Extending VisualEditor

Inez Korczyński & Christian Williams
• Where fans go to create and collaborate around original content
• 75 million monthly unique visitors and 300,000 communities
• Leading collaborative publisher on the web and mobile
GMap MediaWiki Extension
GMap Extension

- /extensions/gmap/
- Parser tag: <gmap attrs...></gmap>
- Attributes: Latitude, Longitude, Width, Height, Zoom
- Renders a static map image with a marker
Let’s have a look!
Parsoid

Wikitext

Parsoid

HTML + RDFa
Parsoid

- New bi-directional parser written in JavaScript
- Runs server-side via Node.js
- Speaks to the MediaWiki API when necessary
- Provides HTML+RDFa load and save APIs
- HTML+RDFa from Parsoid is not rendered
Parsoid

typeof="mw:Extension/gmap"
Parsoid

```html
typeof="mw:Extension/gmap" data-mw='{"name":"gmap","attrs":{"lat":"22.3000","long":"114.1667","height":"300","width":"300","zoom":"9"}}
```
Parsoid

<div style="float: right;" typeof="mw:Extension/gmap" data-mw="{"name":"gmap","attrs":{"lat":"22.3000","long":"114.1667","height":"300","width":"300","zoom":"9"},"body":{"extsrc":""}}' data-parsoid='{"src":"<gmap lat="22.3000" long="114.1667" height="300" width="300" zoom="9"></gmap>","dsr":[29,101]}' about="#mwt3">

<img src="http://maps.googleapis.com/maps/api/staticmap?markers=22.3000%2C114.1667&amp;size=300x300&amp;zoom=9&amp;maptype=roadmap&amp;sensor=false" data-parsoid="{}">

</div>
VisualEditor

Visual Editor
Data Model
ContentEditable
User Interface
• Mirrors nodes from Parsoid
• Data access API for getting and setting attributes
• Notifies ContentEditable Nodes when data changes
• Responsible for producing HTML for Serializer
• Listens to **Data Model Node**

• Handles user interaction

• Responsible for rendering elements in the editor
Let’s code!
ContentEditable Mixins

- ProtectedNode
- FocusableNode
- ResizableNode
- RelocatableNode
Let’s mix!
VisualEditor

Visual Editor
Data Model
ContentEditable
User Interface
User Interface
• Dialogs
• Inspectors
• Widgets
User Interface

- Dialogs
- Inspectors
- Widgets

You should visit Hong Kong. It's really fun!

(http://www.hongkong.com)
• Dialogs
• Inspectors
• Widgets
Let’s code!
User Interface
VisualEditor

Visual Editor
- Data Model
- ContentEditable
- User Interface
Serializer

- Component of Parsoid
- Converts HTML+RDFa to Wikitext
- Uses selective serialization to prevent dirty diffs
Packaging your Plugin
Packaging your Plugin

- DM, CE, and UI files are included in /extensions/gmap/
- Include VisualEditor and GMap in LocalSettings.php
- Create GMap ResourceLoader module
- Register GMap module with VisualEditor
• Working on Photo, Video, and Gallery plugins

• Releasing November 2013
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