

ResourceLoader 2

The Future of Gadgets

Roan Kattouw - [[User:Catrope]]
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What are Gadgets ?

What are Gadgets ?

- Extra functionality created by users (javascript / css)

What are Gadgets ?

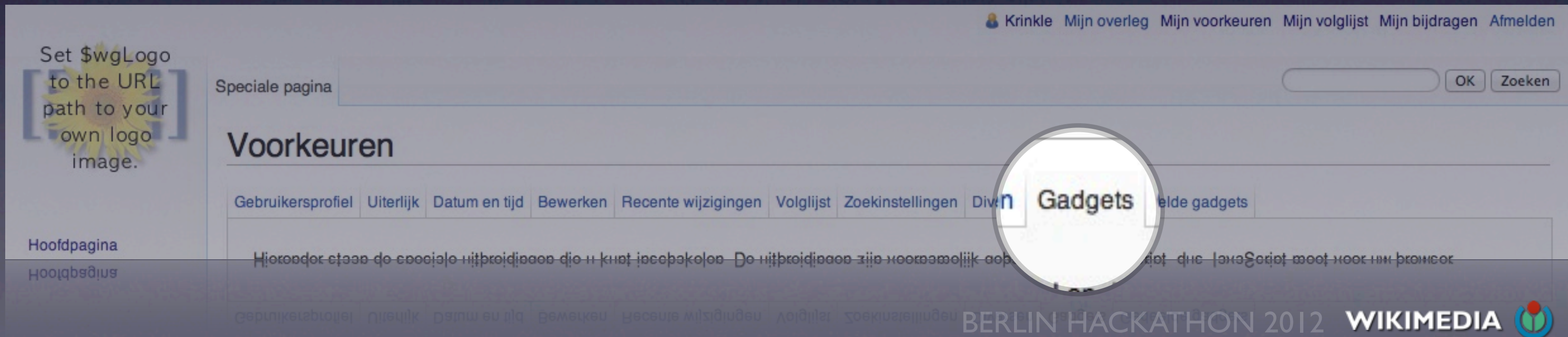
- Extra functionality created by users (javascript / css)
- Wiki pages

What are Gadgets ?

- Extra functionality created by users (javascript / css)
- Wiki pages
- Overview on [\[\[Special:Gadgets\]\]](#)

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- Extra functionality created by users (javascript / css)
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Workflow & Issues

Script creation and editing

Script creation and editing

- MediaWiki-namespace

[[MediaWiki:Gadget-Example.js]]

Script creation and editing

- MediaWiki-namespace

[\[\[MediaWiki:Gadget-Example.js\]\]](#)

- Requires 'editinterface' (administrators-only by default)

Management

Management

- Properties are stored at [\[\[MediaWiki:Gadgets-definition\]\]](#)

Management

- Properties are stored at `[[MediaWiki:Gadgets-definition]]`
- Create/remove by editing the list syntax

Management

- Properties are stored at `[[MediaWiki:Gadgets-definition]]`
- Create/remove by editing the list syntax
- Worse than wikitext

Management



The screenshot shows a web browser window with the URL `nl.wikipedia.org/w/index.php?title=MediaWiki:Gadgets-definition&action=edit`. The page title is "Bezig met bewerken van MediaWiki:Gadgets-definition". The user "Krinkle" is logged in. The page content is a list of gadgets, categorized into "Weergave" and "Hulpmiddelen".

