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## CONTENT MANAGEMENT

# Page Bundles

Content organization using Page Bundles

Page Bundles are a way to group [Page Resources](#).

A Page Bundle can be one of:

- Leaf Bundle (leaf means it has no children)
- Branch Bundle (home page, section, taxonomy terms, taxonomy list)

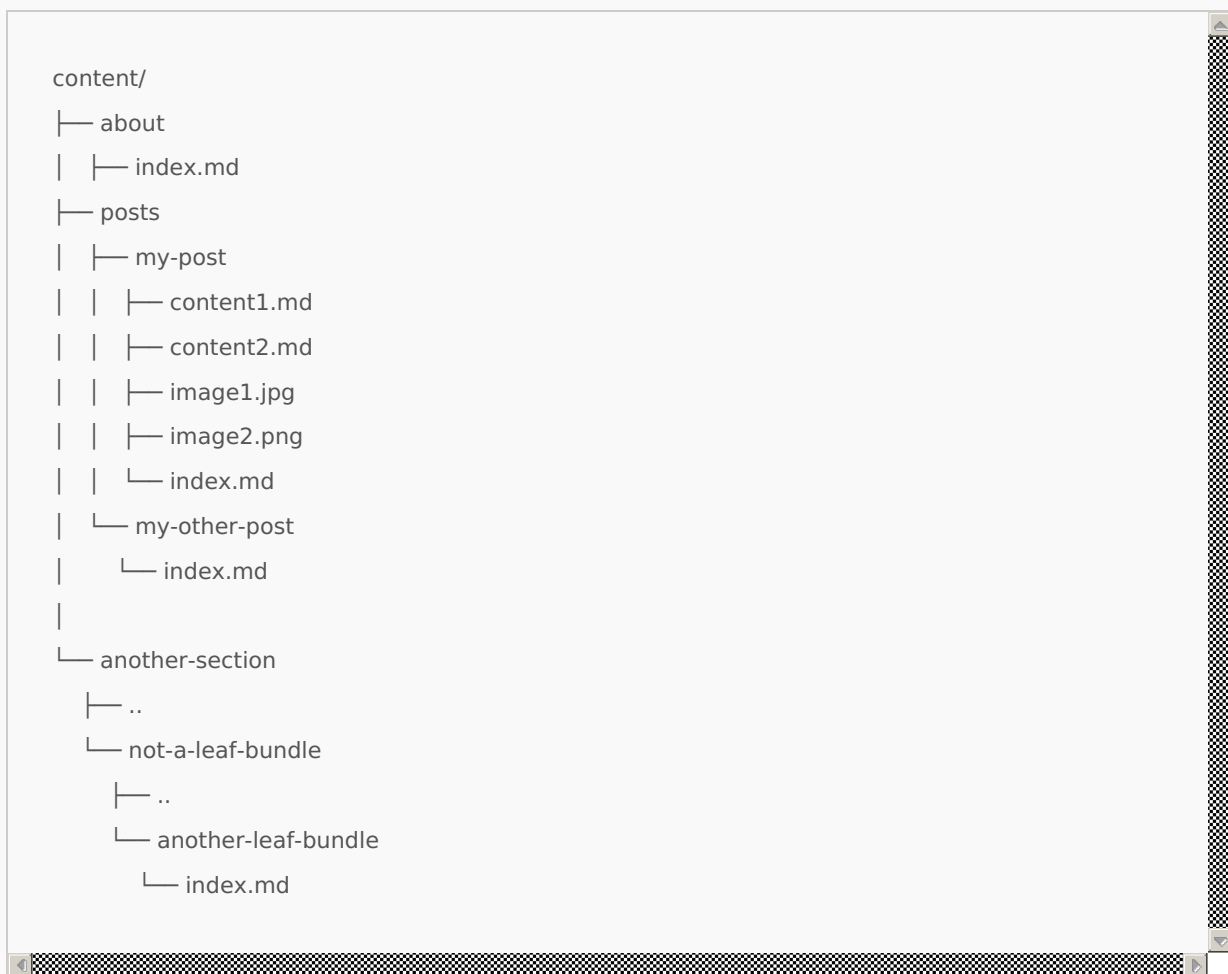
	Leaf Bundle	Branch Bundle
Usage	Collection of content and attachments for single pages	Collection of attachments for section pages (home page, section, taxonomy terms, taxonomy list)
Index file name	index.md <sup>1</sup>	_index.md <sup>1</sup>
Allowed Resources	Page and non-page (like images, pdf, etc.) types	Only non-page (like images, pdf, etc.) types
Where can the Resources live?	At any directory level within the leaf bundle directory.	Only in the directory level <b>of</b> the branch bundle directory i.e. the directory containing the _index.md ( <a href="#">ref</a> ).
Layout type	single	list
Nesting	Does not allow nesting of more bundles under it	Allows nesting of leaf or branch bundles under it

	Leaf Bundle	Branch Bundle
Example	content/posts/my-post/index.md	content/posts/_index.md
Content from non-index page files...	Accessed only as page resources	Accessed only as regular pages

## Leaf Bundles [↗](#)

A *Leaf Bundle* is a directory at any hierarchy within the `content/` directory, that contains an **index.md** file.

