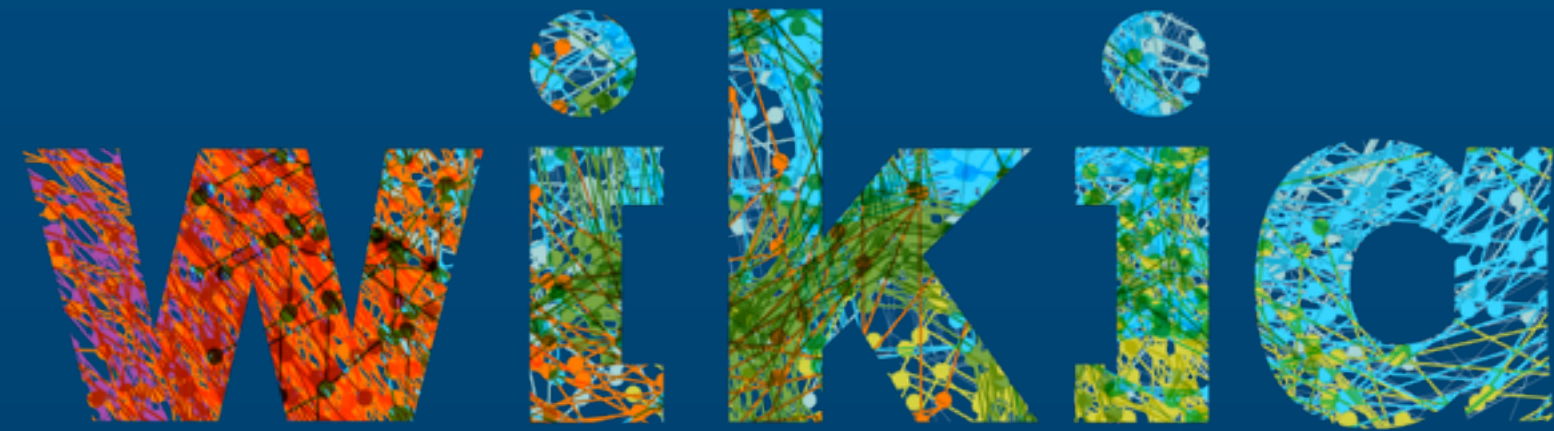


Extending VisualEditor

Inez Korczyński & Christian Williams

wikiid



- 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

visual editor



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

```
<gmap lat="22.3000" long="114.1667" height="300" width="300" zoom="9"></gmap>
```