Navigation: Bericht, Overleg, Lezen, Bewerken, Geschiedenis, Zoeken

Wikipedia Logo: De vrije encyclopedie

Geavanceerde functies: Geavanceerde functies, Speciale tekens, Hulp

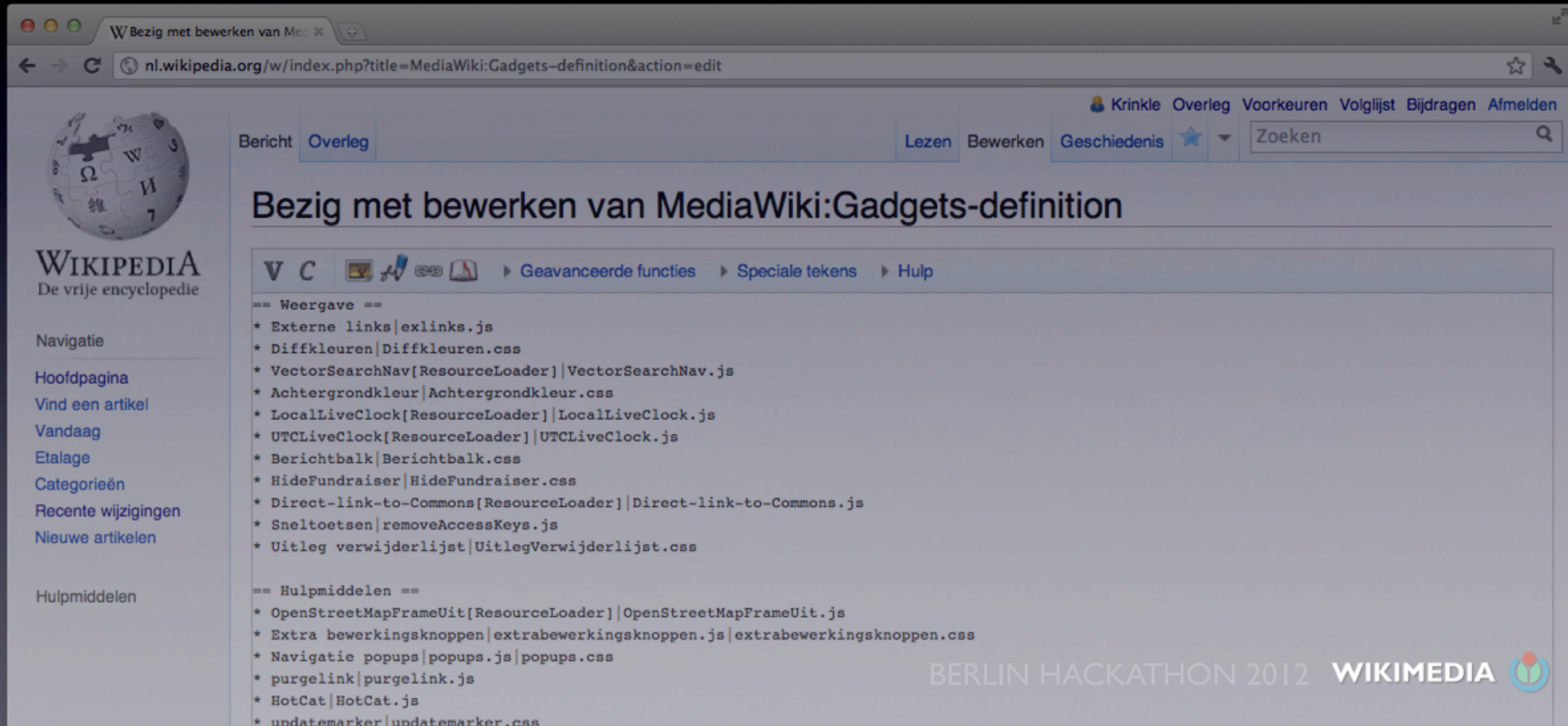
== Weergave ==

- * Externe links|exlinks.js
- * Diffkleuren|Diffkleuren.css
- * VectorSearchNav[ResourceLoader]|VectorSearchNav.js
- * Achtergrondkleur|Achtergrondkleur.css
- * LocalLiveClock[ResourceLoader]|LocalLiveClock.js
- * UTCLiveClock[ResourceLoader]|UTCLiveClock.js
- * Berichtbalk|Berichtbalk.css
- * HideFundraiser|HideFundraiser.css
- * Direct-link-to-Commons[ResourceLoader]|Direct-link-to-Commons.js
- * Sneltoetsen|removeAccessKeys.js
- * Uitleg verwijderlijst|UitlegVerwijderlijst.css

