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# Test Builds

Nov 19, 2019



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All contents of this documentation.



# CHAPTER 1

conf.py

```
1  # -*- coding: utf-8 -*-
2
3  # Default settings
4  project = 'Test Builds'
5  extensions = [
6      'sphinx_autorun',
7  ]
8
9  latex_engine = 'xelatex' # allow us to build Unicode chars
10
11
12  # Include all your settings here
13  html_theme = 'sphinx_rtd_theme'
14
15
16
17
18  #####
19  #          auto-created readthedocs.org specific configuration          #
20  #####
21
22
23  #
24  # The following code was added during an automated build on readthedocs.org
25  # It is auto created and injected for every build. The result is based on the
26  # conf.py.tpl file found in the readthedocs.org codebase:
27  # https://github.com/rtfd/readthedocs.org/blob/master/readthedocs/doc_builder/templates/
28  # ↪ doc_builder/conf.py.tpl
29  #
30
```

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```

31 import importlib
32 import sys
33 import os.path
34 from six import string_types
35
36 from sphinx import version_info
37
38 # Get suffix for proper linking to GitHub
39 # This is deprecated in Sphinx 1.3+,
40 # as each page can have its own suffix
41 if globals().get('source_suffix', False):
42     if isinstance(source_suffix, string_types):
43         SUFFIX = source_suffix
44     elif isinstance(source_suffix, (list, tuple)):
45         # Sphinx >= 1.3 supports list/tuple to define multiple suffixes
46         SUFFIX = source_suffix[0]
47     elif isinstance(source_suffix, dict):
48         # Sphinx >= 1.8 supports a mapping dictionary for multiple suffixes
49         SUFFIX = list(source_suffix.keys())[0] # make a ``list()`` for py2/py3
50     ↪ compatibility
51     else:
52         # default to .rst
53         SUFFIX = '.rst'
54 else:
55     SUFFIX = '.rst'
56
57 # Add RTD Static Path. Add to the end because it overwrites previous files.
58 if not 'html_static_path' in globals():
59     html_static_path = []
60 if os.path.exists('_static'):
61     html_static_path.append('_static')
62
63 # Add RTD Theme only if they aren't overriding it already
64 using_rtd_theme = (
65     ('html_theme' in globals() and
66     html_theme in ['default'] and
67     # Allow people to bail with a hack of having an html_style
68     'html_style' not in globals()
69     ) or 'html_theme' not in globals()
70 )
71 if using_rtd_theme:
72     theme = importlib.import_module('sphinx_rtd_theme')
73     html_theme = 'sphinx_rtd_theme'
74     html_style = None
75     html_theme_options = {}
76     if 'html_theme_path' in globals():
77         html_theme_path.append(theme.get_html_theme_path())
78     else:
79         html_theme_path = [theme.get_html_theme_path()]
80
81 if globals().get('websupport2_base_url', False):

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```

82 websupport2_base_url = 'https://readthedocs.org/websupport'
83 websupport2_static_url = 'https://assets.readthedocs.org/static/'
84
85
86 #Add project information to the template context.
87 context = {
88     'using_theme': using_rtd_theme,
89     'html_theme': html_theme,
90     'current_version': "testing-activate-version",
91     'version_slug': "testing-activate-version",
92     'MEDIA_URL': "https://media.readthedocs.org/",
93     'STATIC_URL': "https://assets.readthedocs.org/static/",
94     'PRODUCTION_DOMAIN': "readthedocs.org",
95     'versions': [
96         ("master", "/en/master/"),
97         ("latest", "/en/latest/"),
98         ("stable", "/en/stable/"),
99         ("3.0", "/en/3.0/"),
100        ("2.0", "/en/2.0/"),
101        ("v1.2.4", "/en/v1.2.4/"),
102        ("1.2.3", "/en/1.2.3/"),
103        ("yaml-v2", "/en/yaml-v2/"),
104        ("use-requirements-from-submodule", "/en/use-requirements-from-submodule/"),
105        ("use-py2", "/en/use-py2/"),
106        ("use-image-5.0rc1", "/en/use-image-5.0rc1/"),
107        ("unicode-filename", "/en/unicode-filename/"),
108        ("d--branch", "/en/d--branch/"),
109        ("typlog-theme", "/en/typlog-theme/"),
110        ("timeout", "/en/timeout/"),
111        ("throw-exception", "/en/throw-exception/"),
112        ("testing-activate-version", "/en/testing-activate-version/"),
113        ("test-py-37", "/en/test-py-37/"),
114        ("test-paths-with-spaces", "/en/test-paths-with-spaces/"),
115        ("test-branch-activated", "/en/test-branch-activated/"),
116        ("tag-v2", "/en/tag-v2/"),
117        ("tag-v1", "/en/tag-v1/"),
118        ("submodule-https-scheme", "/en/submodule-https-scheme/"),
119        ("submodule-git-scheme", "/en/submodule-git-scheme/"),
120        ("sphinx2", "/en/sphinx2/"),
121        ("sphinx-es-suggest", "/en/sphinx-es-suggest/"),
122        ("search-with-old-sphinx-and-theme", "/en/search-with-old-sphinx-and-theme/"),
123        ("robots-txt", "/en/robots-txt/"),
124        ("requirements-not-found", "/en/requirements-not-found/"),
125        ("pypy3.5", "/en/pypy3.5/"),
126        ("pygments-custom-lexer-apex", "/en/pygments-custom-lexer-apex/"),
127        ("py3.8", "/en/py3.8/"),
128        ("py3.5", "/en/py3.5/"),
129        ("none-formats", "/en/none-formats/"),
130        ("new-tag-activated", "/en/new-tag-activated/"),
131        ("nbsphinx-3d-plot", "/en/nbsphinx-3d-plot/"),
132        ("multiple-source-suffix", "/en/multiple-source-suffix/"),
133        ("meta-tags", "/en/meta-tags/"),