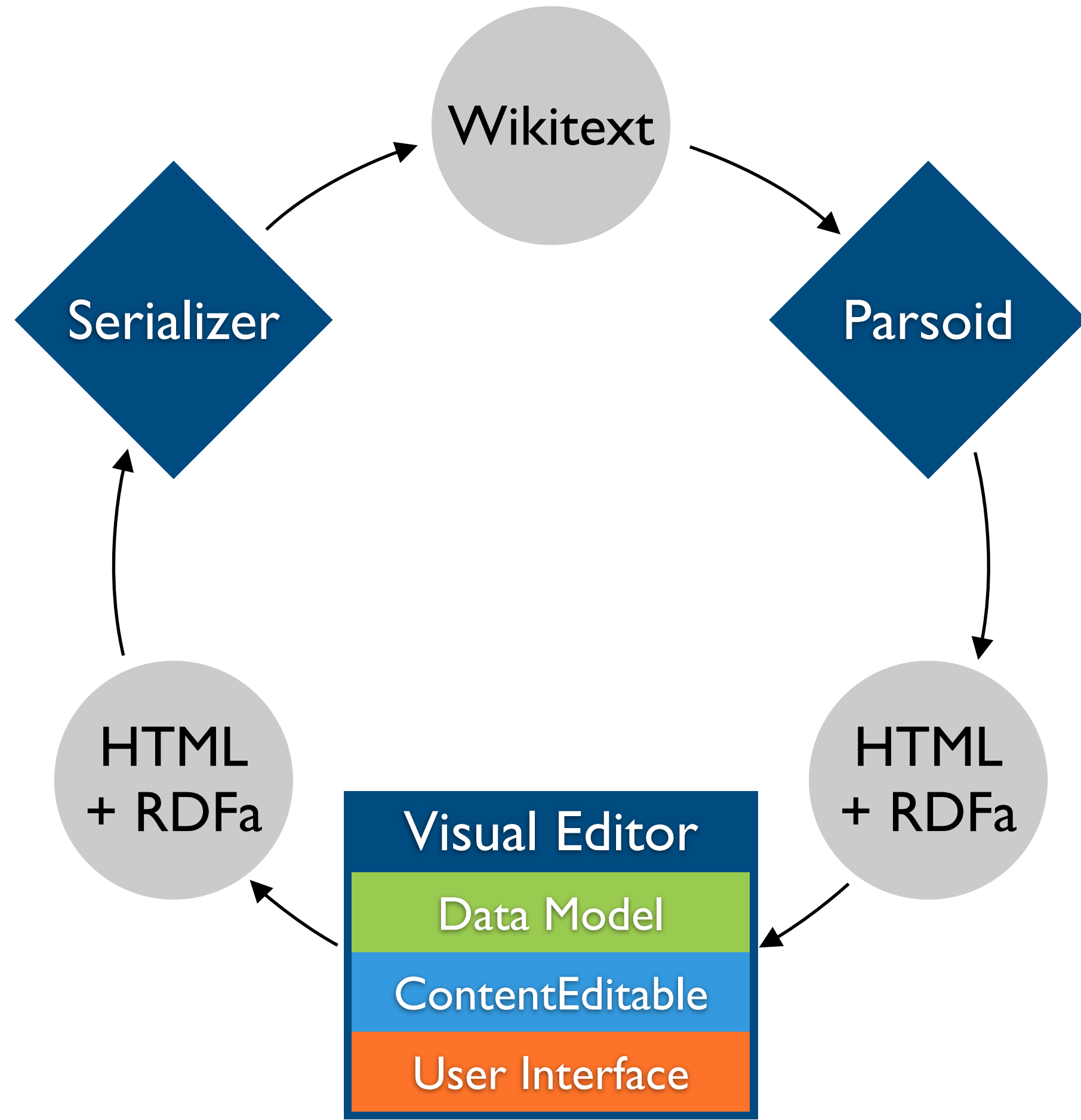
WIKITEXT

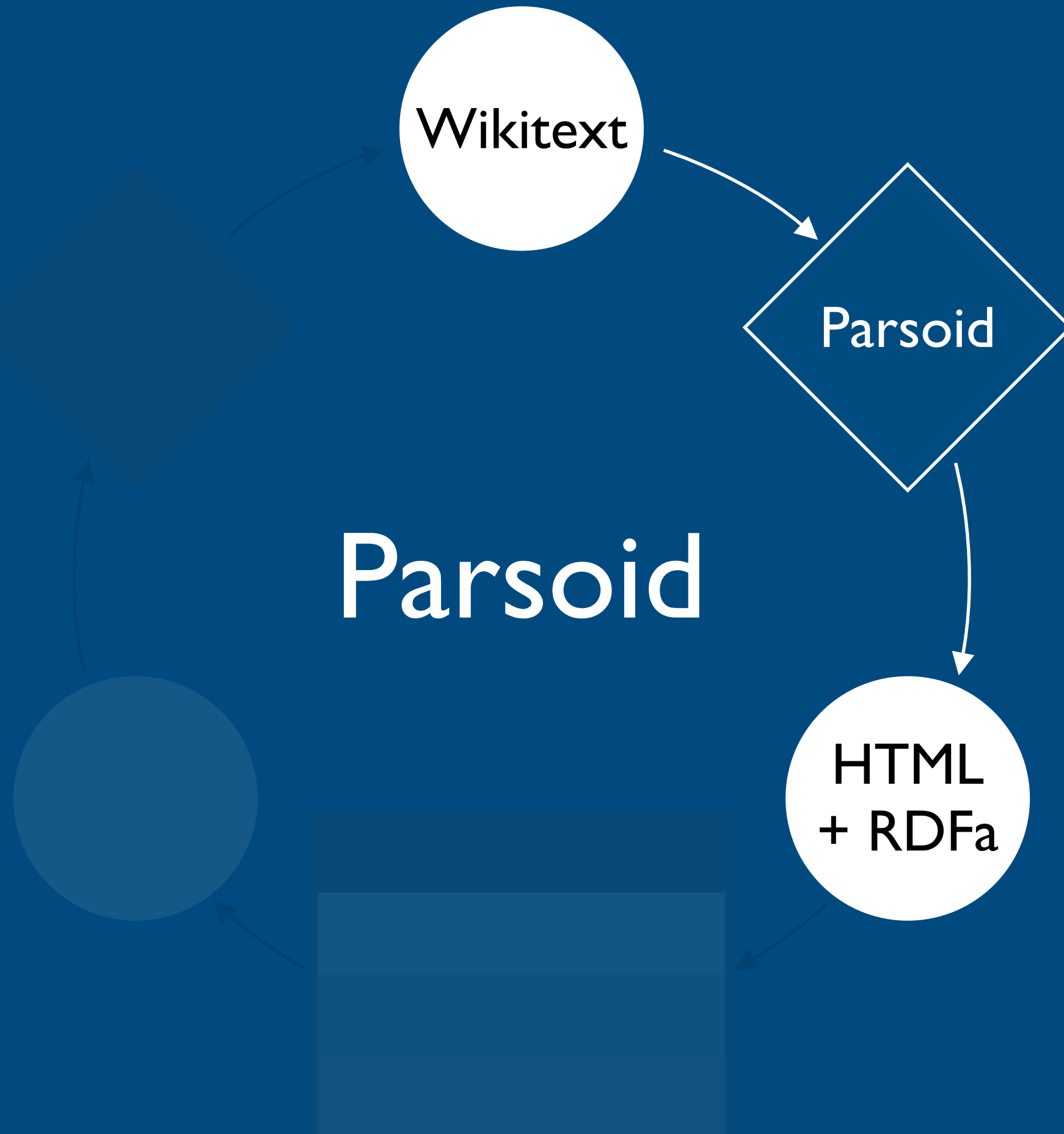


VIEW

Let's have a look!

GMap VisualEditor Plugin





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

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

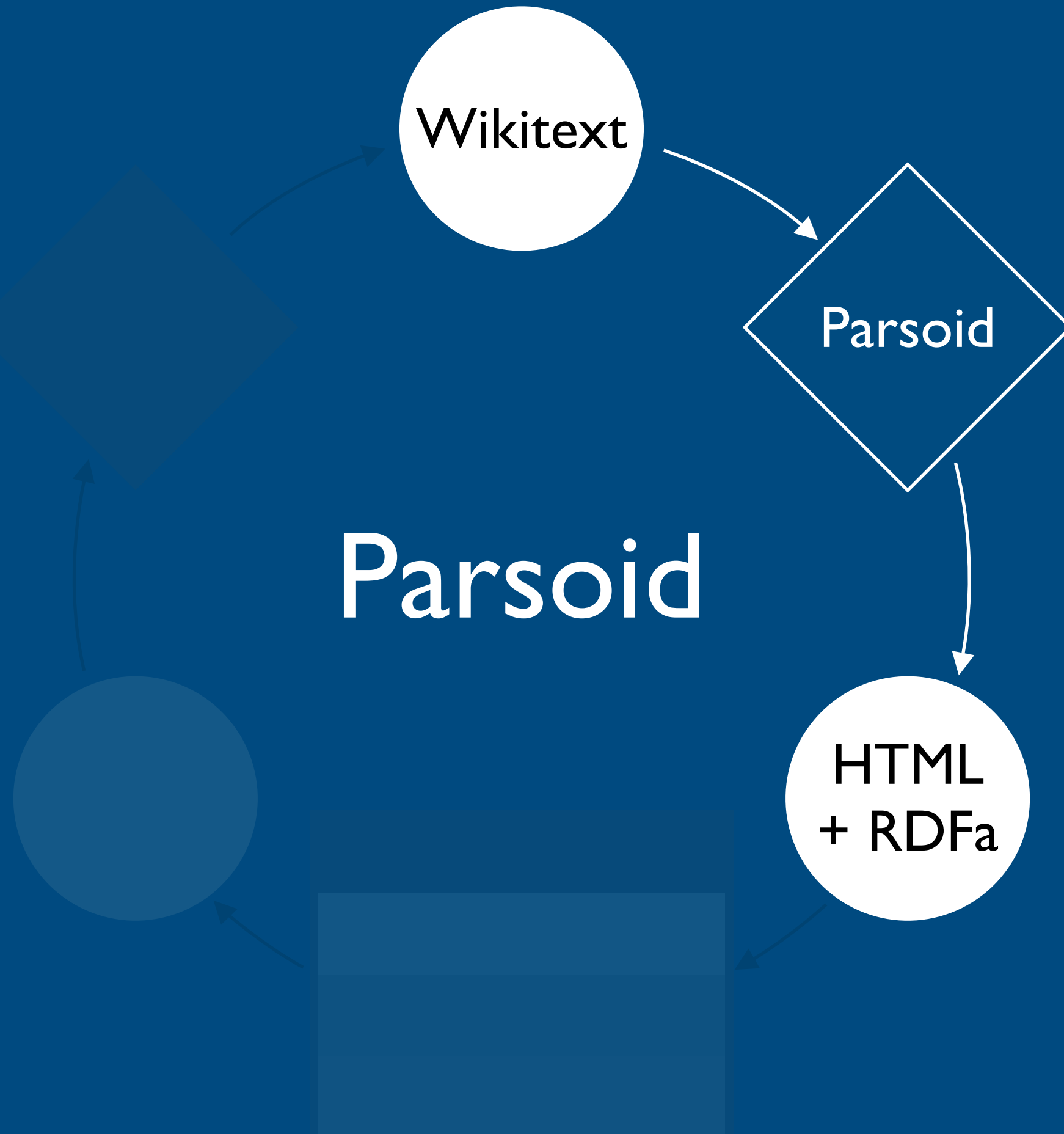
Parsoid

```
<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\\\" />\", \"dsr\": [29, 101]}\" about=\"#mwt3\">
```

```

