
sphinx-revealjs Documentation

Release 2.0.0

Kazuya Takei

Jul 30, 2022

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`sphinx-revealjs` is Sphinx extension to generate Reveal.js presentation documents from **standard** reStructuredText.

BASIC FEATURES

- Nested sections
- Speaker note
- Syntax highlight for Reveal.js (not used pygments)
- Customize slides and sections by conf.py or source reST

DEMO

- Source: Sphinx document
- Created: Reveal.js presentation

```
=====
sphinx-revealjs
=====

.. revealjs_slide::

    {
        controls: true,
        progress: true,
        history: true,
        center: true,
        transition: "slide",
        dependencies: [
            { src: "{{ pathto('_static/revealjs/plugin/notes/notes.js', 1) }}" , async: true },
            { src: "{{ pathto('_static/revealjs/plugin/highlight/highlight.js', 1) }}" , async: true, callback: function()
        ]
    }

:Based version: 0.9.0
:Released: 2019-12-22

Overview
=====

What is this?
-----

Sphinx extension to build Revealjs presentation

Features
-----

.. This is reST comment. Render into speaker note section

* Convert sections from reStructuredText directly
* Select theme from default themes

Convert sections from reStructuredText directly
=====

Adjust section structure
```

sphinx-revealjs

Based version:
0.9.0

Released:
2019-12-22

CONCEPT AND MOTIVATION

Goal of this library is to provide presentation platform for self-branding of engineer using Sphinx. Using static site hosting service, you can show own presentations to anyone.

Core motivation is that I want to play presentation by this library.

CONTENTS

4.1 Setup

4.1.1 Requirements

`sphinx-revealjs` requires Python 3.6+ and Sphinx.

Current development environment

- Python: 3.10.4
- Sphinx: 4.3.2

4.1.2 Installation

You can install `sphinx-revealjs` from PyPI.

```
$ pip install sphinx-revealjs
```

`sphinx-revealjs` specify Sphinx and docutils expressly as dependencies. You get Sphinx by this command only.

4.1.3 Configuration

`sphinx-revealjs` does not provide `revealjs` builder instead of `html` builder. To use builder, edit your `conf.py`.

```
extensions = [  
    "sphinx_revealjs",  
]
```

if you want to configure more, edit `conf.py` with seeing *Configurations*.

4.1.4 Build

Run make command to build presentations. Files are generated to **revealjs** folder.

```
$ make revealjs
```

You can generate all pages as `index.html` to use `dirrevealjs`.

```
make dirrevealjs
```

4.2 Upgrading guide

4.2.1 Upgrading from 0.x to 1.x

From version 1.x, this bundle Reveal.js 4.x, and implement for it. Due it, documentations for old version does not work to build correctly.

You have to lock version, or migrate source for next version.

Configurations

revealjs_script_plugins

Reveal.js 4.x has big changes for usage of plugins from 3.x.

sphinx-revealjs is also adjust for this changes, and need update `revealjs_script_plugins`.

```
revealjs_script_plugins = [  
  {  
+   "name": "RevealNotes",  
+   "src": "revealjs4/plugin/notes/notes.js",  
-   "src": "revealjs/plugin/notes/notes.js",  
  },  
  {  
+   "name": "RevealHighlight",  
+   "src": "revealjs4/plugin/highlight/highlight.js",  
-   "src": "revealjs/plugin/highlight/highlight.js",  
-   "options": ""  
-   {async: true, callback: function() { hljs.initHighlightingOnLoad(); } }  
-   ""  
  },  
]
```

- Changed structure from `src` and `options` to `src` and `name`.
 - For 4.x, to use plugin for core, add class name of it not source path, and need to preload source by `script` tag.
 - Class name is defined in plugin source. You need find from source or ref documents (official plugin only)
 - In adding, does not accept options for plugins.