== Hulpmiddelen ==

- * OpenStreetMapFrameUit[ResourceLoader]|OpenStreetMapFrameUit.js
- * Extra bewerkingsknoppen|extrabewerkingsknoppen.js|extrabewerkingsknoppen.css
- * Navigatie popups|popups.js|popups.css
- * purgelink|purgelink.js
- * HotCat|HotCat.js
- * updatemarker|updatemarker.css

Management



The screenshot shows a web browser window with the URL `nl.wikipedia.org/w/index.php?title=MediaWiki:Gadgets-definition&action=edit`. The page title is "Bezig met bewerken van MediaWiki:Gadgets-definition". The user is logged in as "Krinkle". The page content is a list of gadgets, organized into sections: "Weergave" and "Hulpmiddelen".

Navigation: Bericht, Overleg, Lezen, Bewerken, Geschiedenis, Zoeken

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```
== Weergave ==
* Externe links|exlinks.js
* Diffkleuren|Diffkleuren.css
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* updatemarker|updatemarker.css
```


Management

nl.wikipedia.org/w/index.php?title=MediaWiki:Gadgets-definition&action=edit

Krinkle Overleg Voorkeuren Volglijst Bijdragen Afmelden

Bericht Overleg Lezen Bewerken Geschiedenis Zoeken

Bezig met bewerken van MediaWiki:Gadgets-definition

```
== Weergave ==
* Externe links|exlinks.js
* Diffkleuren|Diffkleuren.css
* VectorSearchNav[ResourceLoader]|VectorSearchNav.js
* Achtergrondkleur|Achtergrondkleur.css
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== Hulpmiddelen ==
* OpenStreetMapFrameUit[ResourceLoader]|OpenStreetMapFrameUit.js
```


Translation

Translation

- Some solutions exist,
invented by the community

Translation

- Some solutions exist, invented by the community

```
// User interface messages
msgHelp: {
  'ca': 'Llengua',
  'cs': 'Výběr jazyka',
  'da': 'Vælg sprog',
  'de': 'Sprachauswahl',
  'en': 'Language select',
  'eo': 'Lingvoelekto',
  'es': 'Seleccionar idioma',
  'et': 'Keele valimine',
  'fa': '\u0627\u0646\u062A\u062E\u0627\u0628\u0627\u0628 \u0627\u0632\u0627\u0628\u0647',
  'fi': 'Valitse kieli',
  'fr': 'Sélecteur de langue',
  'ko': '언어 선택',
  'mk': 'Јазик',
  'ml': 'ഭാഷ തിരഞ്ഞെടുക്കുക',
  'nds': 'Spraakutwahl',
  'nl': 'Taal',
  'pl': 'Wybierz język',
  'pt': 'Seleção do idioma',
  'ru': 'Выбор языка',
  'sv': 'Välj språk'
},
```

```
msgSelect: {
  'ca': 'Selecciona',
  'cs': 'Vybrat',
  'da': 'Vælg',
  'de': 'Auswählen',
  'en': 'Select',
  'eo': 'Elekti',
  'es': 'Escoger',
```

```
'es': 'Escoger',
'eo': 'Elekti',
'eu': 'selektu',
'fr': 'sélectionner',
'it': 'Scegli',
```


Translation

- Some solutions exist, invented by the community
- No native handling for localization

```
// User interface messages
msgHelp: {
  'ca': 'Llengua',
  'cs': 'Výběr jazyka',
  'da': 'Vælg sprog',
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  'ru': 'Выбор языка',
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},
```

