
Troubleshooting Common Hyrax “Gotchas”

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translation missing: en.slide_title

Language Switch English

admin

translation missing:... / translation missing:... / translation missing:...

translation missing: en.hyrax.admin.sidebar.collections

translation missing: en.hyrax.dashboard.all.collections

translation missing: en.hyrax.dashboard.my.your_collections

New

translation missing: en.hyrax.my.count.collections.in_repo

Collections

translation missing: en.hyrax.dashboard.my.heading.collection_type

Show 10 per page

Label <span class="translation_missing" title="translation missing: en.hyrax.search.for Html

<input type="checkbox"/> Select	Title	Type	Visibility	Items	Last Modified	Action
<input type="checkbox"/>	 Default Admin Set >	translation missing: en.hyrax.collection_type.admin_set_title	translation missing: en.hyrax.visibility.restricted.text	0	09/20/2019	Select

Context: Translations (i18n)

- “Hyrax translates user interface strings into multiple languages”
- `i18n-tasks` gem (utilizing the Google Translate API)
- Translations controlled by YAML files
- Localization files live under:
 - `config/locales/`
- Language codes:
 - `hyrax.en.yml`
 - `hyrax.fr.yml`

Fun Fact: the abbreviation “i18n” means “i-eighteen letters-n”

```
1 ---
2 en:
3   hyrax:
4     account_name: My Institution Account Id
5     base:
6       collections:
7         show:
8           subcollection_count: Collections in this Collection
9     bread_crumb:
10    search_results: Back to Search Results
11    collections:
12      index:
13        collections: Collections <-- en.hyrax.collections.index.collections
14        show:
15          works_in_collection: Items in this Collection
16    controls:
17      collections: Collections
18      institutions: Institutions
19      participate: Participate
20    dashboard:
21      collections:
22        show:
23          metadata_header: Collection Details
24    directory:
25      suffix: "@example.org"
26    footer:
27      copyright_html: "<strong>Copyright &copy; 2019 Samvera</strong> Licensed under the Apache License, Version 2.0"
28      service_html: A service of <a href="http://samvera.org/" class="navbar-link" target="_blank">Samvera</a>.
29    institution_name: Institution
30    institution_name_full: The Institution Name
31    pages:
32      tabs:
33        about_page: About
```

Filter collections:


Collection Type ▾

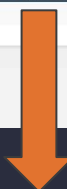
Show 10 per page

Search Hyrax

Enter search terms

Go

<input type="checkbox"/> Select	Title	Type	Visibility	Items	Last modified	Actions
<input type="checkbox"/>	 Default Admin Set >	translation missing: en.hyrax.collection_type.admin_set_title	Private	0	09/20/2019	Select ▾



Filter collections:

Collection Type ▾

Show 10 per page

Search Hyrax

Enter search terms

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<input type="checkbox"/> Select	Title	Type	Visibility	Items	Last modified	Actions
<input type="checkbox"/>	 Default Admin Set >	Admin Set	Private	0	09/20/2019	Select ▾

```
1 ---
2 en:
3   hyrax:
4     | account_name: Account Id
5     | collection_type:
6     | | admin_set_title: Admin Set
7     | directory:
```