```

```
</div>
```

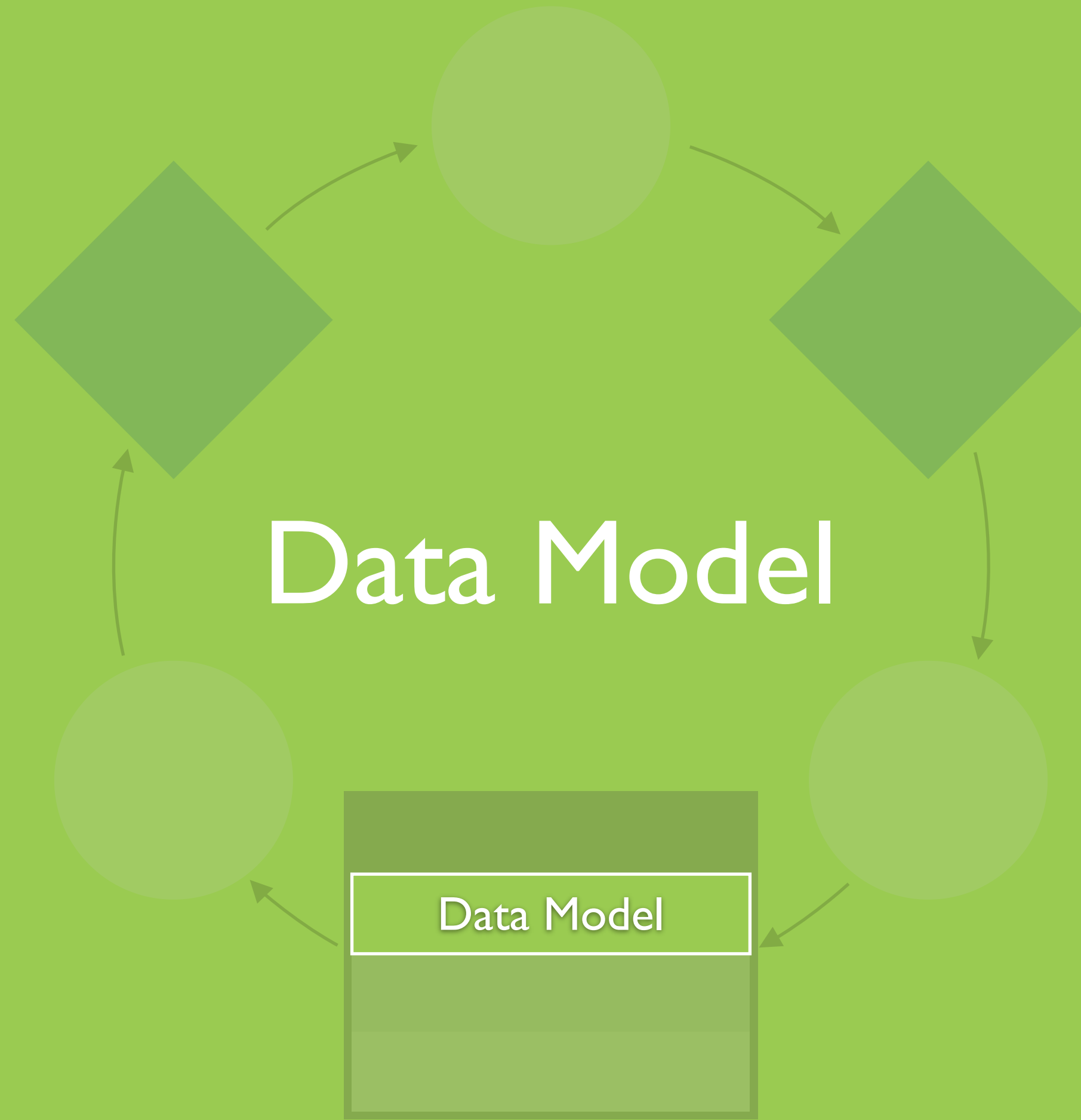
Parsoid

Wikitext

Parsoid

HTML
+ RDFa



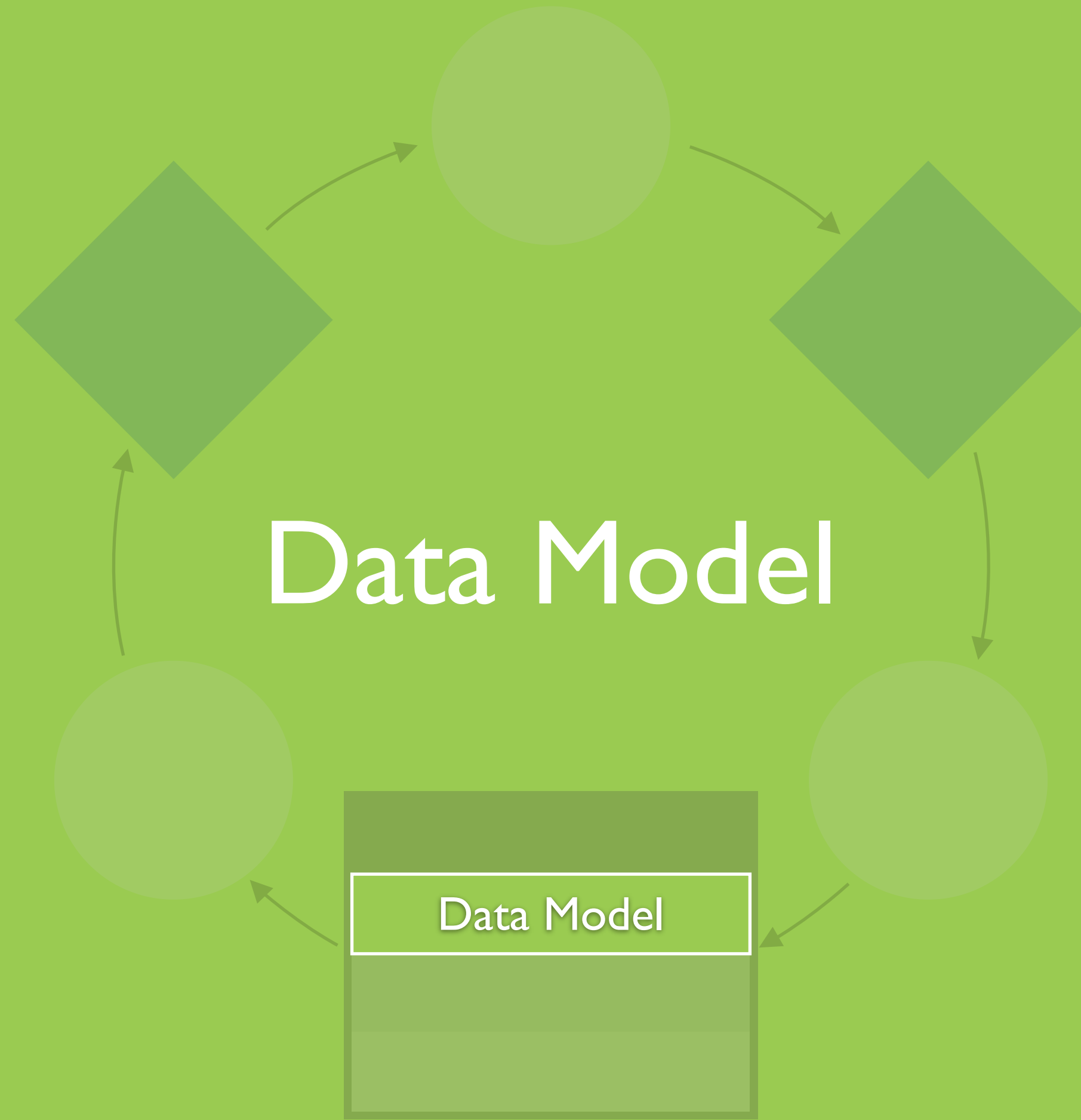


Data Model

Data Model

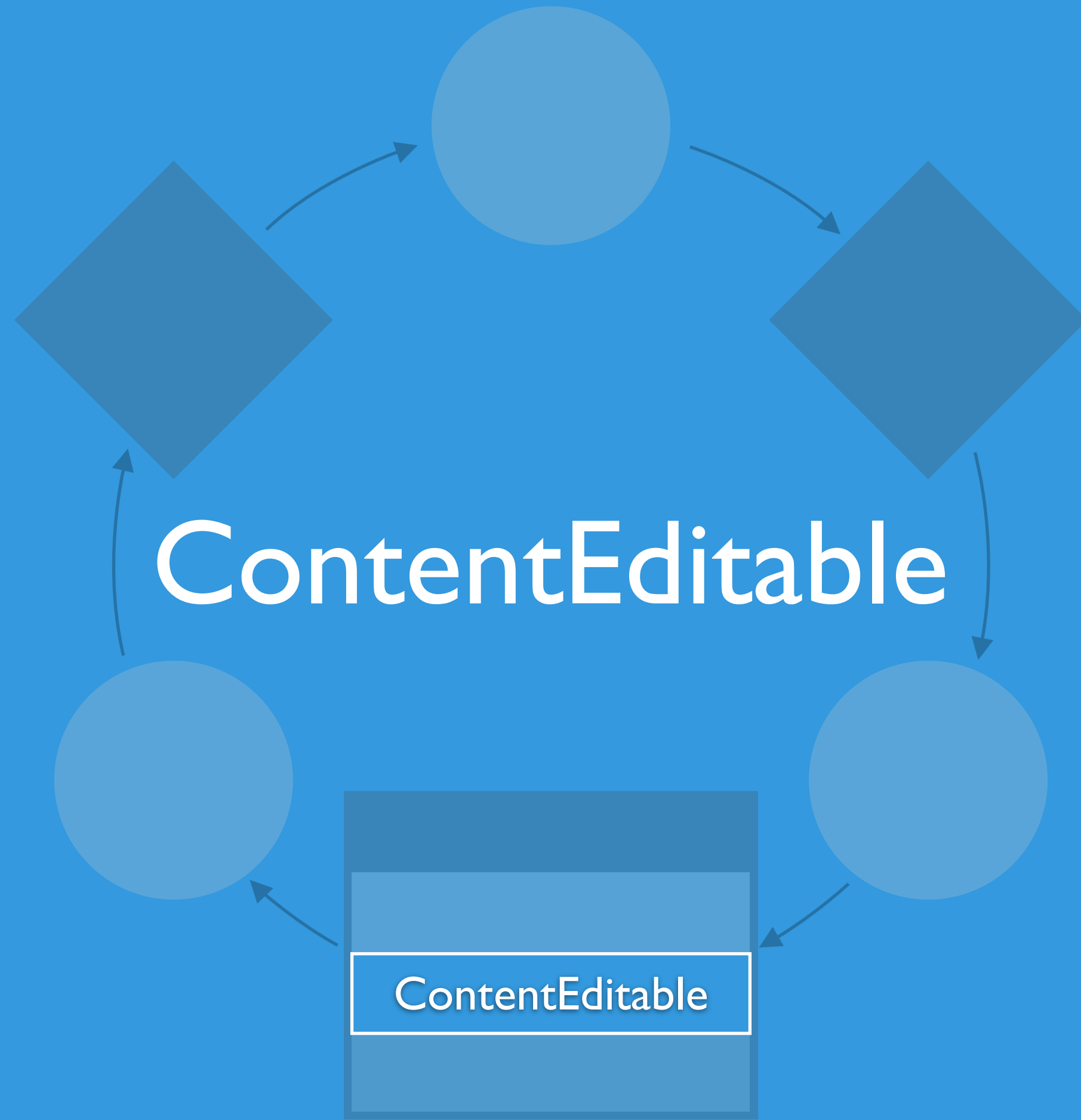
Data Model Node

- Mirrors nodes from Parsoid
- Data access API for getting and setting attributes