MORE: See [Using Plugins](#) from Reveal.js document

revealjs_css_files

If you use highlight plugin and specify bundled stylesheet file, change path of stylesheet. Style files is migrated to highlight plugin folder.

- Before: revealjs/lib/css/zenburn.css
- After: revealjs4/plugin/highlight

4.2.2 Upgrading from 1.x to 2.x

From 2.x, some features are removed because splitted other extensions or duplicated behaviors. If you want to use new version by documentation using 1.x, you should upgrade project files.

Fonts

sphinx-revealjs does not support font configuration features to provide features as “Presentation tools”.

If you want to use Google Fonts

You can add CSS URL into revealjs_css_files directly.

```
revealjs_css_files = [
    "https://fonts.googleapis.com/css2?family=Noto+Sans+JP",
    "css/custom.css",
]
```

Example of css/custom.css.

```
.reveal *, .reveal h1, .reveal h2, .reveal h3, .reveal h4, .reveal h5, .reveal h6 {
    font-family: 'Noto Sans JP', sans-serif;
}
```

Use googlefonts-markup

If you want to write only font-family, use googlefonts-markup.

```
from googlefonts_markup import Font

revealjs_css_files = [
    Font(family_name="Noto Sans JP").css_url(),
    "css/custom.css",
]
```

Change using Google Fonts per presentations

You need to create custom theme per presentations.

```
# Define default theme
revealjs_style_theme = "black"
```

```
====
Title
====
```

```
.. Set `revealjs-slide/theme` to override theme

.. revealjs-slide::
   :theme: "css/theme-for-this-presentation.css"
```

Speaker Views

New configuration `revealjs_notes_from_comments` are defined. But, because default values is False, your presentation not write speaker-note when you upgrade sphinx-revealjs

Replace reveajs-notes(recommended)

You can replace `revealjs-notes` from comment-block. And you can use comment-block as COMMENT(does not write as content from source).

Before:

```
.. This is 1.x style speaker-view content
```

After:

```
.. revealjs-notes::

   This is 1.x style speaker-view content
```

Configuration for compatible behaviors

You can set True `revealjs_notes_from_comments` to use behaviors of ver 1.x.

```
revealjs_notes_from_comments = True
```


Configurations

html_js_files/revealjs_js_files

sphinx-revealjs does not ref `html_js_files` as list of additional JavaScript files. It refer only `revealjs_js_files`.

You must do one of these.

- Copy needy values of `html_js_files` to `revealjs_js_files`
- Sync `html_js_files` to `revealjs_js_files` (ex: `revealjs_js_files = html_js_files`)

revealjs_use_index

sphinx-revealjs does not generate `genindex.html` (list of in vals) on default. If you want `genindex.html` for Reveal.js builder, you muse set `True`.

Directives

sphinx-revealjs defines kebab-cased directives only, and removed snake-cased directives. You must replace cases to run by 2.x.

Before	After
<code>revealjs_break</code>	<code>revealjs-break</code>
<code>revealjs_fragments</code>	<code>revealjs-fragments</code>
<code>revealjs_section</code>	<code>revealjs-section</code>
<code>revealjs_slide</code>	<code>revealjs-slide</code>

4.3 Configurations

sphinx-revealjs can build multiple presentations. You can configure in `conf.py` for all presentations.

4.3.1 Basic configurations

`revealjs_static_path`

Type
list

Default
[] (empty)

Example
["_static"]

List of static files directory (same as `html_static_path`)

`revealjs_js_files`

Type
list

Default

[] (empty)

Example

```
["custom.js"]
```

List of using custom css (same as `html_js_files`).

When you want to use JS that does not related revealjs, can use this.

revealjs_css_files

Type

list

Default

[] (empty)

Example

```
["custom.css"]
```

List of using custom css (same as `html_css_files`).

If you want to customize presentation by CSS, write external css and use it.

revealjs_use_index

Type

bool

Default

False

Flag that does builder generate `genindex.html` (same as `html_use_index`).