Customizing Hyrax View Elements

Example: Navbar Icon



English ▾



admin 👤 ▾



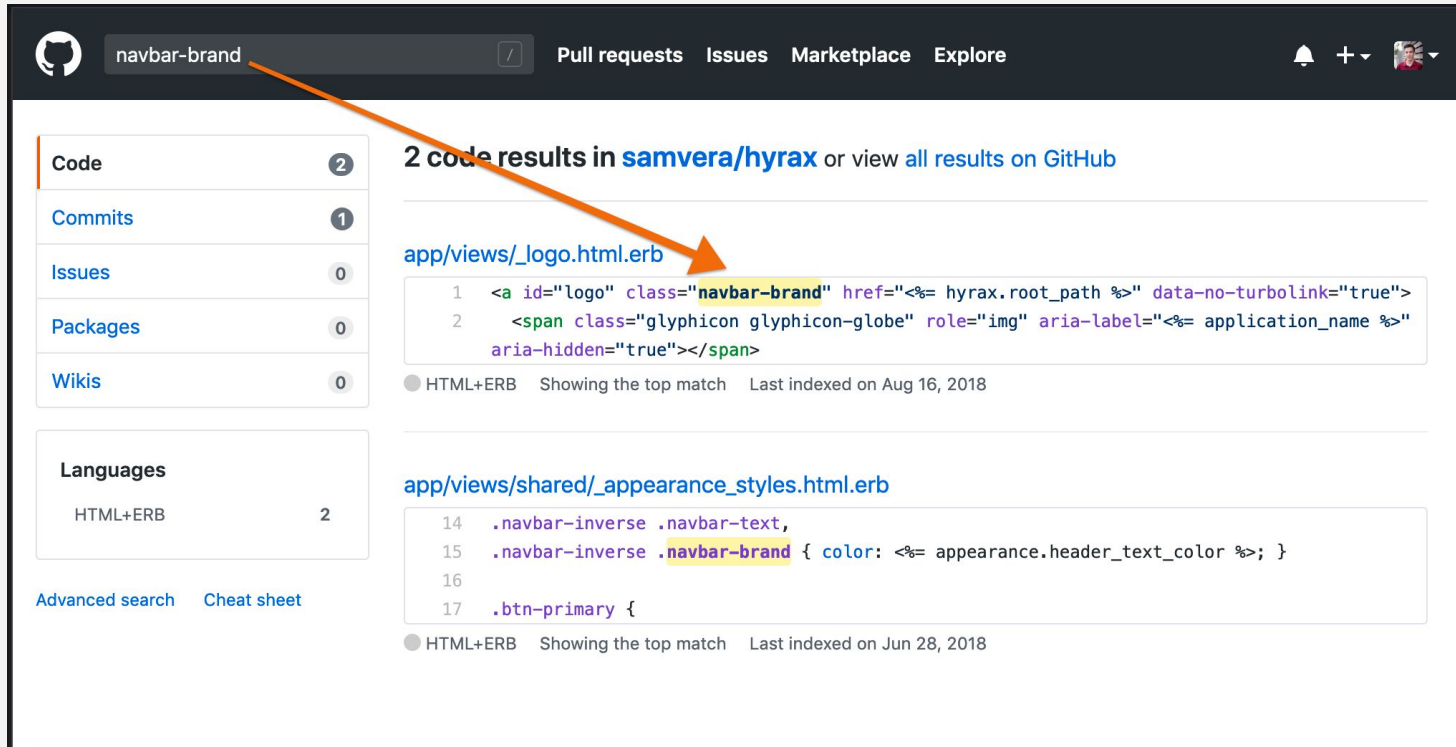
1. Inspect Element for Keywords

The screenshot shows a web browser with the developer tools open. The browser's address bar displays the URL `http://connect.hyku.docker/?locale=en`. The developer tools interface includes a search bar for HTML and a tree view of the page's DOM. The following HTML code is visible in the tree view:

```
<!--Brand and toggle get grouped for better mobile display-->
<div class="navbar-header">
  ::before
  <button class="navbar-toggle collapsed" type="button" data-toggle="collapse" data-target="#top-
  navbar-collapse" aria-expanded="false">...</button> event
  <a id="logo" class="navbar-brand" href="/?locale=en" data-no-turbolink="true">...</a>
  ::after
</div>
```

The `...` element is selected and highlighted in blue. The `class="navbar-brand"` attribute is circled in orange. The right-hand pane of the developer tools shows a list of elements, including 'Pseud', 'This Ele', and 'element', with a search filter ':ho' applied.

2. Search Hyrax Repository for keyword/phrase



The screenshot shows a GitHub search interface with the search term 'navbar-brand' in the top bar. The search results are displayed in a list format. The first result is for the file 'app/views/_logo.html.erb' in the repository 'samvera/hyrax'. The code snippet for this file is highlighted, showing the 'navbar-brand' class being used in an HTML element. The second result is for the file 'app/views/shared/_appearance_styles.html.erb', which shows the 'navbar-brand' class being used in a CSS class definition. An orange arrow points from the search bar to the first result.

navbar-brand

Pull requests Issues Marketplace Explore

Code 2

Commits 1

Issues 0

Packages 0

Wikis 0

Languages

HTML+ERB 2

Advanced search Cheat sheet

2 code results in [samvera/hyrax](#) or view [all results on GitHub](#)

[app/views/_logo.html.erb](#)

```
1 <a id="logo" class="navbar-brand" href="<%= hyrax.root_path %>" data-no-turbolink="true">
2 <span class="glyphicon glyphicon-globe" role="img" aria-label="<%= application_name %>"
  aria-hidden="true"></span>
```