- Notifies **ContentEditable Nodes** when data changes
- Responsible for producing HTML for Serializer



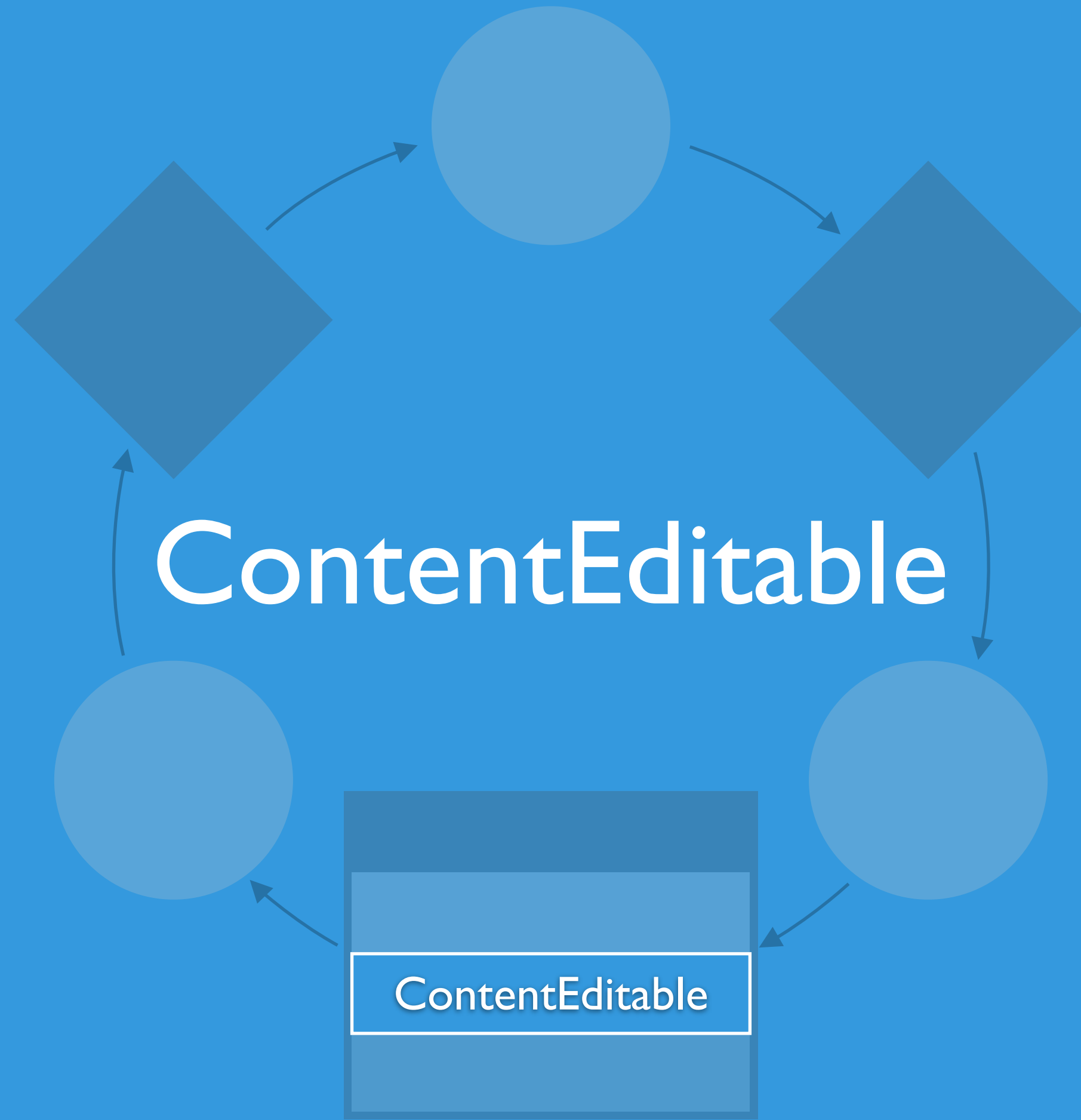
Data Model

Data Model



ContentEditable Node

- Listens to **Data Model Node**
- Handles user interaction
- Responsible for rendering elements in the editor



Let's code!