4.3.2 Style Configurations

revealjs_style_theme

Type

str

Default

black

Example

```
moon, custom.css
```

Theme name of stylesheet for Reveal.js.

- If value does not have suffix `.css`, use bundled Reveal.js theme(included `revealjs/css/theme`).

4.3.3 Presentation Configurations

revealjs_use_section_ids

Type
boolean

Default
False

If this is set True, inject id attribute into section element (parent of headerings). This means that change format of internal links (default is numbering style).

revealjs_script_files

Type
List[str]

Default
[]

Example
["presentation.js"]

List of sources that render as script tags.

There is bundled Reveal.js script at revealjs/js/reveal.js.

Example:

```
<div>
  <!-- Presentation body -->
</div>
<!-- here!! -->
<script src="_static/revealjs/js/revealjs.js"></script>
<script src="_static/presentation.js"></script>
```

revealjs_script_conf

Type
str or dict

Default
None

Configuration of Reveal.js presentation. This value is used as options of `Reveal.initialize` in output files.

- If value is string type, handle as raw javascript code.
- If value is dict object, convert to json string at internal.

Example 1: case of str

```
revealjs_script_conf = """
{
  controls: false,
  transition: 'zoom',
}
"""
```

```
<div>
  <!-- Presentation body -->
</div>
<script src="_static/revealjs/js/revealjs.js"></script>
<!-- here!! -->
<script>
  let revealjsConfig = {};
  revealjsConfig = Object.assign(revealjsConfig, {
    controls: false,
    transition: 'zoom',
  });
  revealjs.initialize(revealjsConfig);
</script>
```

Example 2: case of dict

```
revealjs_script_conf = {
  "controls": False,
  "transition": "zoom",
}
```

```
<div>
  <!-- Presentation body -->
</div>
<script src="_static/revealjs/js/revealjs.js"></script>
<!-- here!! -->
<script>
  let revealjsConfig = {};
  revealjsConfig = Object.assign(revealjsConfig, JSON.parse('{"controls": false,
  ↪"transition": "zoom"}'));
  revealjs.initialize(revealjsConfig);
</script>
```

example 1 and 2 are behaving same.

revealjs_script_plugins

Type

List[Dict]

Default

[]

List of plugin configurations. If this value is set, render script tag after source script tags.

There are bundled Reveal.js plugins at revealjs/plugin.

Example:

```
revealjs_script_plugins = [
  {
    "src": "revealjs4/plugin/highlight/highlight.js",
    "name": "RevealHighlight",
  },
]
```

```
<div>
  <!-- Presentation body -->
</div>
<script src="_static/revealjs/js/revealjs.js"></script>
<script src="_static/revealjs/plugin/highlight/highlight.js"></script>
<!-- here!! -->
<script>
  let revealjsConfig = {};
  revealjsConfig.plugins = [RevealHighlight,];
  revealjs.initialize(revealjsConfig);
</script>
```

revealjs_notes_from_comments

Type
boolean

Default
False

If this is set *True*, builder writes notes section from comment block.

4.3.4 Font configurations

Note: These configurations will be dropped when version 2.x.

You can use raw CSS or `googlefonts-markup` instead of these.

revealjs_google_fonts

Type
dict

Default
[]

Example
[]

List of using fonts from [Google Fonts](#). If this value is set, render `link` and `style` tags into html.

revealjs_generic_font

Type
str

Default
sans-serif

Example
serif, monospace

If you use `revealjs_google_fonts`, set last of `font-family` style.

4.4 Directives

sphinx-revealjs provides some directives to customize presence and behaviors.

4.4.1 For customize presentation

Sphinx can manage multiple documents, so that sphinx-revealjs can build multiple presentation slides.

If you want to configure one presentaion from some, use this directive into your source.

.. revealjs-slide::

Write revealjs-slide directive on directly below of title header.

