

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 ?

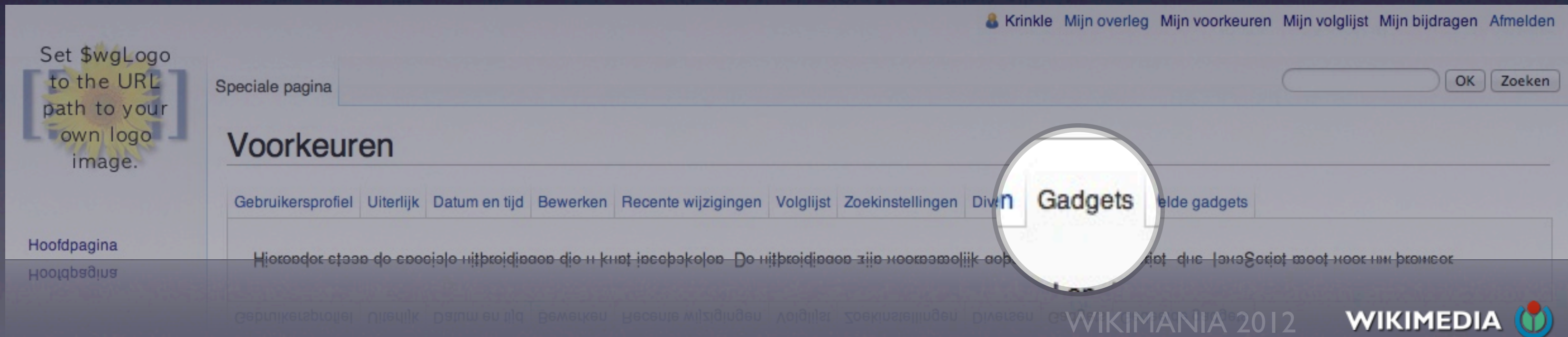
- Extra functionality created by users (javascript / css)
- Wiki pages

What are Gadgets ?

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

What are Gadgets ?

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



The screenshot shows the Wikimedia Special:Gadgets page. At the top right, there is a user profile for 'Krinkle' with links for 'Mijn overleg', 'Mijn voorkeuren', 'Mijn volgljst', 'Mijn bijdragen', and 'Afmelden'. Below this is a search bar with 'OK' and 'Zoeken' buttons. The main heading is 'Speciale pagina' followed by 'Voorkeuren'. A horizontal menu contains various options: 'Gebruikersprofiel', 'Uiterlijk', 'Datum en tijd', 'Bewerken', 'Recente wijzigingen', 'Volgljst', 'Zoekinstellingen', 'Divers', 'Gadgets', and 'Gedede gadgets'. The 'Gadgets' option is highlighted with a white circle. On the left side, there is a note: 'Set \$wgLogo to the URL path to your own logo image.' with a sun icon. At the bottom, there is a footer with 'WIKIMANIA 2012' and the 'WIKIMEDIA' logo.

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 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

Wikipedia Logo: De vrije encyclopedie

Navigation Menu: Hoofdpagina, Vind een artikel, Vandaag, Etalage, Categorieën, Recente wijzigingen, Nieuwe artikelen

