

Where do you build a Design System?

About Design System Kit

Design Tools Meetup Hamburg, precious, 15.6.2018



We are,

Marius Wilms

CTO at Atelier Disko

Christoph Labacher

Interaction Designer at Atelier Disko

Style

Components

- Displaying Content
 - List
- Input
- Navigation

Content

- Glossary
- Tone of Voice

Culture

- Code of Conduct

List

A List-component displays items in an ordered or unordered list.

PROGRESS/DRAFT

RELEASE/0.6

About

API

Downloads

- [List Design.sketch](#)
- [List.png](#)

Example

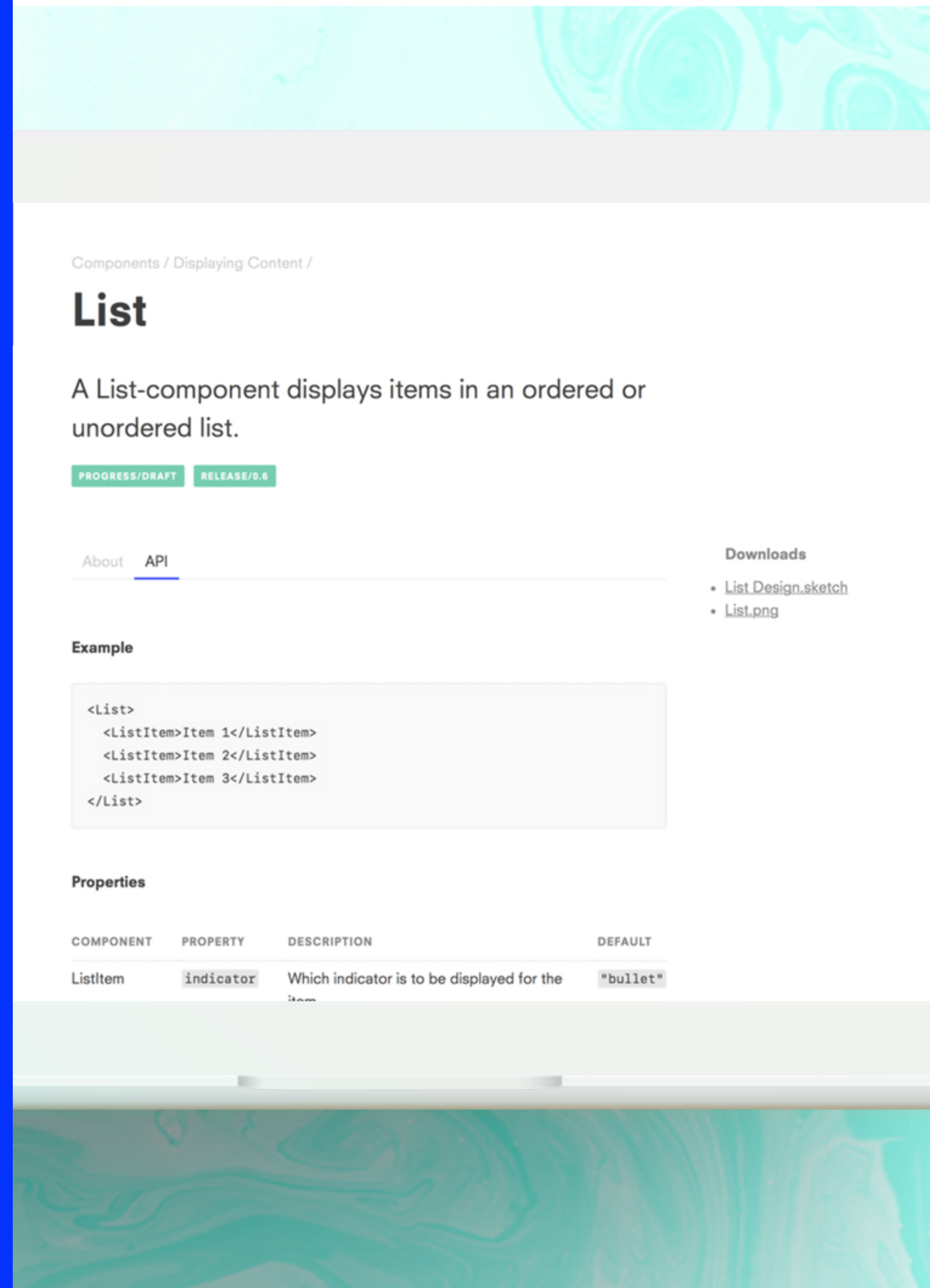
```
<List>
  <ListItem>Item 1</ListItem>
  <ListItem>Item 2</ListItem>
  <ListItem>Item 3</ListItem>
</List>
```