Note: Directive based customize has options less than conf based because implementation restrict.

:theme: (string)

Override revealjs_style_theme.

:google_font: (string)

Override revealjs_google_fonts, but it can specify only one.

:conf: (JSON-string or no-value)

Override revealjs_script_conf, but single line only.

Usage:

```
Presentation title
```

```
=====
```

```
.. revealjs-slide::
```

```
  :theme: moon
```

```
Section
```

```
-----
```

```
Content
```

4.4.2 For customize sections

If you want to change behavior of sections, use these directives.

.. revealjs-section::

To change behavior per section, write directive per section.

:data-XXX:

This directive can accept attribute as same as Reveal.js section tags.

Usage:

Write revealjs-slide directive on directly below of section title header.

```

Title
=====

Section
-----

.. revealjs-section::
   :data-background-color: #009900

```

.. revealjs-break::

If you want to transition section with keeping title, revealjs-break can use.

Usage:

Write revealjs-break to point of want to split section.

```

Title
=====

Section
-----

Content 1

.. revealjs-break::

Content 2(next slide)

```

:data-XXX:

It accepts attributes as same as revealjs-section.

:notitle:

If it is set in directive, next section page does not display title.

4.4.3 For interactive contents

.. revealjs-code-block::

This is extends of `code-block` directive for presentation.

If you want to use `data-line-number` attributes in code-block.

:data-line-numbers: (string or no value)

Code highlighting pattern. See [Reveal.js document](#)

Example:

```

.. revealjs-code-block:: python
   :data-line-numbers: 1

   def hello():
       print("world")

```

`.. revealjs-fragments::`

Note: There are cases not working regular.

Inject fragment attribute into objects. Referer to “Fragments” from Reveal.js

Example:

Write block as directive that you want to present as fragments.

```
.. revealjs-fragments::  
  
   * First  
   * Second  
   * Third
```

See [demo](#)

`.. revealjs-notes::`

When you write this section, inner text are as content of [Speaker View](#).

If you write some directives on same-level, Reveal.js uses first directive only.

Note: You must be careful for comment block when you set `revealjs_notes_from_comments` in `conf.py`. Reveal.js recognizes first `<aside>` element as content of speaker-view, so you may not see directive content as notes.

Example:

```
.. revealjs-notes::  
  
   This content output into <aside> element on <section>.
```

4.5 Using examples

4.5.1 List

Customizing design simply

When using bundled theme, you can customize design by adding custom CSS.

Example: Disable transform style in header text

Some of reveal.js bundled themes (ex: `black`) set uppercase in `text-transform` of heading texts. You can add extra custom CSS to use other settings.

Source

Listing 1: `conf.py`

```
revealjs_css_files = [  
    "revealjs4/plugin/highlight/zenburn.css",  
    "custom.css",  
]
```

Listing 2: `custom.css`

```
.reveal h1, .reveal h2, .reveal h3, .reveal h4, .reveal h5, .reveal h6 {  
    text-transform: none;  
}
```

4.6 Changelog

4.6.1 ver 2.0.0

date
2022-05-31

base
Reveal.js 4.3.1

Added Features

- Directive `revealjs-notes` writes speaker-view content into presentation
- Config `reveajs_notes_from_comments` toggle if it creates speaker-view content from comment-block
 - BREAKING CHANGE: Default value is `False`. You must set `True` explicitly to use as same as ver 1.x
- Config `reveajs_use_index` toggle if it creates `genindex.html`
 - BREAKING CHANGE: Default value is `False`. You must set `True` explicitly to use as same as ver 1.x

Fixes

- Register data-XXX attributes into revealjs-section and revealjs-break from <https://revealjs.com/>

Deleted features

- Remove snake-cased directives
- Does not generate search.html

4.6.2 Old versions

Version 1.x

ver 1.5.3

date
2022-06-02

base
Reveal.js 4.3.1

Fixes

- All nodes for sphinx-revealjs does not write anything when none revealjs builder works.