## Examples of Leaf Bundle organization [↗](#)



In the above example `content/` directory, there are four leaf bundles:

### **about**

This leaf bundle is at the root level (directly under `content` directory) and has only the `index.md`.

## my-post

This leaf bundle has the index.md, two other content Markdown files and two image files.

## image1

This image is a page resource of my-post and only available in my-post/index.md resources.

## image2

This image is a page resource of my-post and only available in my-post/index.md resources.

## my-other-post

This leaf bundle has only the index.md.

## another-leaf-bundle

This leaf bundle is nested under couple of directories. This bundle also has only the index.md.

The hierarchy depth at which a leaf bundle is created does not matter, as long as it is not inside another **leaf** bundle.

## Headless Bundle [↗](#)

A headless bundle is a bundle that is configured to not get published anywhere:

- It will have no Permalink and no rendered HTML in public/.
- It will not be part of .Site.RegularPages, etc.

But you can get it by .Site.GetPage. Here is an example:

```
{{ $headless := .Site.GetPage "/some-headless-bundle" }}
{{ $reusablePages := $headless.Resources.Match "author*" }}
<h2>Authors</h2>
{{ range $reusablePages }}
  <h3>{{ .Title }}</h3>
  {{ .Content }}
{{ end }}
```

In this example, we are assuming the *some-headless-bundle* to be a headless bundle containing one or more **page** resources whose *.Name* matches *"author\*"*.

Explanation of the above example:

1. Get the some-headless-bundle Page “object”.
2. Collect a *slice* of resources in this Page Bundle that matches "author\*" using `.Resources.Match`.
3. Loop through that *slice* of nested pages, and output their `.Title` and `.Content`.

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A leaf bundle can be made headless by adding below in the Front Matter (in the `index.md`):



There are many use cases of such headless page bundles:

- Shared media galleries
- Reusable page content “snippets”

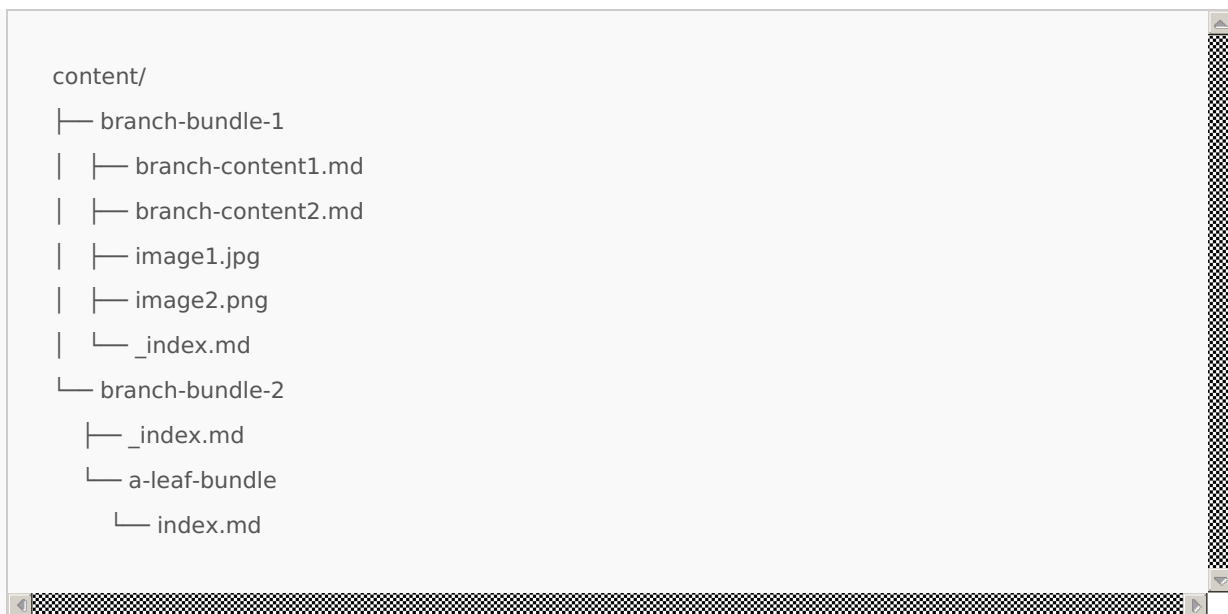
## Branch Bundles [↗](#)

A *Branch Bundle* is any directory at any hierarchy within the `content/` directory, that contains at least an `_index.md` file.

This `_index.md` can also be directly under the `content/` directory.

Here `md` (markdown) is used just as an example. You can use any file type as a content resource as long as it is a content type recognized by Hugo.

## Examples of Branch Bundle organization [↗](#)



In the above example `content/` directory, there are two branch bundles (and a leaf bundle):

#### **branch-bundle-1**

This branch bundle has the `_index.md`, two other content Markdown files and two image files.

#### **branch-bundle-2**

This branch bundle has the `_index.md` and a nested leaf bundle.

The hierarchy depth at which a branch bundle is created does not matter.

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1. The `.md` extension is just an example. The extension can be `.html`, `.json` or any valid MIME type. [↩](#)

## See Also

- [Page Resources](#)
- [Content Organization](#)
- [Single Page Templates](#)

“Page Bundles” was last updated: November 20, 2020: [Fix typo in page bundles \(#1283\) \(ae2dc138a\)](#)

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