Properties

COMPONENT	PROPERTY	DESCRIPTION	DEFAULT
ListItem	indicator	Which indicator is to be displayed for the item	"bullet"

DSK

a workbench for
collaboratively creating
Design Systems



DSK

DSK is short for

Design System Kit

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[About](#) **API**

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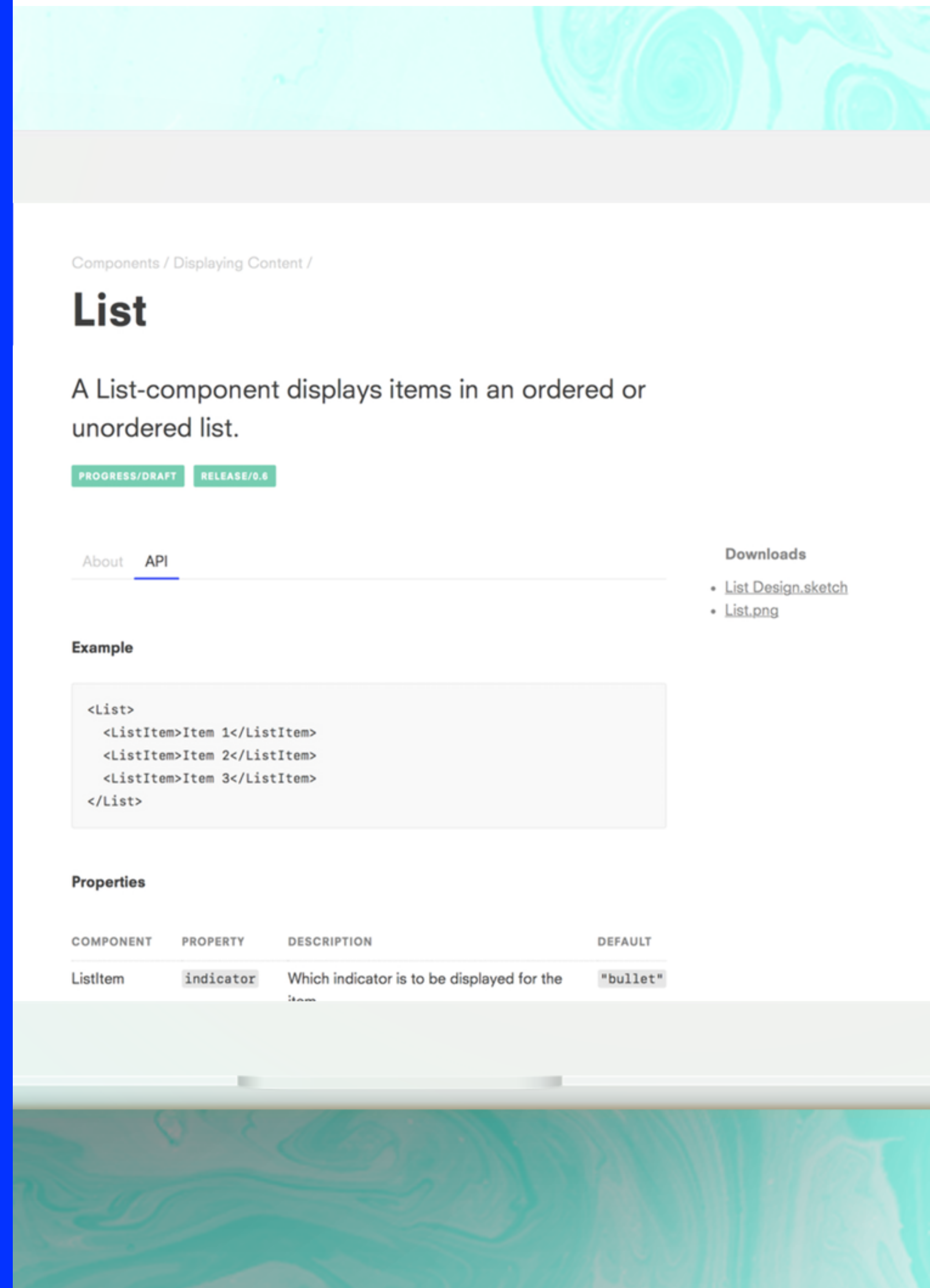
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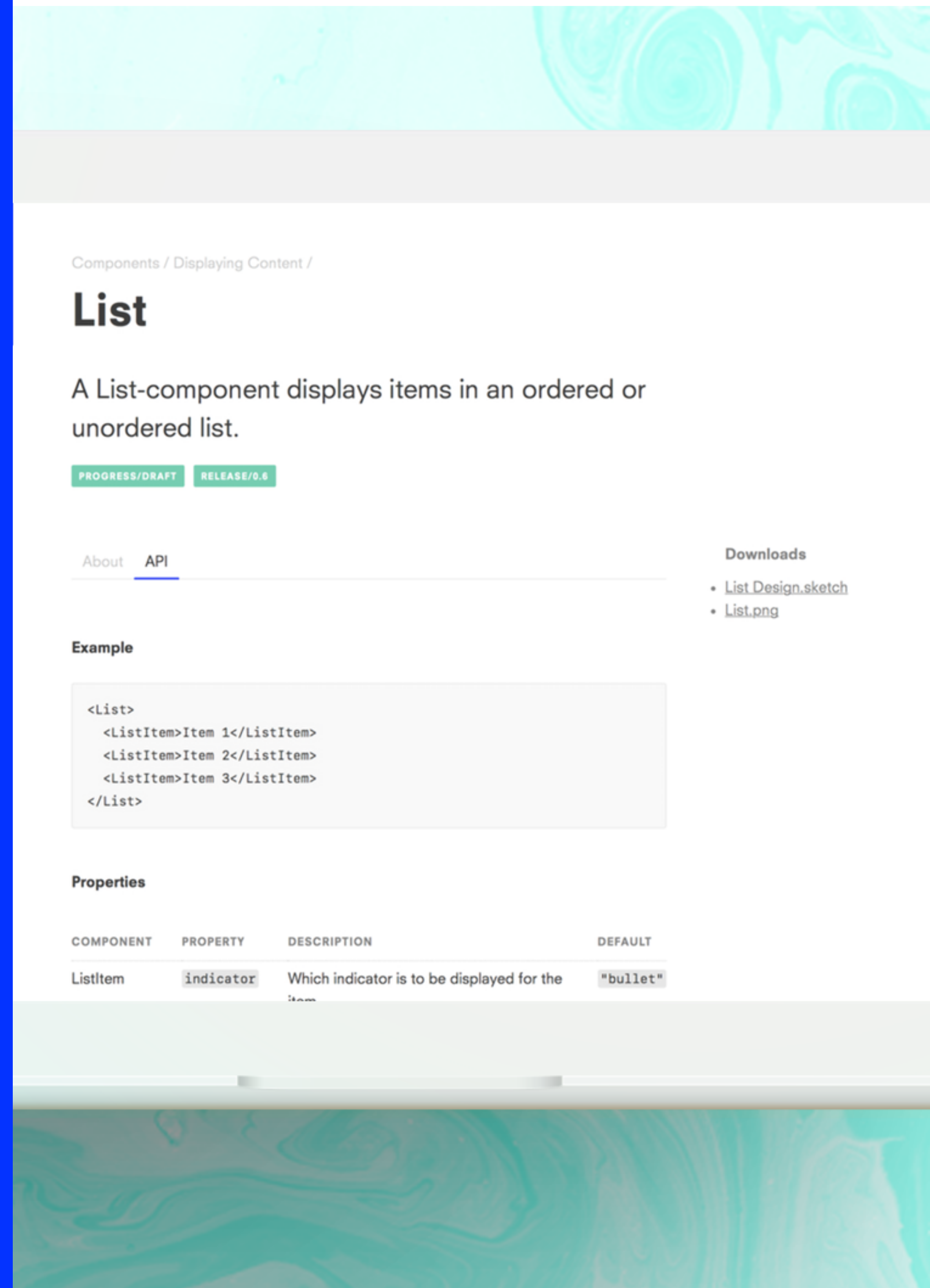
DSK