ver 1.5.2

date
2022-04-29

base
Reveal.js 4.3.1

Fixes

- Work revealjs-break directive in dirrevealjs builder (#109)
- Inherit behavior of any nodes from html builder to dirrevealjs builder (#108)

Deprecated

Mark as deprecated(logging.warning) to drop at version 2.x (updated from v1.5.0)

- Snake-cased directive (revealjs_slide, revealjs_section and revealjs_break)
- CSS Font configurations (revealjs_google_fonts and revealjs_generic_font)
- Passing values from html_js_files to revealjs_js_files

ver 1.5.1

date
2022-04-21

base
Reveal.js 4.3.1

Fixes

- Add role="main" into page.html for searching by Sphinx (#102)

Misc

- Add documentation link into metadata (PyPI)

ver 1.5.0

date
2022-04-11

base
Reveal.js 4.3.1

Features

- Add dirrevealjs builder to generate all pages as index.html

Deprecated

Mark as deprecated(logging.info) to drop at version 2.x

- Snake-cased directive (revealjs_slide, revealjs_section and revealjs_break)
- CSS Font configurations (revealjs_google_fonts and revealjs_generic_font)
- Passing values from html_js_files to revealjs_js_files
- Full-support for Python 3.6.x

ver 1.4.6

date
2022-03-26

base
Reveal.js 4.3.1 (updated)

(Only update reveal.js)

ver 1.4.5

date

2022-03-06

base

Reveal.js 4.3.0 (updated)

(Only update reveal.js)

ver 1.4.4

date

2021-12-12

base

Reveal.js 4.2.1 (updated)

(Only update reveal.js)

ver 1.4.3

Date

2021-11-20

Reveal.js

v4.2.0

(None updates for features)

Extra

- Update classifiers of PyPI
 - Fix key of license
 - Add other keys

ver 1.4.2

Date

2021-11-20

Reveal.js

v4.2.0

(None updates for features)

Extra

- Update test matrix of GitHub Actions to confirm that this supports python 3.10
- Update classifiers of PyPI because test cases passed under Python 3.10 and Sphinx 4.x

ver 1.4.1

Date

2021-11-16

Reveal.js

v4.2.0 (updated)

Fixes

- Replace reveal.js to use right bundle version.

ver 1.4.0

Date

2021-11-13

Reveal.js

v4.2.0 (updated)

New features

- Add `revealjs_js_files` for `conf.py` to set JS file. (#77)
- `revealjs_script_conf` accepts dict types (#56)

Extra

- Change test codes from nose to py.test

ver 1.3.1

date

2021-07-17

base

Reveal.js 4.1.3

Fixes

- `revealjs-fragments` for paragraph contents (#71)

ver 1.3.0

date

2021-07-11

base

Reveal.js 4.1.3

New features

- Support some attributes of sections
- Add directive `revealjs-code-block` to line highlighting for reveal.js
- Add kebab-case directives for currently snake-case directives
 - `revealjs-slide` \leq `revealjs_slie`
 - `revealjs-section` \leq `revealjs_section`
 - `revealjs-break` \leq `revealjs_break`
 - `revealjs-fragments` \leq `revealjs_fragments`

ver 1.2.1

date

2021-06-13

base

Reveal.js 4.1.3 (updated)

(Only update reveal.js)

ver 1.2.0

date

2021-06-06

base

Reveal.js 4.1.1 (updated)

New fetures

- When builder writes contents from extensions, use same of html builder

ver 1.1.0

date

2021-04-04

base

Reveal.js 4.1.0

New features

- Add option to add `id` attribute per sections (#59, #61)
 - Supporting label syntax of Sphinx.