ContentEditable Mixins

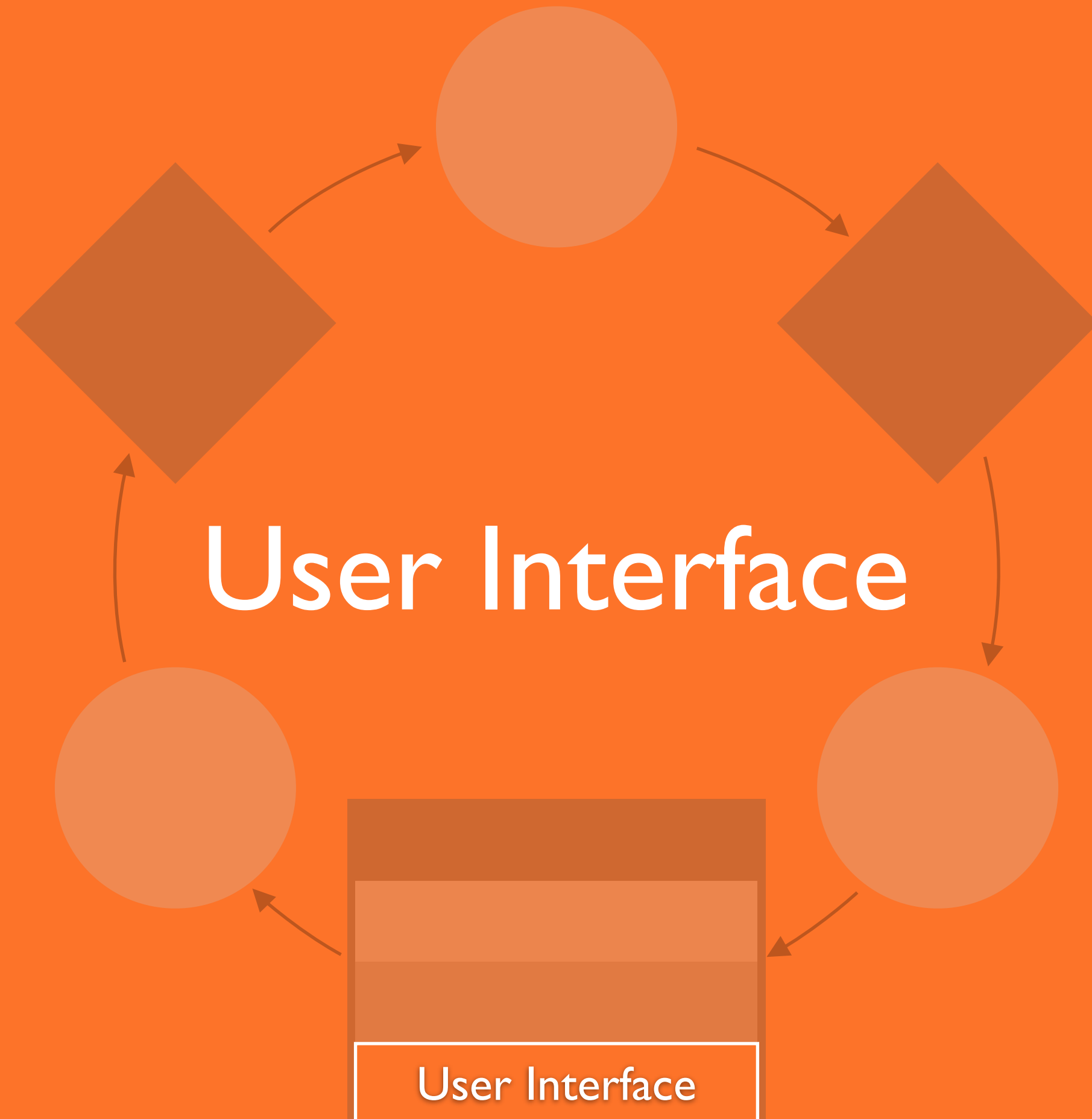
- ProtectedNode
- FocusableNode
- ResizableNode
- RelocatableNode

Let's mix!