- Open Source
- 4 weeks to 0.5
- 7 months to 1.0
- young
- in production



Our Talk

Not a sales pitch



Our Talk

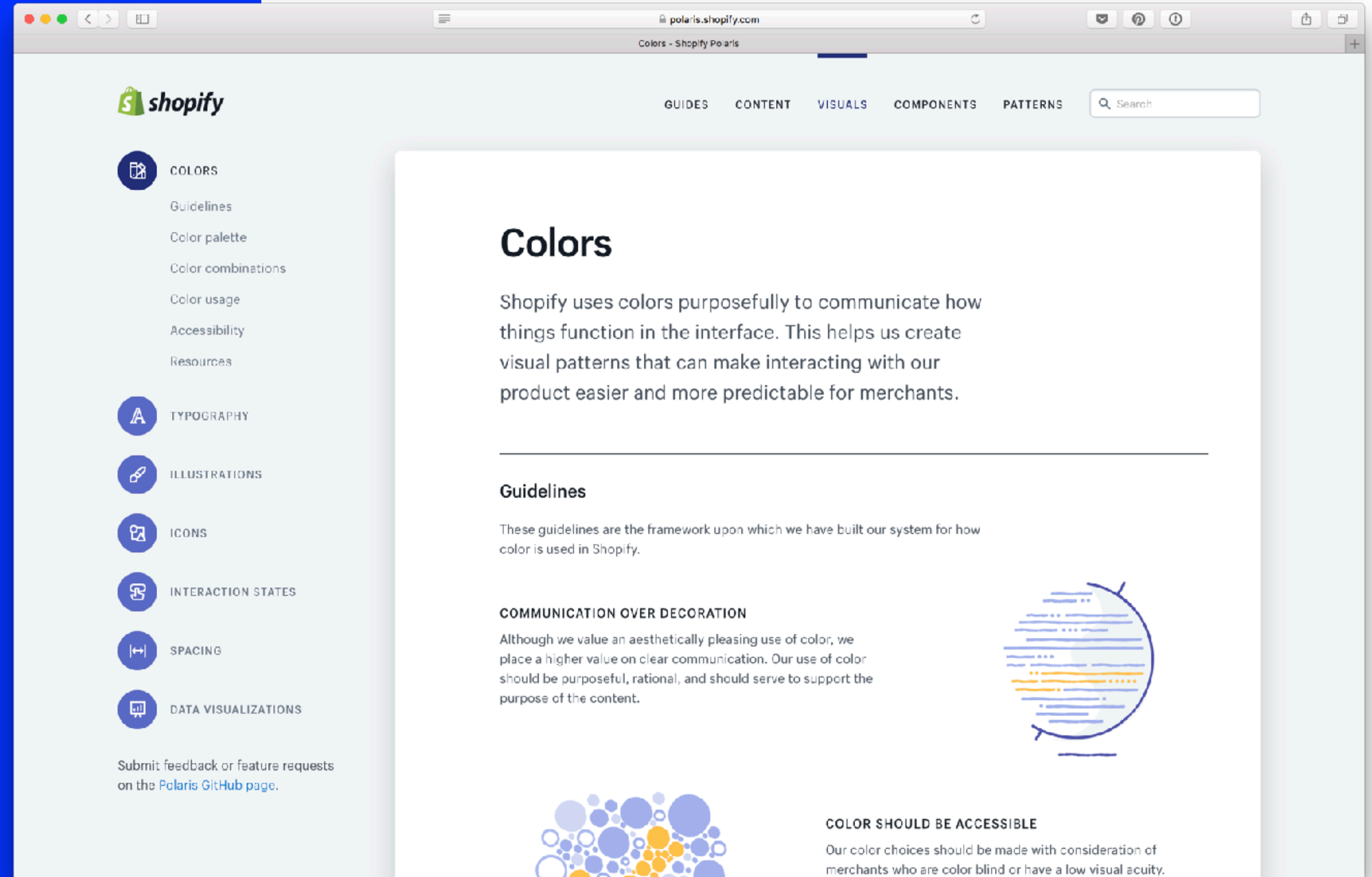
- What are Design Systems?
- Where do you build a Design System?
- Core Aspects
- Technical Implementation
- The Design Definitions Tree
- Deployment Options
- Architecture & API

What are Design Systems?