Extra

- Fix dependencies for development environment
- Add package.json to notify updates reveal.js by dependabot

ver 1.0.1

date

2021-01-30

base

Reveal.js 4.1.0

Fixes

- Change order of link tags for css files (#40, #41)
- Rename test case function names for duplicated (#42, #54)

ver 1.0.0

date

2021-01-03

base

Reveal.js 4.1.0

Breaking changes

In this version, `sphinx-revealjs` bundle Reveal.js version 4.x, and does not supporting to work with Reveal.js 3.x. If you want to migrate presentation source for this version, please see [migration example](#).

New features

- Using Revealjs 4.x (use 4.1.0)
 - With supporting multiple presentation management in single documentation

Drop

- Bundle and implements for Revealjs 3.x

Version 0.x

ver 0.12.1

date
2020-12-12

Fixes

- Restrict effect of `revealjs_section` for only one section ([PR#36](#))

ver 0.12.0

date
2020-06-21

New features

- Config variables:
 - `revealjs_js_files`
 - `revealjs_css_files`
 - `revealjs_static_path`

Updates

- `revealjs_google_fonts` use Google Fonts API version 2
- Change css selector for google-fonts

Drop

- Remove `zenburn.css` from default included css files
- Ignore `html_js_files`, `html_css_files` and `html_static_path`

ver 0.11.0

date

2020-04-17

Features

- Add new config variables `revealjs_style_theme`, `revealjs_google_fonts`, `revealjs_generic_font`, `revealjs_script_files`, `revealjs_script_conf` and `revealjs_script_plugins`
- **Breaking:** Change directive option, from `config` to `conf` in `RevealjsSlide` directive.

Drop

- **Breaking:** Remove config variables `revealjs_theme` and `revealjs_theme_options`.

Fixes

- Use black for formatting

ver 0.10.1

date

2020-04-09

Fixes

- Change bundle Reveal.js (3.9.1 -> 3.9.2)

ver 0.10.0

data

2020-03-25

Features

- Change bundle Reveal.js (3.8.0 -> 3.9.1)
- Add support version (3.8, author's default)

Fixes

- In development, depend by sphinxcontrib-gtagjs. (use in demo)

Extra

- Change license (MIT -> Apache-2.0)
- Use poetry as build environment

ver 0.9.0

date

2019-12-22

Fixes

- google-fonts default options is changed for not to render in template.
- Adjusting templates based by sphinx basic theme. (short breaking)
 - Enable metatags , scripts and more template values.

ver 0.8.0

date

2019-11-11

Features

- Add new config option `google_font` to set google-font style.

ver 0.7.0

date
2019-10-28

Features

- Add new directive `revealjs_fragments` to use Fragment.

ver 0.6.1

date
2019-09-12

Fixes

- Remove tag that refer source not exists

ver 0.6.0

date
2019-07-31

Features

- Add new directive `revealjs_break` to split sections.
 - Updated demo

Extra

- Add docstrings any sources. (ignore tests)
- Remove Pipenv.
- Migrate metadata and options from `setup.py` into `setup.cfg`.
- Use bumpversion for versioning

ver 0.5.1

date
2019-06-30

Extra

- Update Reveal.js from 3.7.0 to 3.8.0

ver 0.5.0

date
2018-12-31

Features

- Revealjs initialize config accept from sphinx document config
- Revealjs initialize config accept from `revealjs_slide` directive

ver 0.4.1

date
2018-12-21

Fixes

- `revealjs_section` directive of source apply for itself only

ver 0.4.0

date
2018-12-10

Features

- It can select theme per presentations.

ver 0.3.1

First public release on PyPI.

LICENSES

This library is licensed Apache License version 2.0.

About license of directly dependencies, please see each software projects or documentations.

- docutils:
 - <https://docutils.sourceforge.io/>
- Sphinx:
 - <https://www.sphinx-doc.org/>
 - <https://github.com/sphinx-doc/sphinx>
- Reveal.js:
 - <https://revealjs.com/#/>
 - <https://github.com/hakimel/reveal.js>

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