VisualEditor

Visual Editor
Data Model
ContentEditable
User Interface

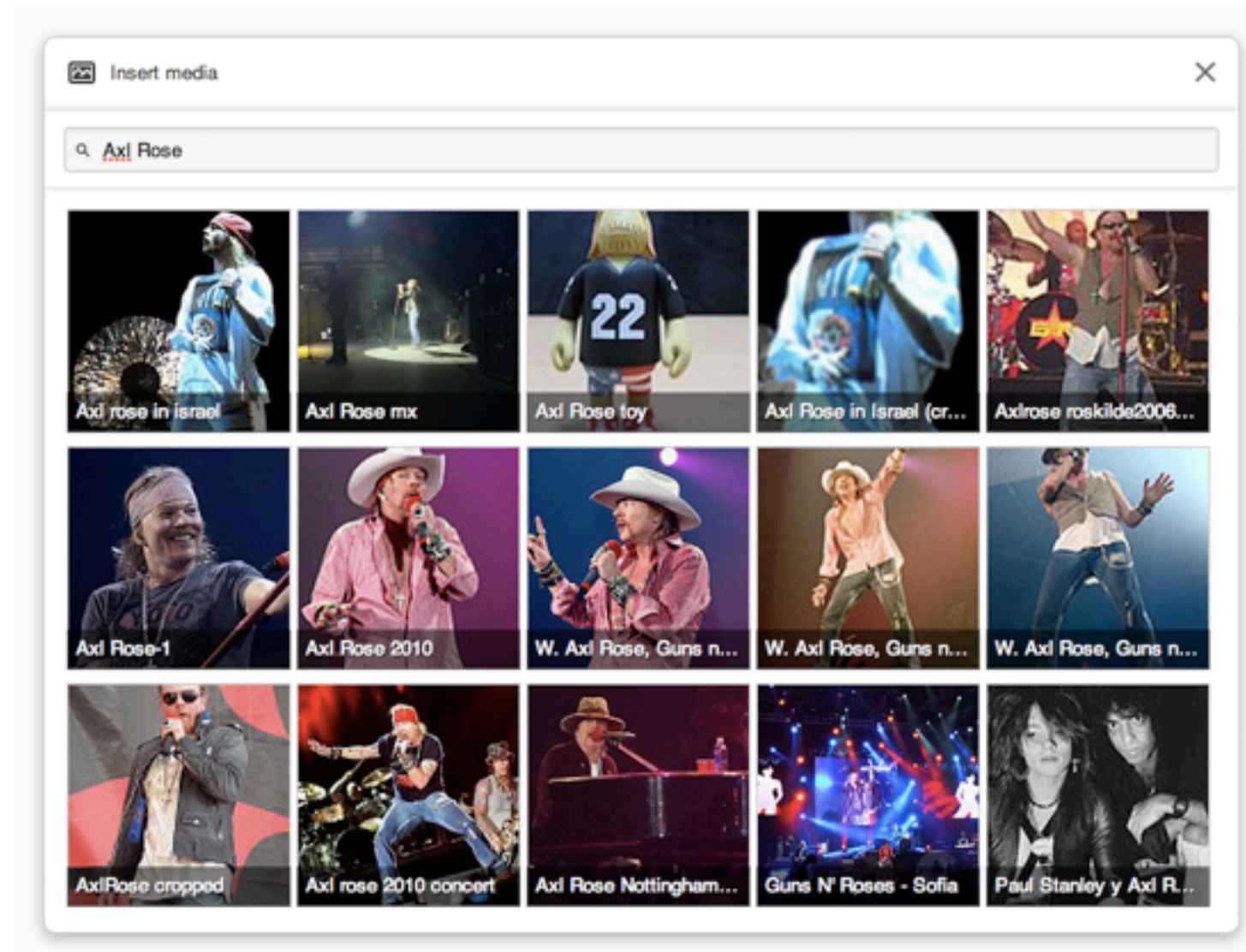


User Interface

User Interface

User Interface

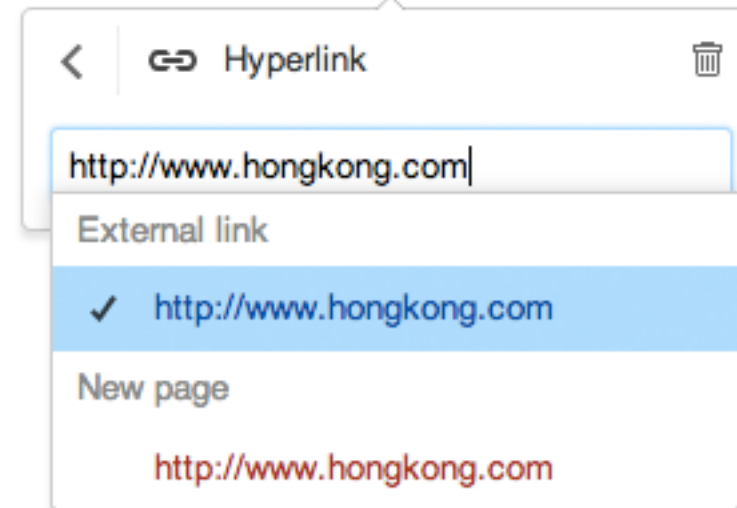
- Dialogs
- Inspectors
- Widgets



User Interface

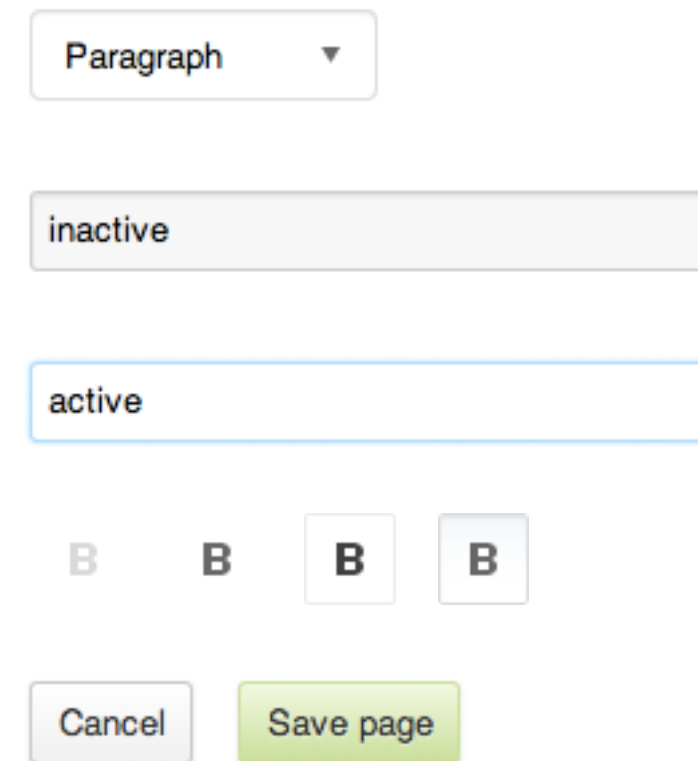
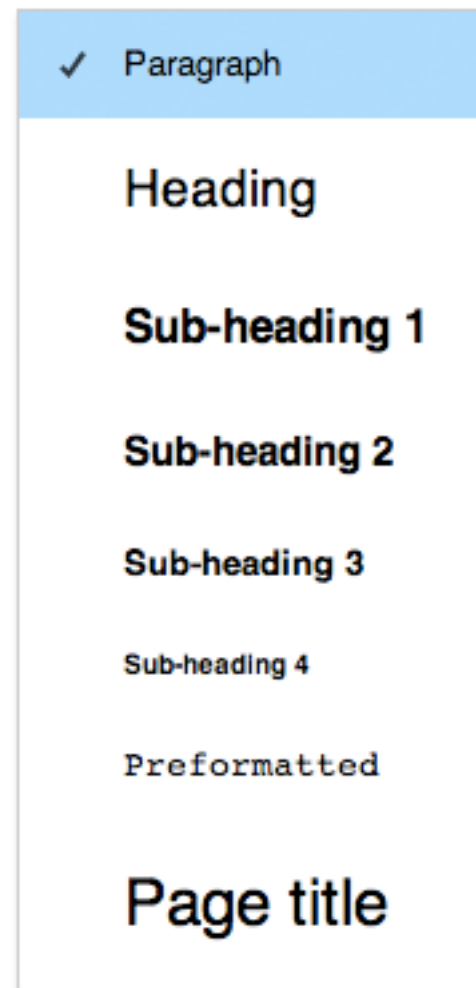
- Dialogs
- **Inspectors**
- Widgets

You should visit [Hong Kong](#). It's really fun!