```
msgSelect: {
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```

```
'es': 'Escoger',
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'eu': 'selektu',
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```

Sharing

Sharing

- No native way to load gadgets from another wiki

Sharing

- No native way to load gadgets from another wiki
- Community workarounds

Sharing

- No native way to load gadgets from another wiki
- Community workarounds
- Export/import feature incomplete
(requires post-import manual fix-ups)

Sharing

Sharing



**WIKIMEDIA
COMMONS**

Navigation


- Main Page
- Welcome
- Community portal
- Village pump

Message Discussion

MediaWiki:Gadget-HotCat.js

```
//<source lang="javascript">  
  
/*  
  HotCat V2.11  
  
  Ajax-based simple Category manager. Allows  
  Supports multiple category changes, as well  
  plugs into the upload form. Search engines  
  can be selected interactively.  
  
  Authors:  
  
  can be selected interactively.  
  b)nds tupo tpe n)roaq toiw' gawtsp endtues  
  gubboitca wnjct)jto c)rcadoil c)wudea' wa mej  
  v)ax-r)u)aq etub)to c)rcadoil w)w)de)l' v)to)w)
```


Sharing




Message Discussion

MediaWiki:Gadget-HotCat.js

```
//<source lang="javascript">  
  
/*  
  HotCat V2.11  
  
  Ajax-based simple Category manager. Allows  
  Supports multiple category changes, as well  
  plugs into the upload form. Search engines  
  can be selected interactively.  
  
  Authors:  
  V0.0: July 2007 - 2010-05-26: original version by [[User:  
  additions by many editors, notably [[User:Dschwen]  
  and [[[:en:User:]] No explicit license assumed on  
  copyright or other legal matters. See [[[:en:User:]]  
  V0.0: July 2007 - 2010-05-26: original version by [[User:  
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  and [[[:en:User:]] No explicit license assumed on  
  copyright or other legal matters. See [[[:en:User:]]
```

Navigation

- Main Page
- Welcome
- Community portal
- Village pump



Bericht Overleg

MediaWiki:Gadget-HotCat.js

```
//<source lang="javascript">  
  
/*  
  HotCat V2.2  
  
  Ajax-based simple Category manager. Allows adding/removing  
  Supports multiple category changes, as well as redirect an  
  plugs into the upload form. Search engines to use for the  
  can be selected interactively.  
  
  Authors:  
  V0.0: July 2007 - 2010-05-26: original version by [[User:  
  additions by many editors, notably [[User:Dschwen]  
  and [[[:en:User:]] No explicit license assumed on  
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```

Navigatie

- Hoofdpagina
- Vind een artikel
- Vandaag
- Etalage
- Coördinatie
- Eisen
- Voorpagina
- Wijzig een artikel
- Werkblad

Future

Gadgets 2.0

ResourceLoader

ResourceLoader

- Focus on front-end performance

ResourceLoader

- Focus on front-end performance
- Access to interface messages

ResourceLoader

- Focus on front-end performance
- Access to interface messages
- JavaScript libraries (jQuery & MediaWiki.js)

ResourceLoader

- Focus on front-end performance
- Access to interface messages
- JavaScript libraries (jQuery & MediaWiki.js)
- Cross-wiki modules (foreign module source)

Resource loader

```
var $button = jQuery( '<div>', {
    id: 'mw-example-button',
    text: mw.msg( 'gadget-example-button' )
} );

$button.on( 'click', function ( e ) {
    jQuery( '#mw-panel' ).fadeOut();
} );
```


Editing

Editing

- `[[MediaWiki:Gadget-Example.js]]` → `[[Gadget:Example.js]]`

Editing

- `[[MediaWiki:Gadget-Example.js]]` → `[[Gadget:Example.js]]`
- Permissions separate from MediaWiki namespace

Management

Management

- [\[\[MediaWiki:Gadgets-definition\]\]](#) → [\[\[Special:Gadgets\]\]](#)

Management

- [\[\[MediaWiki:Gadgets-definition\]\]](#) → [\[\[Special:Gadgets\]\]](#)
- [\[\[Gadget definition:Example.js\]\]](#)

Management

- [\[\[MediaWiki:Gadgets-definition\]\]](#) → [\[\[Special:Gadgets\]\]](#)
- [\[\[Gadget definition:Example.js\]\]](#)
- Permissions separate from MediaWiki namespace

Set `$wgLogo` to the URL path to your own logo image.