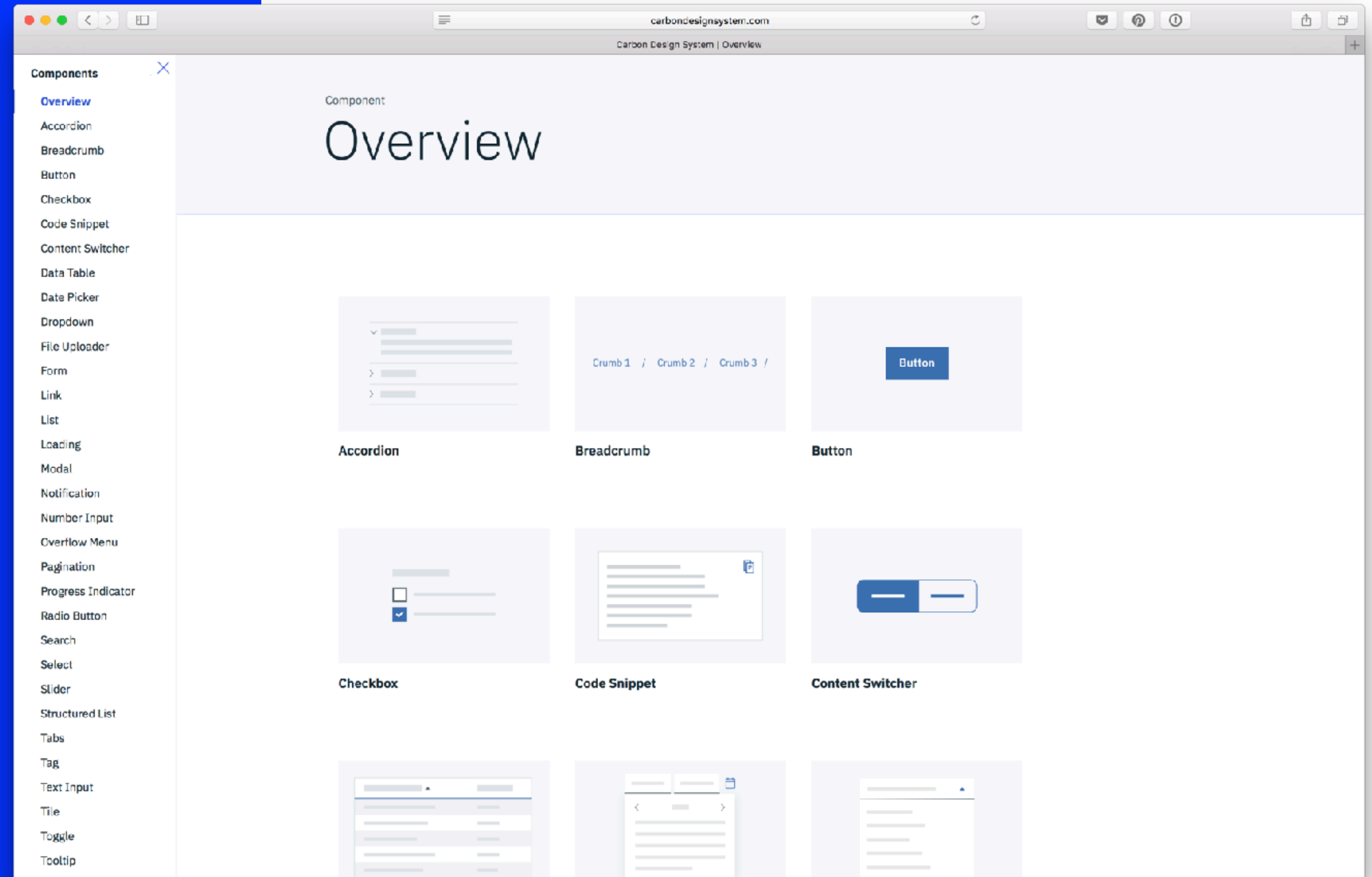
What are Design Systems?

Design Systems are repositories of organizational knowledge on design.