● HTML+ERB Showing the top match Last indexed on Aug 16, 2018

[app/views/shared/_appearance_styles.html.erb](#)

```
14 .navbar-inverse .navbar-text,
15 .navbar-inverse .navbar-brand { color: <%= appearance.header_text_color %>; }
16
17 .btn-primary {
```

● HTML+ERB Showing the top match Last indexed on Jun 28, 2018

3. Copy File Into Local Repository

3 Methods:

1) If the Hyrax repo is cloned on the local machine

a) Git checkout the correct version

i) <https://stackoverflow.com/a/35979751>

b) `cp ~/Development/source-code/hyrax/app/views/_logo.html.erb app/views`

Copy command

Path to file in Hyrax clone

Desired destination

2) If using Docker (inside the web container)

a) Show path to gem using: `bundle show hyrax`

b) `cp /usr/local/rvm/gems/ruby-2.5.3/gems/hyrax-2.5.1/app/views/_logo.html.erb app/views/`

Copy command

Path to file in Hyrax gem

Desired destination

3. Copy File Into Local Repository (continued)

3 Methods:

- 3) Manually copy-paste from GitHub

```
---
en:
  activefedora:
    models:
      batch_upload_item: Works by Batch
      file_set: File
    activemodel:
      errors:
        messages:
          cannot_have_child_nested: cannot have child nested within it
          cannot_nest_in_parent: cannot nest within parent
          cannot_remove_relationship: permission is inadequate for removal of nesting relationship
          conflict: Your changes could not be saved because another user (or background job) updated this %(model) after you began
          editing. Please make sure all file attachments have completed successfully and try again. This form has refreshed with the most
          recent saved copy of the %(model).
          exceeds_maximum_nesting_depth: nesting exceeds the allowed maximum nesting depth.
          is_not_nestable: is not nestable
      blacklight:
        search:
          fields:
            facet:
              admin_set_sim: Admin Set
              collection_type_gid_ssim: Collection Type
              member_of_collections_ssim: Collection
              resource_type_sim: Resource type
              suppressed_bsi: Status
              visibility_ssi: Visibility
            show:
              admin_set: 'In Administrative Set:'
              based_near_label: Location
              contributor: Contributors
              keyword: Keyword
            filters:
              title: 'Filtering by:'
              start_over: Start Over
      errors:
        messages:
          carrierwave_download_error: Couldn't download image.
          carrierwave_integrity_error: Not an image.
          carrierwave_processing_error: Cannot resize image.
          extension_blacklist_error: 'You are not allowed to upload %(extension) files, prohibited types: %(prohibited_types)'
          extension_whitelist_error: 'You are not allowed to upload %(extension) files, allowed types: %(allowed_types)'
      helpers:
        action:
          add: Add
          admin_set:
            new: Create new administrative set
          batch:
            new: Create batch of works
          cancel: Cancel
          close: Close
          collection:
            new: New Collection
```

4. Make Changes

1) Commit unmodified file **first**

a) Easier to look back on diffs in git history

2) Add override comments

a) Top of file: `# Override file from Hyrax v2.5.1`

b) Everywhere changes are made: `# Change icon from globe to thumbs up`

3) Add and commit changes

Customized View Element: Result

```
1 <%= # Override file from Hyrax v2.5.1 %>
2 <a id="logo" class="navbar-brand" href="<%= hyrax.root_path %>" data-no-turbolink="true">
3   <%= # Change icon from globe to thumbs up %>
4   <span class="glyphicon glyphicon-thumbs-up" role="img" aria-label="<%= application_name %>" aria-hidden="true"></span>
5   <span class="institution_name"><%= application_name %></span>
6 </a>
```

Adding / Changing Work Properties in Hyrax

When Adding / Changing Property

app/models/{work}.rb

app/indexers/{work}_indexer.rb

app/models/solr_document.rb

app/forms/{work}_form.rb

app/presenters/{work}_presenter.rb

app/views/hyrax/base/_attribute_rows.html.erb

app/views/hyrax/{work}/_attribute_rows.html.erb

app/controllers/catalog_controller.rb

config/locales/{work}.yml

When Adding a Custom Property

(Everything on the left, plus:)

app/views/records/edit_fields/{custom_field}.html.erb

app/views/records/show_fields/{custom_field}.html.erb

Ldp::Conflict error, “Can’t call create on an existing resource”

- Well documented issue
 - <https://github.com/samvera/hyrax/issues/3128>
 - Has since been resolved as of Hyrax v2.5.0
- Can occur when creating a new Work or Collection
 - Wrapped in SQL database transaction
 - Doesn’t know how to rollback changes to Fedora / Solr

Ldp::Conflict error, “Can’t call create on an existing resource”

Solutions

- Need to keep database data:

```
[::Noid::Rails::Service.new.minter.mint, ::Noid::Rails::Service.new.minter.mint]
```

- Forces Minter to skip two ids (Fedora / FileSet)

- Don’t need to keep database data:

- Warning! Destructive!