[Main page](#)
[Community portal](#)
[Current events](#)
[Recent changes](#)
[Random page](#)
[Help](#)

Toolbox
[Upload file](#)
[Special pages](#)

Special page

Create

Go

Search

Gadgets

Below is a list of gadgets available on this wiki. Users can enable or disable these through their [preferences page](#). This overview provides easy access to the gadget definitions and system message pages that define each gadget's description and title.

Weergave [Edit](#)

Externe links [Edit](#)

[Permalink](#)
[Export](#)
[Modify gadget](#)
[Delete gadget](#)

Open [externe links](#) in een nieuwe tab of venster. [Edit description](#)

UTC LiveClock [Edit](#)

[Permalink](#)
[Export](#)
[Modify gadget](#)
[Delete gadget](#)

Klok in de rechterbovenhoek die de huidige [UTC-tijd](#) aangeeft. [Edit description](#)

Hulpmiddelen [Edit](#)

OpenStreetMap Frame [Edit](#)

[Permalink](#)
[Export](#)
[Modify gadget](#)
[Delete gadget](#)

[Add description](#)

HotCat [Edit](#)

[Permalink](#)
[Export](#)
[Modify gadget](#)
[Delete gadget](#)

[Add description](#)

Uncategorized

Foo [Edit](#)

[Permalink](#)
[Export](#)
[Modify gadget](#)
[Delete gadget](#)

Below is a list of pages that define

- recent changes

Weergave

UTC LiveClock

Klok in de recht

Externe links

Open externe lin

Hulpmiddel

OpenStreetMap

[Add description](#)

HotCat

[Add description](#)

Uncategoriz

Foo

[Add description](#)

Editing Example:



Gadget id: example

Module properties

Scripts

Three.js × Two.js ×

Styles

Red.css × Three.css ×

Dependencies

jquery.ui.dialog × mediawiki.Title × mediawiki.util ×

Messages

monday × tuesday × wednesday × thursday × friday × saturday × sunday ×

Gadget settings

Category

Weergave ▾

Required user rights

delete × editinterface ×

Enable by default



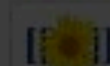
Hide gadget



Share gadget



Save gadget



Localization

Localization

- Uses MediaWiki core localization framework

Localization

- Uses MediaWiki core localization framework
- Easy access through `mw.message`

Localization

- Uses MediaWiki core localization framework
- Easy access through `mw.message`
- Basic parsing (`$1`, `{{SITENAME}}`, `{{PLURAL:}}`, ..)

Localization

- Uses `[[MediaWiki:Gadget-example-welcome]]`
Hello \$1, welcome back!

- Easy access through `mw.message`

- `[[Gadget:Example.js]]`
`mw.msg('gadget-example-welcome', mw.user.name());`
`// "Hello Krinkle, welcome back!"`

Using other modules

Using other modules

- Gadgets can “use” other modules

Using other modules

- Gadgets can “use” other modules
- Re-use commonly needed utilities

Using other modules

- Gadgets can “use” other modules
- Re-use commonly needed utilities
- Dependencies

Using other modules

- Gadgets can “use” other modules

```
var t = new mw.Title( 'image: an_example.jpg' );
```

- Re-use commonly needed utilities

```
t.getNamespacePrefix(); // “File:”
```

- Dependencies

```
t.getMainText(); // “An example.jpg”
```

```
t.getUrl(); // “/wiki/File:An_example.jpg”
```



~~Duplication~~ Sharing

Duplication Sharing

mediawiki.org

The screenshot displays the 'Editing Example' window for a gadget. The gadget ID is 'example'. The interface is divided into two main sections: 'Module properties' and 'Gadget settings'.