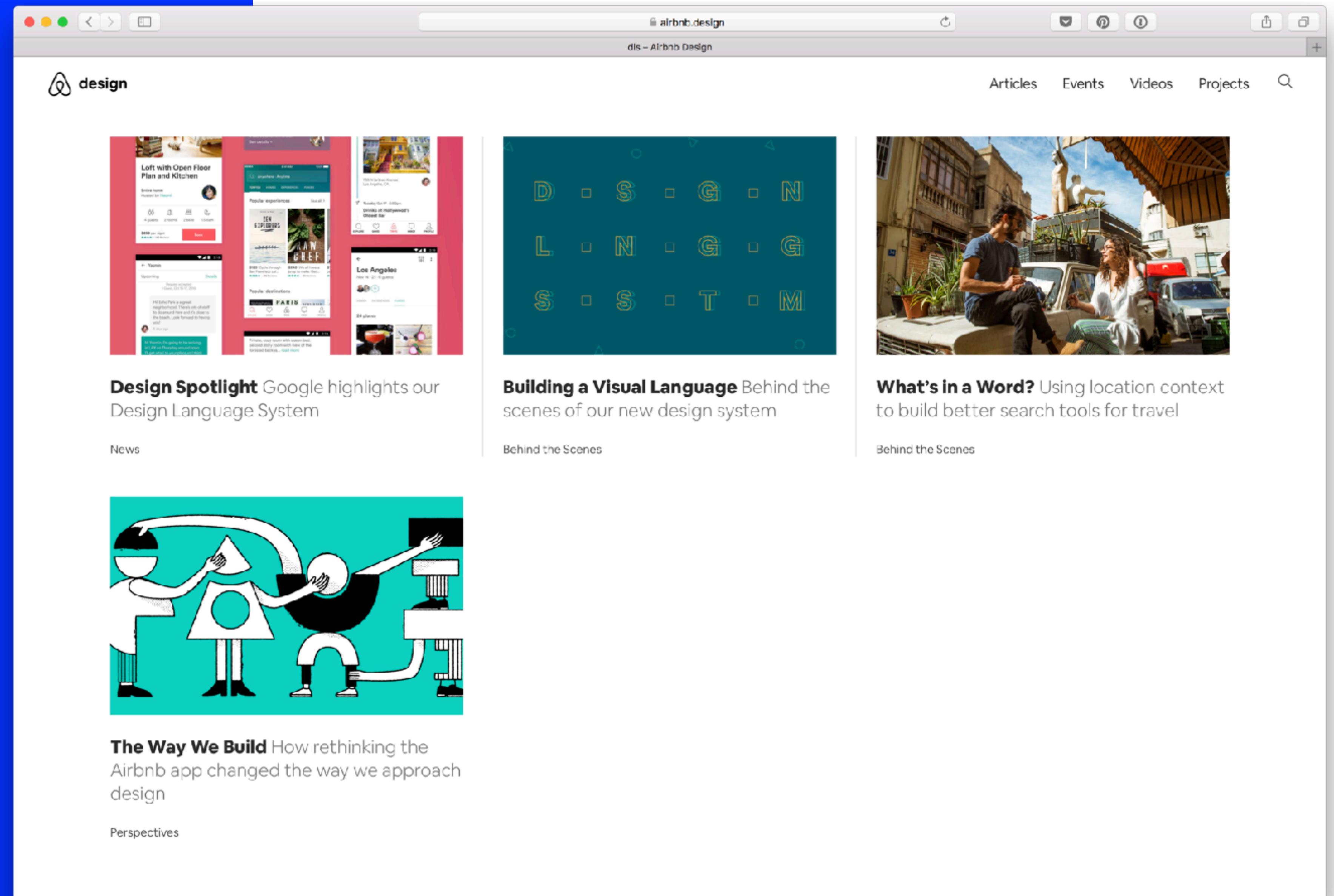
Basics



Components



Design Culture



Design Systems...

- ... help designers work faster
- ... improve consistency
- ... create a shared language for designers and developers

Where do you build a Design System?

Where do you build a Design System?

Blank Canvas

?