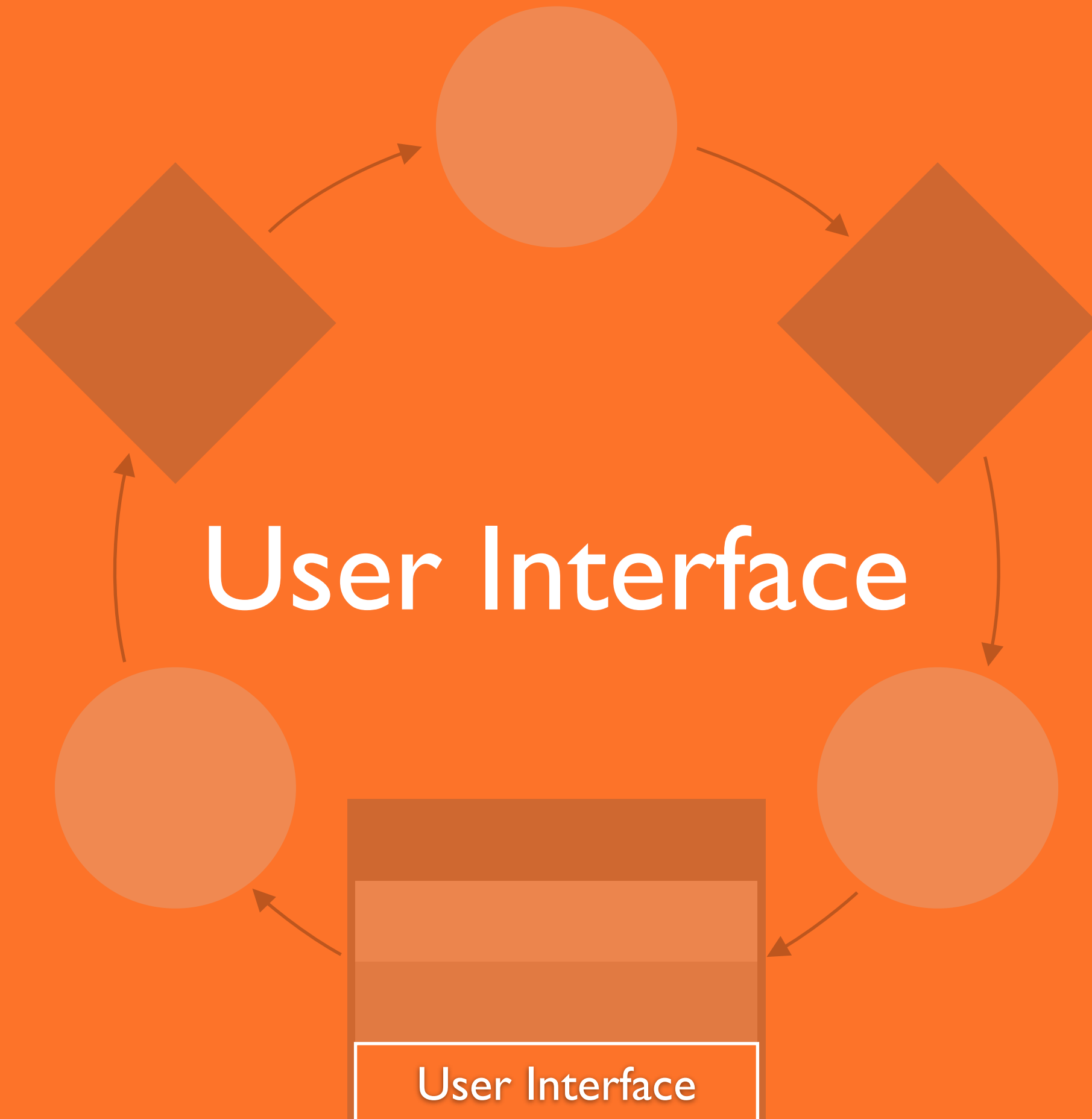


User Interface

- Dialogs
- Inspectors
- **Widgets**



Let's code!