- Will wipe all data from Fedora and Solr
- Will **not** clear data from ActiveRecord

```
require 'active_fedora/cleaner'; ActiveFedora::Cleaner.clean!
```

- Great for test db cleanup

Couldn't find Hyrax::PermissionTemplate

“Permissions templates have a 1-1 relationship to admin sets. **Admin sets are the Fedora portion** of the implementation, and **Permission templates are the database portion.**”

- <https://wiki.duraspace.org/display/samvera/Code+for+Permission+Templates>
- Occurs when the permission template of a still-existing AdminSet is deleted
- “This may happen if you cleared your database but you did not clear out Fedora and Solr.”
 - https://github.com/samvera/hyrax/blob/master/lib/tasks/default_admin_set.rake#L10-L11

Couldn't find Hyrax::PermissionTemplate

Solutions

- Non-destructive:

```
Hyrax::PermissionTemplate.create!(source_id: AdminSet::DEFAULT_ID)
```

- Destructive:

```
require 'active_fedora/cleaner'; ActiveFedora::Cleaner.clean!
```

Web Console

- Debugging tool
 - Similar to `pry` or `byebug`
 - Runs a console through the browser instead of the command line
- Usage
 - Add `fail` or `raise 'hello world'` to block

Web Console: Setup

- Add to Gemfile
 - `'web-console', group [:development]`
 - `bundle install`
- Whitelist IP address(es)

```
1 # config/environments/development.rb
2 Rails.application.configure do
3   # Settings specified here will take precedence over those in config/application.rb.
4   config.web_console.permissions = ['172.16.0.0/12', '192.168.0.0/16', '127.0.0.1']
5
```

Note: older versions of the `web-console` gem may use `#whitelisted_ips` instead of `#permissions`

RuntimeError in Hyrax::Homepage#index

Showing /home/app/webapp/app/views/_logo.html.erb where line #3 raised:

Extracted source (around line #3):

```
1 <%=# Override file from Hyrax v2.5.1 %>
2 <a id="logo" class="navbar-brand" href="<%= hyrax.root_path %>" data-no-turbolink="true">
3   <% fail %>
4   <%=# Change icon from globe to thumbs up %>
5   <span class="glyphicon glyphicon-thumbs-up" role="img" aria-label="<%= application_name %>" ar
6   <span class="institution_name"><%= application_name %></span>
```

```
>> hyrax.root_path
```

```
=> "/*?locale=en"
```

```
>> █
```

X

Lightning Round!!!

Useful Methods

`#to_solr`

- Can be used on objects like FileSets
- Useful for inspecting / troubleshooting Solr documents

`#method(:method_name).source_location`

- Locate the definition of a provide method
- E.g. `AdminSet.method(:indexer).source_location`

`#methods.grep /fuzzy_keyword/`

- Narrow list of methods down to only show those that match a Regular Expression
- E.g. `User.last.methods.grep /validat/`

Miscellaneous

IIIF Search Troubleshooting

```
{root_path}/catalog/(:id)/iiif_search?q=foo
```

```
{root_path}/concern/{work_type}/(:id)/manifest
```

Additional Troubleshooting Documentation

- <https://samvera.github.io/troubleshooting-production.html>
- https://samvera.github.io/troubleshooting_riif.html

Sources

- [https://github.com/samvera/hyrax/wiki/Translations-\(internationalization\)](https://github.com/samvera/hyrax/wiki/Translations-(internationalization))
- <https://whatis.techtarget.com/definition/internationalization-l18n>
- <https://stackoverflow.com/a/35979751>
- https://docs.google.com/presentation/d/1bhb1OyJb300WNErOj3T5Zb4dyjwMhNdvi_WVUYfYUEk/edit#slide=id.g29090e454a_0_38
- <https://github.com/samvera/hyrax/issues/3128>
- <https://wiki.duraspace.org/display/samvera/Code+for+Permission+Templates>
- https://github.com/samvera/hyrax/blob/master/lib/tasks/default_admin_set.rake#L11-L14
- <https://github.com/rails/web-console#configuration>

Thank you!



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