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134 ("make-default", "/en/make-default/"),
135 ("japanese-pdf", "/en/japanese-pdf/"),
136 ("invalid-submodules", "/en/invalid-submodules/"),
137 ("install-pytorch", "/en/install-pytorch/"),
138 ("huge-build-output", "/en/huge-build-output/"),
139 ("git-lfs", "/en/git-lfs/"),
140 ("file-with-apostrophe", "/en/file-with-apostrophe/"),
141 ("environment-variables", "/en/environment-variables/"),
142 ("datetime", "/en/datetime/"),
143 ("custom-404-page", "/en/custom-404-page/"),
144 ("conda-satisfied-skip-solve", "/en/conda-satisfied-skip-solve/"),
145 ("conda-pin-common-deps", "/en/conda-pin-common-deps/"),
146 ("conda-env-py3.7", "/en/conda-env-py3.7/"),
147 ("conda-env", "/en/conda-env/"),
148 ("c-dependencies", "/en/c-dependencies/"),
149 ("build-internals", "/en/build-internals/"),
150 ("be-default", "/en/be-default/"),
151 ("auto-wipe", "/en/auto-wipe/"),
152 ("another-matching-branch", "/en/another-matching-branch/"),
153 ("all-formats", "/en/all-formats/"),
154 ("alabaster-theme", "/en/alabaster-theme/"),
155 ("activate-me", "/en/activate-me/"),
156 ("aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa-", "/en/
↪ aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa-/"),
157 ],
158 'downloads': [
159 ],
160 'subprojects': [
161 ("time-test", "https://test-builds.readthedocs.io/projects/time-test/en/latest/
↪"),
162 ],
163 'slug': 'test-builds',
164 'name': u'test-builds',
165 'rtd_language': u'en',
166 'programming_language': u'words',
167 'canonical_url': 'https://test-builds.readthedocs.io/en/be-default/',
168 'analytics_code': 'None',
169 'single_version': False,
170 'conf_py_path': '/docs/',
171 'api_host': 'https://readthedocs.org',
172 'proxied_api_host': 'https://readthedocs.org',
173 'github_user': 'rtfd',
174 'github_repo': 'test-builds',
175 'github_version': 'testing-activate-version',
176 'display_github': True,
177 'bitbucket_user': 'None',
178 'bitbucket_repo': 'None',
179 'bitbucket_version': 'testing-activate-version',
180 'display_bitbucket': False,
181 'gitlab_user': 'None',
182 'gitlab_repo': 'None',
183 'gitlab_version': 'testing-activate-version',