User Interface

User Interface



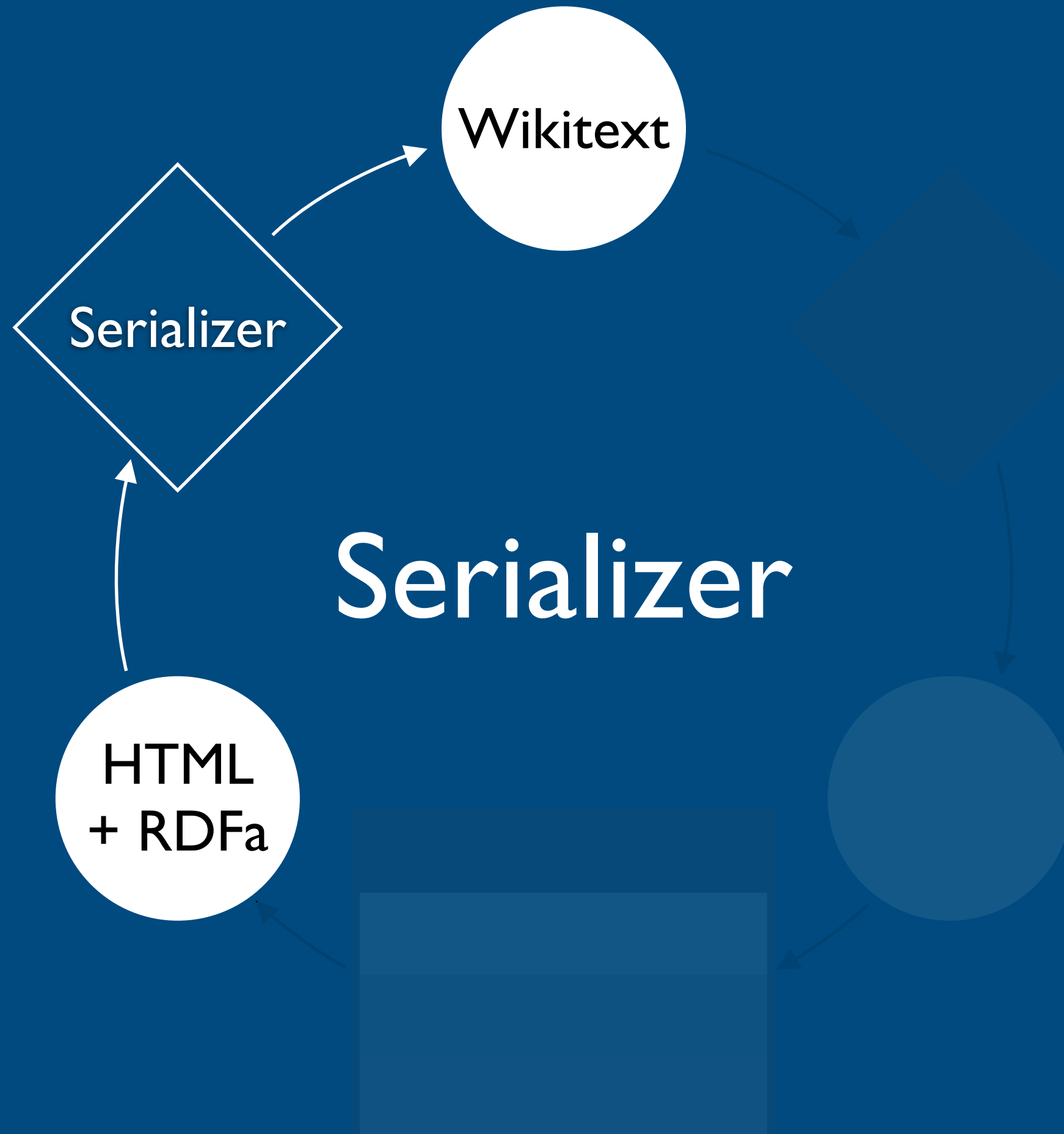
VisualEditor

Visual Editor

Data Model

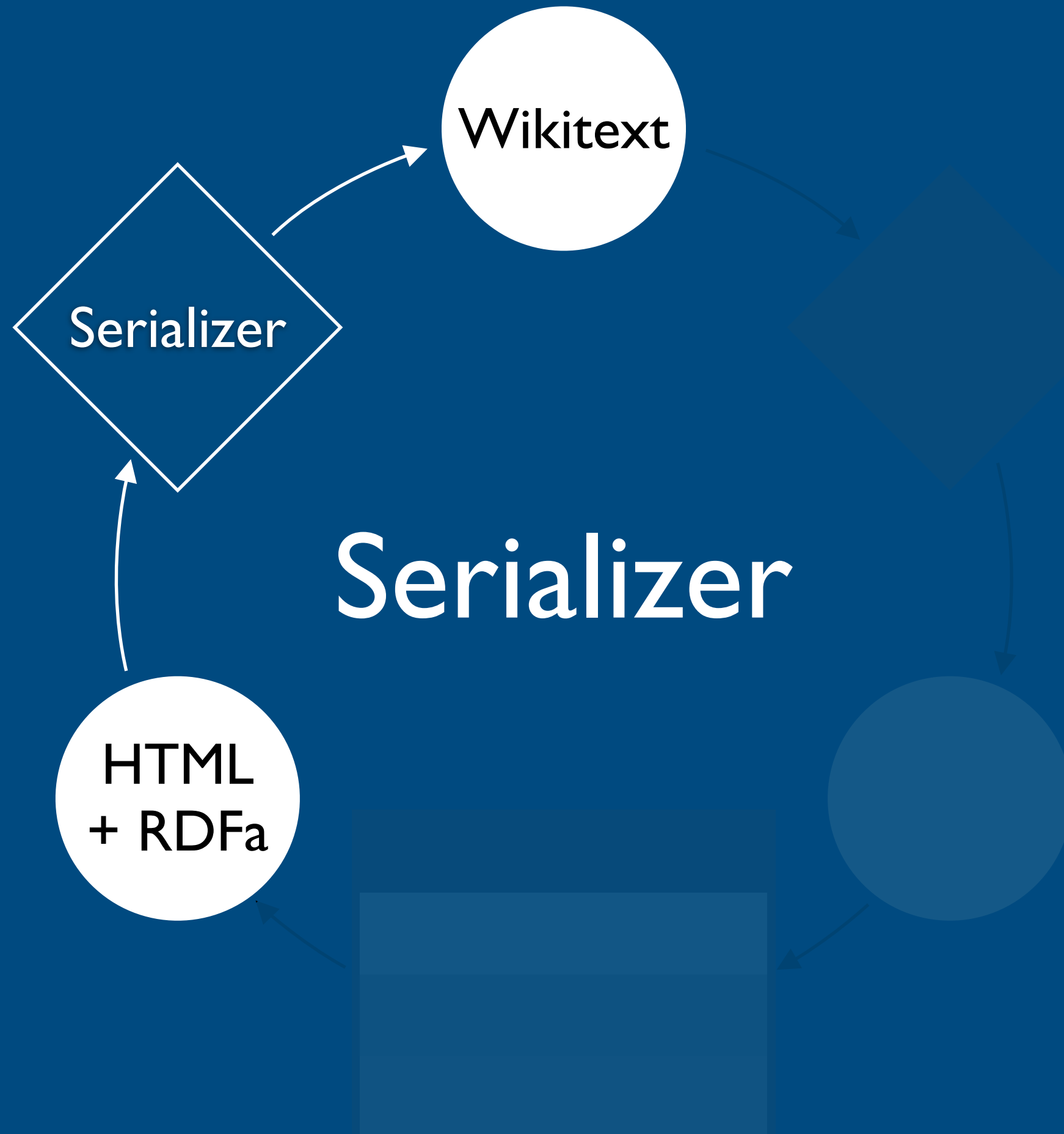
ContentEditable

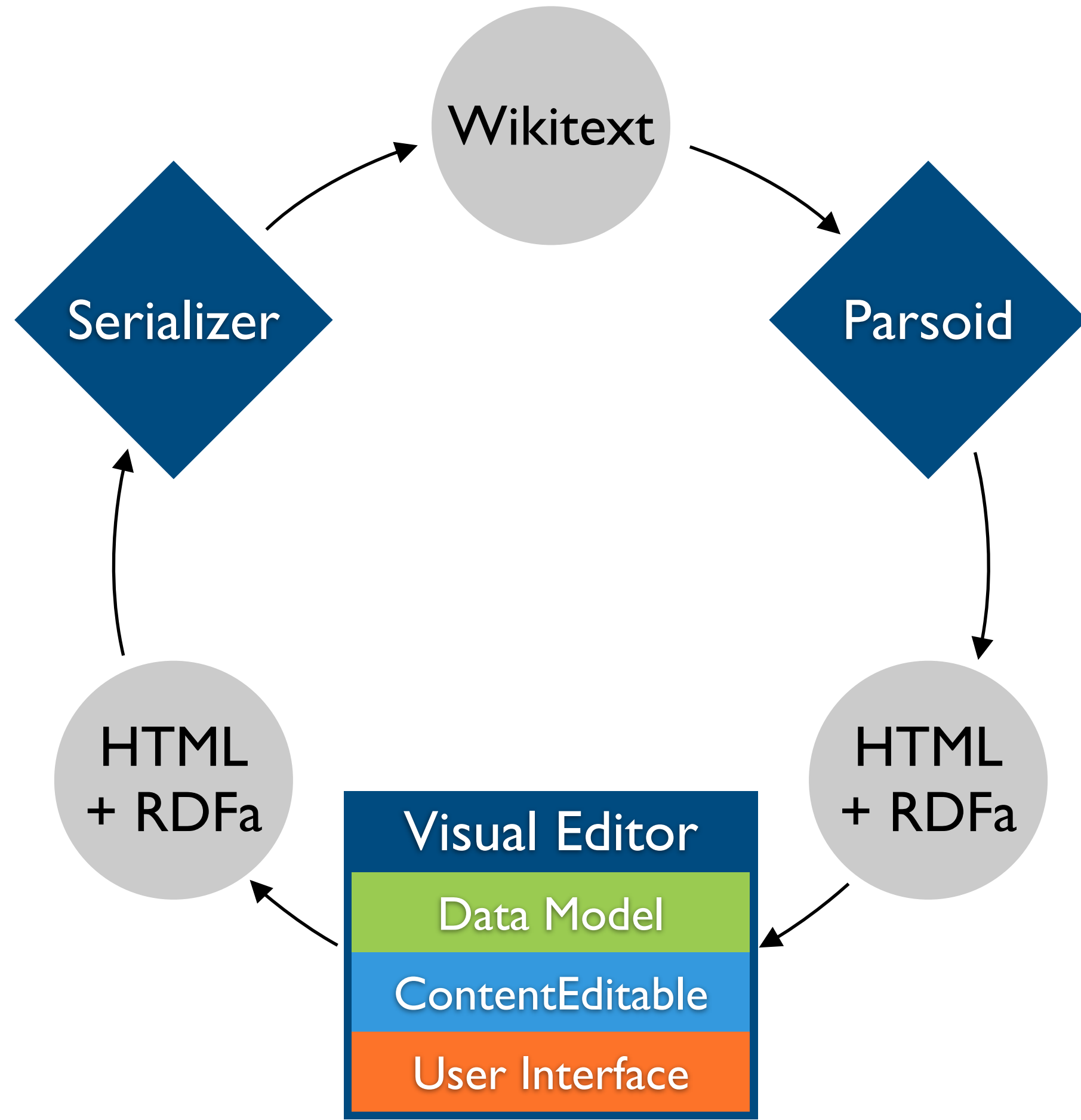
User Interface



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`



<https://github.com/wikia/gmap/>

wikiid

wikiid

- Working on Photo, Video, and Gallery plugins
- Releasing November 2013

多謝