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Leaf Bundles

Branch Bundles

‹

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)

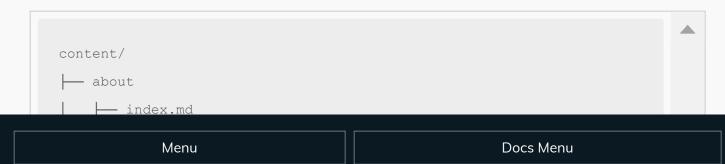|	Leaf Bundle	Branch Bundle
Usage	Collection of content and attachments for single pages	Collection of attachments for section pages (home page, section, taxonomy terms, taxonomy list)
Index file name	`index.md` [1]	`_index.md` [1]

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	Leaf Bundle	Branch Bundle
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 **of** the branch bundle directory i.e. the directory containing the `_index.md` ([ref](#)).
Layout type	`single`	`list`
Nesting	Does not allow nesting of more bundles under it	Allows nesting of leaf or branch bundles under it
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 🔗

```
content/
├── about
│   ├── index.md
```

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```
|    |      ├── content1.md
|    |      ├── content2.md
|    |      ├── image1.jpg
|    |      ├── image2.png
|    |      └── index.md
|    └── my-other-post
|          └── index.md
|
└── another-section
     ├── ..
     └── not-a-leaf-bundle
          ├── ..
          └── another-leaf-bundle
               └── index.md
```

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.

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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:

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`.

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

```
headless = true
```

There are many use cases of such headless page bundles:

- Shared media galleries

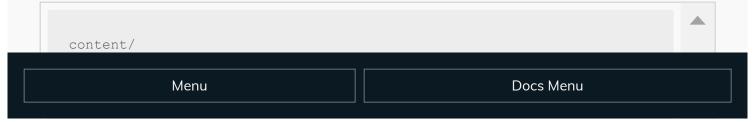- Reusable page content "snippets"

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 🔗

```
content/
```

```
|    ├── branch-content2.md
|    ├── image1.jpg
|    ├── image2.png
|    └── _index.md
└── branch-bundle-2
     ├── _index.md
     └── a-leaf-bundle
          └── index.md
```

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](#)

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Last updated: November 20, 2020: **Fix typo in page bundles (#1283) (ae2dc138a)**

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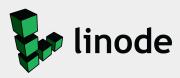# By the Hugo Authors

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