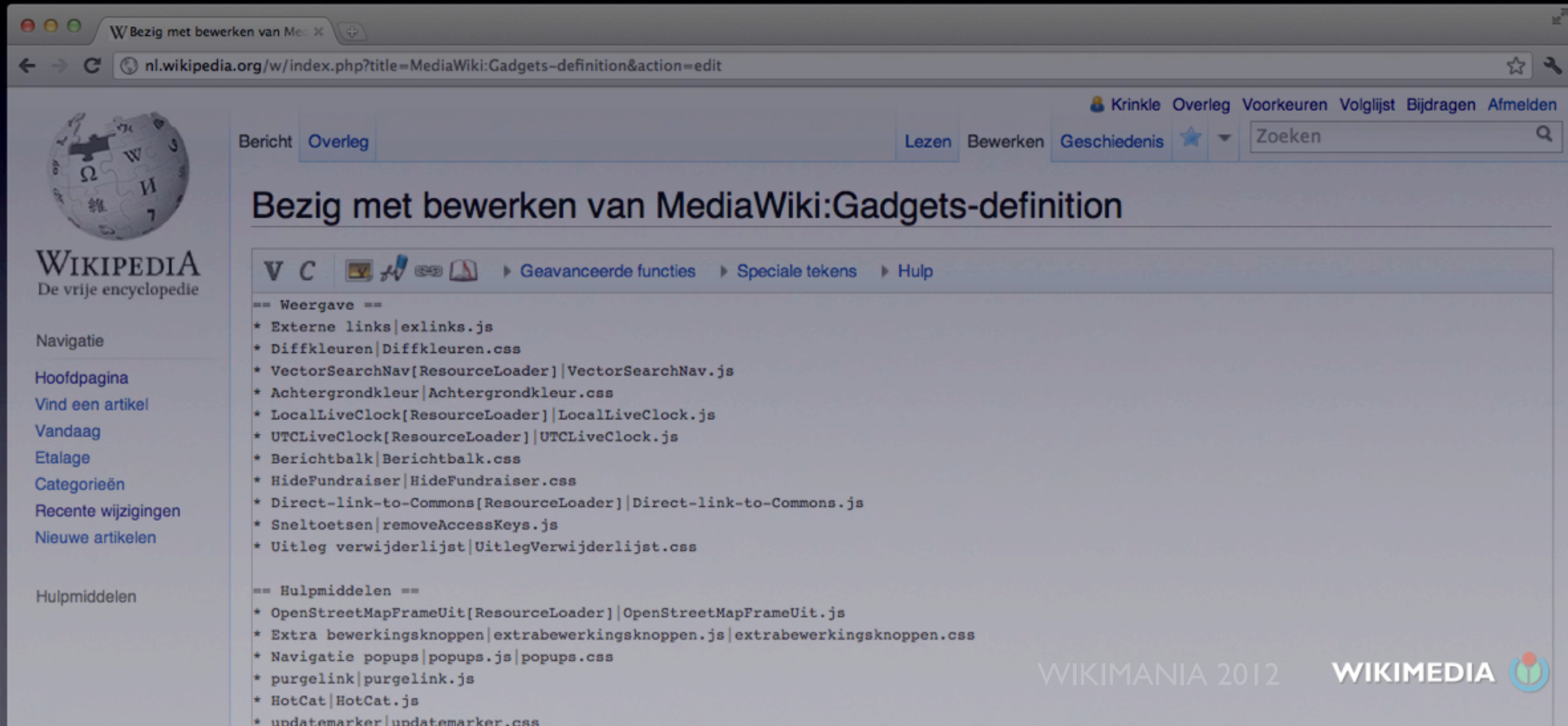
Hulpmiddelen:

- 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

User: Krinkle, Overleg, Voorkeuren, Volglijst, Bijdragen, Afmelden

Page Title: bezig met bewerken van MediaWiki:Gadgets-definition

Tools: V, C, 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

Left Sidebar:

- WIKIPEDIA De vrije encyclopedie
- Navigatie
- Hoofdpagina
- Vind een artikel
- Vandaag
- Etalage
- Categorieën
- Recente wijzigingen
- Nieuwe artikelen
- Hulpmiddelen

Bottom Right: WIKIMANIA 2012, WIKIMEDIA

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
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* Sneltoetsen|removeAccessKeys.js
* Uitleg verwijderlijst|UitlegVerwijderlijst.css

== 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 \u0632\u0628\u0627\u0646\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': 'Escoder',
'eo': 'Ejekt',
'eu': 'selekt',
'fr': 'yngmmpjeu',
'fr': 'aktâ'
```


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



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:
```

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
    en:User:]]
    V0.0: 2007 - 2010-02-28: original version by [[User:
    additions:
```

Navigatie

- Hoofdpagina
- Vind een artikel
- Vandaag
- Etalage
- Сәтләгән
- Είδη
- Λευκάδι
- Λινά και σίτες
- Μουσεία

Future

Gadgets 2.0

ResourceLoader

ResourceLoader

- Focus on front-end performance

ResourceLoader

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

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- 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 [input] Create [input] 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



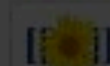
Hide gadget



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”
```

~~Duplicatie~~ Delen

Duplicatie Delen

mediawiki.org

Gadgets

Below is a list of pages that define gadget definitions and system message

- recent changes

Weergave

UTC LiveClock
Klok in de recht

Externe links
Open externe lin

Hulpmiddelen

OpenStreetMap
Add description

HotCat Edit
Add description

Uncategoriz

Example gadget editing interface:

Editing Example: [Close]

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](#)

Example gadget actions: [Link](#) [Export](#) [Modify gadget](#) [Delete gadget](#)

Duplicatie Delen

mediawiki.org

Gadgets

Below is a list of pages that define 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

WIKIMANIA 2012 WIKIMEDIA 

Duplicatie Delen

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

WIKIMANIA 2012

WIKIMEDIA 

Duplicatie Delen

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

Voorkeuren

[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

WIKIMANIA 2012

WIKIMEDIA

Demo

ResourceLoader 2

The Future of Gadgets

mediawiki.org/wiki/RL2TEST

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