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```

184     'display_gitlab': False,
185     'READTHEDOCS': True,
186     'using_theme': (html_theme == "default"),
187     'new_theme': (html_theme == "sphinx_rtd_theme"),
188     'source_suffix': SUFFIX,
189     'ad_free': False,
190     'user_analytics_code': '',
191     'global_analytics_code': 'UA-17997319-1',
192     'commit': 'd39922ff',
193 }
194
195
196
197
198 if 'html_context' in globals():
199
200     html_context.update(context)
201
202 else:
203     html_context = context
204
205 # Add custom RTD extension
206 if 'extensions' in globals():
207     # Insert at the beginning because it can interfere
208     # with other extensions.
209     # See https://github.com/rtfd/readthedocs.org/pull/4054
210     extensions.insert(0, "readthedocs_ext.readthedocs")
211 else:
212     extensions = ["readthedocs_ext.readthedocs"]
213
214 # Add External version warning banner to the external version documentation
215 if 'branch' == 'external':
216     extensions.insert(1, "readthedocs_ext.external_version_warning")
217
218 project_language = 'en'
219
220 # User's Sphinx configurations
221 language_user = globals().get('language', None)
222 latex_engine_user = globals().get('latex_engine', None)
223 latex_elements_user = globals().get('latex_elements', None)
224
225 # Remove this once windy gets installed in Docker image and XINDYOPS
226 # env variable is supported
227 # https://github.com/rtfd/readthedocs-docker-images/pull/98
228 latex_use_xindy = False
229
230 chinese = any([
231     language_user in ('zh_CN', 'zh_TW'),
232     project_language in ('zh_CN', 'zh_TW'),
233 ])
234
235 japanese = any([

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```
236     language_user == 'ja',
237     project_language == 'ja',
238 ])
```

```
239
240 if chinese:
241     latex_engine = latex_engine_user or 'xelatex'
242
243     latex_elements_rtd = {
244         'preamble': '\\usepackage[UTF8]{ctex}\n',
245     }
246     latex_elements = latex_elements_user or latex_elements_rtd
247 elif japanese:
248     latex_engine = latex_engine_user or 'platex'
```

This repository is used internally to create different scenarios on build configs and trigger many builds on Read the Docs productions.

Each branch should explain on it's `docs/index.rst` what's about and how the QA process can be considered a success or a failure.

If we need to test a very specific use case, we create a new branch with the issue number and the repository, like: `issue-1234-org`, `issue-4321-ext` or similar.

## 2.1 Scenarios

Each of these scenarios is a branch that can be built independently from the others.

- `alabaster-theme`: use `alabaster` as theme
- `auto-wipe`: used for auto wipe the environment when a config is changed
- `branch/with/slashes`: used to check that git clones without problem
- `conda-env`: use a simple conda environment to build the docs
- `conda-env-py3.7`: use a simple conda environment to build the docs with Python 3.7
- `datetime`: shows different times (system time, build time, etc)
- `environment-variables`: shows all the environment variables used to build the docs
- `huge-build-output`: generate megabytes of output data for commands
- `none-formats`: use `formats: []` so only HTML is built
- `requirements-not-found`: use `requirements_file: .notfound.txt`
- `robots-txt`: use a custom `robots.txt` for this project
- `search-with-old-sphinx-and-theme`: search box on old Sphinx and RTD theme version
- `timeout`: generate a timeout by sleeping 1000 seconds

- `typlog-theme`: use `typlog` as theme
- `ũńĩč°də-branch`: the name of the branch is unicode
- `unicode-filename`: has a page (`rst`) that its filename is unicode
- `use-py2`: use `python: version: 2`
- `yaml-v2`: use a simple YAML for the V2 configuration

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**Note:** There could be more scenarios probably, but this list is not always up to date. Please, check [all the branches](#) to be sure.

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## 2.2 Tags

We also have some tags to have some tests around this.

- `tag-v1`: points to an specific commit
- `tag-v2`: points to the same commit than `tag-v1` (Delete tags with same commit)

## 2.3 Addind a new scenario to the repository

1. Create a new branch from `master` using an appropriate name
2. Explain what's the use case in its `docs/index.rst` file
  - How to check if the QA can be considered success or failure
  - Add links to the issue tracker where there are more information
3. Add or modify the necessary files
  - Make sure that these files contains the minimum configuration needed:
    - remove auto generated comments
    - configs not used
4. Push your changes
5. Modify the `README.rst` file from `master` to add this new branch in the list

---

Sphinx configuration file used to build this docs (*see full file*),

```
1  # -*- coding: utf-8 -*-
2
3  # Default settings
4  project = 'Test Builds'
5  extensions = [
6      'sphinx_autorun',
7  ]
8
9  latex_engine = 'xelatex' # allow us to build Unicode chars
10
```

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```
11
12 # Include all your settings here
13 html_theme = 'sphinx_rtd_theme'
14
15
16
17
```

---

```
>>> # Build at
>>> import datetime
>>> datetime.datetime.utcnow() # UTC
datetime.datetime(2019, 11, 19, 18, 0, 33, 734124)
```