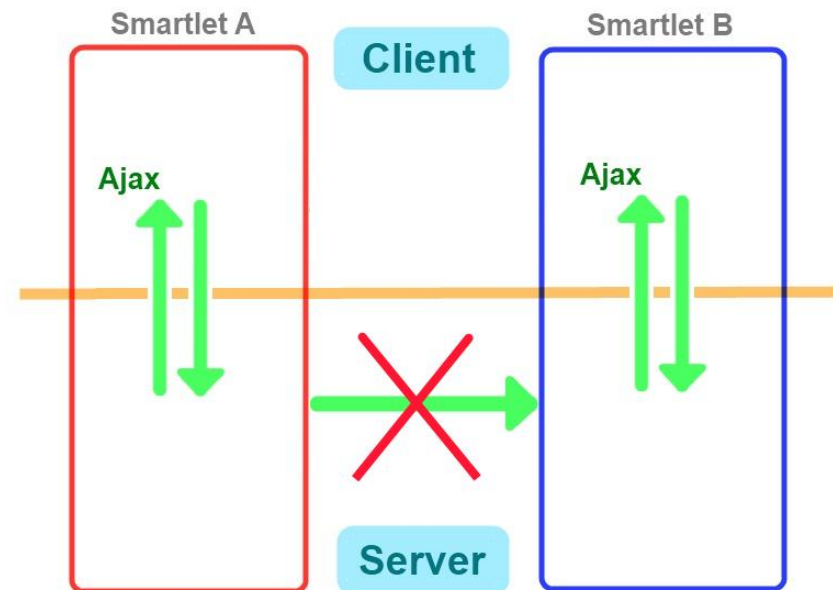
- Additions to the Smartlet Framework in 1.3
 1. Smartlet **Event Model**
 2. Smartlet **Subclassing**
 3. Smartlet **Skinning**

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- Smartlet Event Model (1/3)
 - The Problem
 - No communication between Smartlets
 - Use global buffers for serverside interaction (undesirable)
 - Custom javascript for client interaction

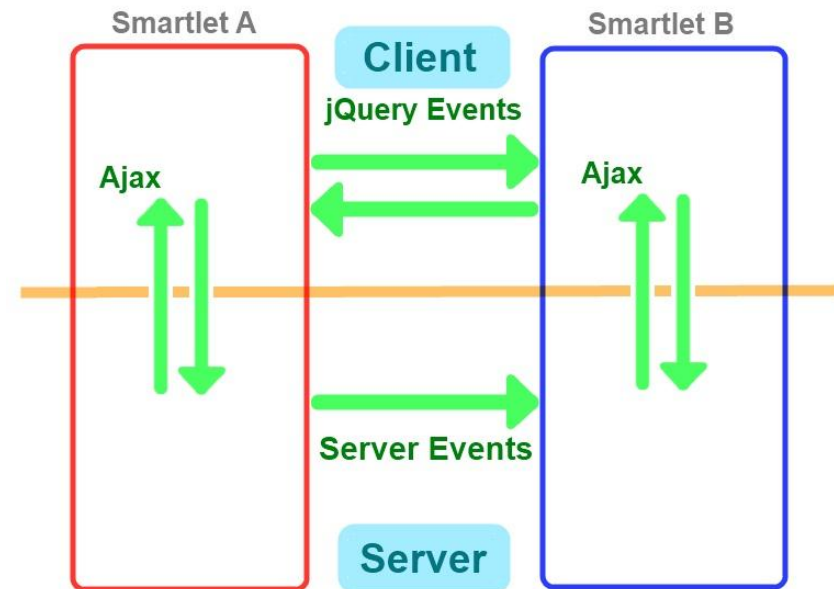


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- Smartlet Event Model (2/3)
 - The solution:
 - Loosely coupled interaction
 - Both server- and client
 - Data-exchange on server
 - jQuery events on client
 - Fully integrated in Ajax callbacks
 - Interaction between Smartlets
 - Interaction between Smartlet and environment
 - Very easy to use



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- Smartlet Event Model (3/3)
 - [Smartlet Events Demo](#)



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- Subclassing (1/3)

Translation scoping is one of Smartsite's major rendering principles...

...but it is **implicit** ...

... until now!

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■ Subclassing (2/3) = **Explicit scoping**

Generic new feature for executing translations in a **given scope**, with a **fallback scope** provided in case the translation is not in scope.