Module properties:

- Scripts:** Three.js ×, Two.js ×
- Styles:** Red.css ×, Three.css ×
- Dependencies:** jquery.ui.dialog ×, mediawiki.Title ×, mediawiki.util ×
- Messages:** monday ×, tuesday ×, wednesday ×, thursday ×, friday ×, saturday ×, sunday ×

Gadget settings:

- Category:** Weergave
- Required user rights:** delete ×, editinterface ×
- Enable by default:**
- Hide gadget:**
- Share gadget:**

A 'Save gadget' button is located at the bottom right of the window.

Duplication Sharing

mediawiki.org

Gadgets

Below is a list of pages that define gadgets. You can click on a gadget name to view the gadget definitions and system message.

- recent changes

Weergave

UTC LiveClock
Klok in de recht
Externe links
Open externe lin

Hulpmiddel

OpenStreetMap
Add description

HotCat
Add

Uncat

Editing Example: ×

Gadget id: example

Module properties

Scripts: Three.js × Two.js ×

Styles: Red.css × Three.css ×

Dependencies: jquery.ui.dialog × mediawiki.Title × mediawiki.util ×

Messages: monday × tuesday × wednesday × thursday × friday × saturday × sunday ×

Gadget settings


Category: Weergave ▾

Required user rights: delete × editinterface ×

Hide gadget

Share gadget

Save gadget

BERLIN HACKATHON 2012 WIKIMEDIA 

Duplication Sharing

nl.wikipedia.org



WIKIPEDIA
De vrije encyclopedie

Navigatie

[Hoofdpagina](#)
[Gebruikersportaal](#)
[In het nieuws](#)
[Recente wijzigingen](#)
[Willekeurige pagina](#)

[Hulp](#)

[Hulp](#)

[Willekeurige pagina](#)
[Recente wijzigingen](#)
[In het nieuws](#)
[Gebruikersportaal](#)

[Krinkle](#) [Mijn overleg](#) [Mijn voorkeuren](#) [Mijn volglijst](#) [Mijn bijdragen](#) [Afmelden](#)

Speciale pagina

Voorkeuren

[Gebruikersprofiel](#) [Uiterlijk](#) [Datum en tijd](#) [Bewerken](#) [Recente wijzigingen](#) [Volglijst](#) [Zoekinstellingen](#) [Diversen](#) [Gadgets](#) [Gedeelde gadgets](#)

Below is a list of gadgets from other wikis.

— Weergave —

Voorbeeld: Voorbeeld omschrijving

Voorbeeld: Voorbeeld omschrijving

Duplication Sharing

nl.wikipedia.org



WIKIPEDIA
De vrije encyclopedie

Navigatie

Hoofdpagina
Gebruikersportaal
In het nieuws
Recente wijzigingen
Willekeurige pagina

Hulp

hlp

Willekeurige pagina

Recente wijzigingen

In het nieuws

Krinkle [Mijn overleg](#) [Mijn voorkeuren](#) [Mijn volgljst](#) [Mijn bijdragen](#) [Afmelden](#)

Speciale pagina

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[Gebruikersprofiel](#) [Uiterlijk](#) [Datum en tijd](#) [Bewerken](#) [Recente wijzigingen](#) [Volgljst](#) [Zoekinstellingen](#) [Diversen](#) [Gadgets](#) [Gedeelde gadgets](#)

Below is a list of gadgets from other wikis.

Weergave

Voorbeeld: Voorbeeld omschrijving

Voorbeeld: Voorbeeld omschrijving

Demo

ResourceLoader 2

The Future of Gadgets

mediawiki.org/wiki/RL2TEST

Roan Kattouw - [[User:Catrope]]
Timo Tjihof - [[User:Krinkle]]