- Use in Smartlets to allow subclassing of local translations in the Smartlet folder
- Syntax: `{sys.eval(expression, translationScope, fallbackScope)}`
- Example (adapted from Faceted Search Module):

```
{sys.eval(  
  ix_formatresults($data, smartlet.get(terms), smartlet.get(scale)),  
  smartlet.page(), smartlet.number()  
)}
```

- You decide which parts of your Smartlet are subclassable.
Use `translation.localscope`:

```
{translation.localscope.formatresults($data,  
  smartlet.get(terms), smartlet.get(scale))}
```

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- Subclassing (3/3)
 - [Demo](#)



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■ Smartlet Skinning(1/2)

Create multiple skins for Smartlets

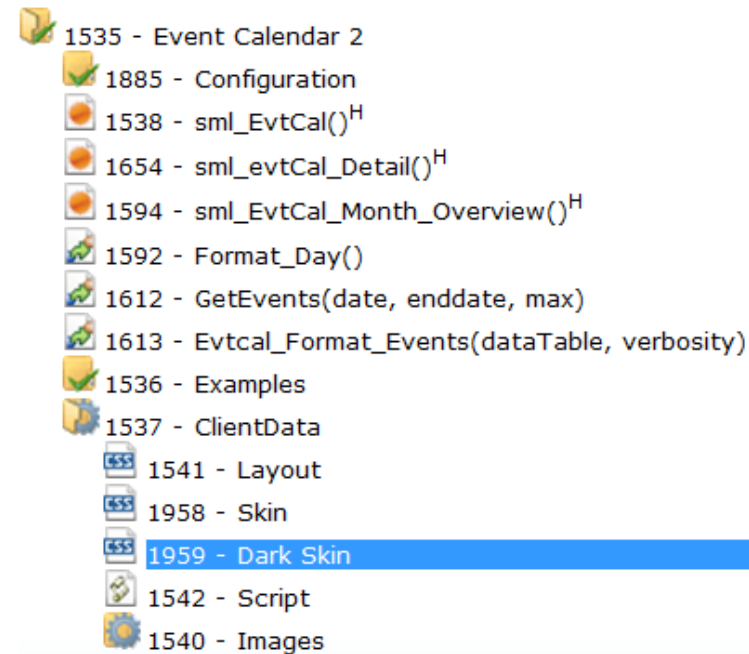
- Use boxskin named argument in Smartlet call:

```
{sml_eventcalendar(boxskin='dark')}
```

- Use .<skin-name> in CSS:

```
{smartlet.nameselector()}.dark {  
    background-color: #555;  
}
```

- Add skin items to ClientData folder



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- Smartlet Skinning(2/2)
 - [Smartlet Skinning Demo](#)



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- Native XML (1/5)
 - XML is now a built-in SXML type.
 - Avoids conversion from- and to strings.
 - Supporting macros & vipers
 - XmlProcessor Macro
 - Xml Viper class
 - Many macros and vipers now directly work with Xml type.
 - Transform Macro
 - Webservice Macro
 - Convert Viper Class
 - Site.Config Viper Class
 - Etc...



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- Native XML (2/5)
 - XmlProcessor Macro
 - Applies actions to XML using **XPath** and **SXML**
 - Namespace-aware
 - In-place XML (and XHTML) manipulation
 - Build string while walking the XML hierarchy
 - Retrieve data from an XML document
 - ... much more

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- Native XML (3/5)
 - XmlProcessor Macro Syntax

```
<se:xmlprocessor>
  <se:parameters>
    <se:parameter name="xml">
      <input type="checkbox" name="keepMeLoggedIn" />
    </se:parameter>
    <se:parameter name="actions">
      <se:collection>
        <se:member query="//input[@name='keepMeLoggedIn']">
          {this.setattribute(checked, checked)}
        </se:member>
      </se:collection>
    </se:parameter>
  </se:parameters>
</se:xmlprocessor>
```

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- Native XML (4/5)
 - XmlProcessor Macro Short Syntax

```
<se:xmlprocessor
  actions="|//input={this.setattribute(checked, checked)}|"
>
  <input type="checkbox" name="keepMeLoggedIn" />
</se:xmlprocessor>
```

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- Native XML (5/5)
 - [XmlProcessor demo](#)



Smartsite iXperion 1.3: Goodies

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<http://docs.ixperion.smartsite.nl/>

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