Component Library

What we needed

A place for shared thinking

What we needed

A place that allows both structure and chaos

What we needed

A place for fragments and uncertainty

What we needed

Flexibility to suit a non-linear process

Core Aspects of DSK

- Direct Manipulation
- Trees
- Diverse Forms of Expression
- Open Development

Style

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Web App + File system

Languages & Formats

Backend
+ Frontend
+ Document
+ Config
= <3

Languages & Formats

Go
+ JavaScript
+ Markdown
+ YAML
= <3

Languages & Formats

Go

+ ReasonML

+ HTML

+ JSON

= <3

Languages & Formats

Backend: fixed

+ Frontend: agnostic

+ Document: agnostic

+ Config: agnostic

= <3

The Design Definitions Tree

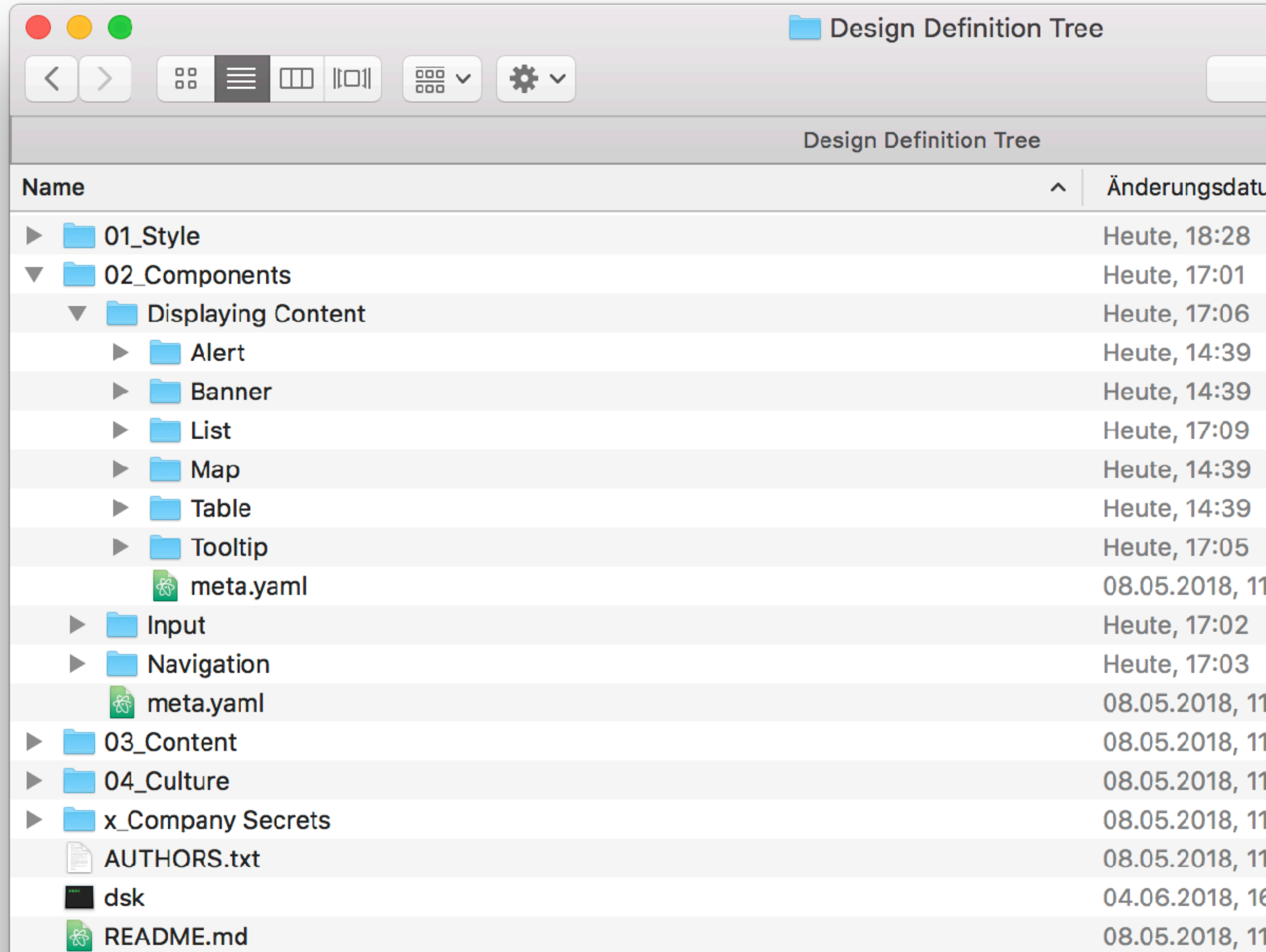
The Design Definitions Tree

“Just a bunch of files and folders”
freedom in storage and editing

Natural usage of folders and files
means less to learn

Little/not DSK specific
makes sense on their own

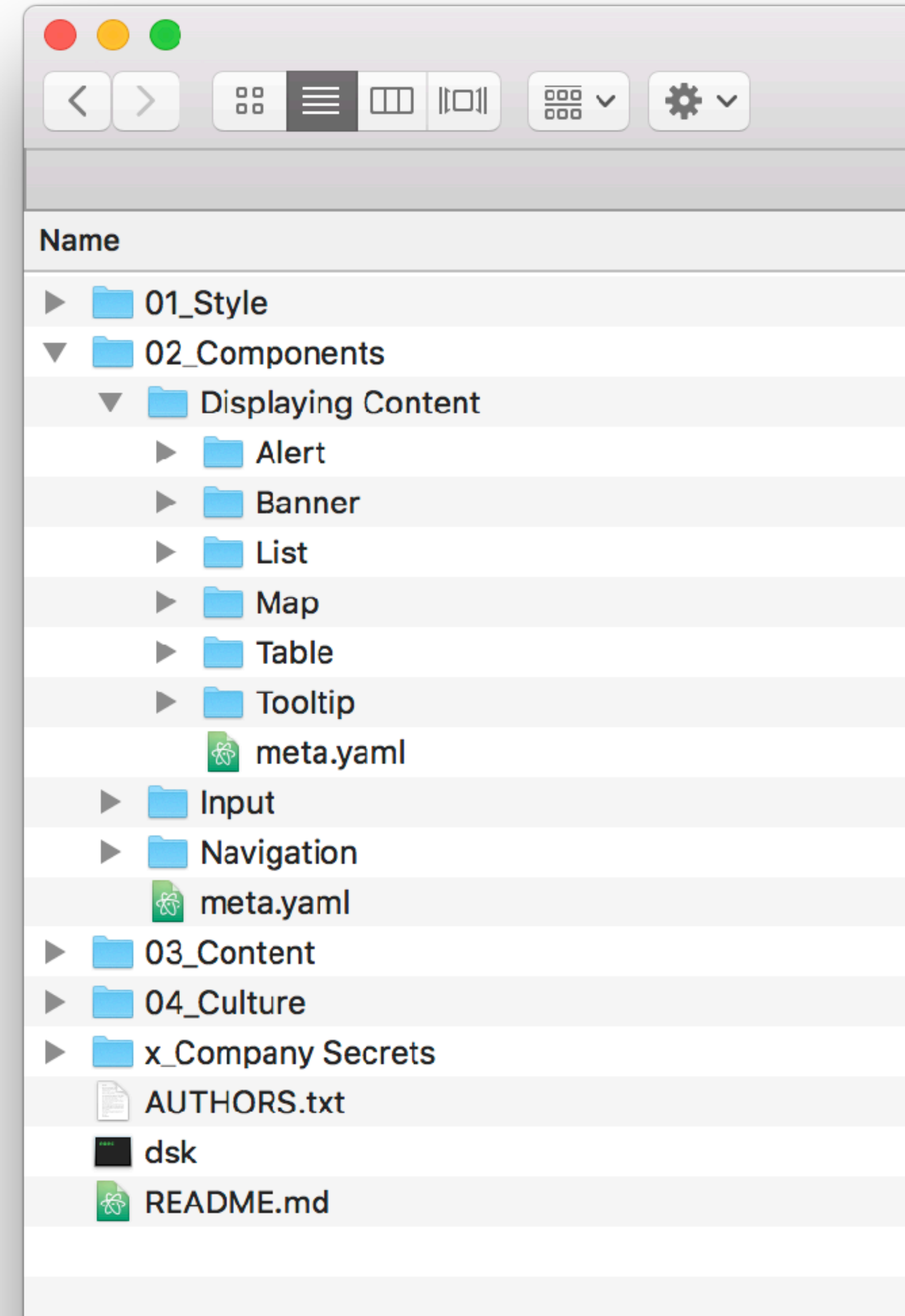
Folders



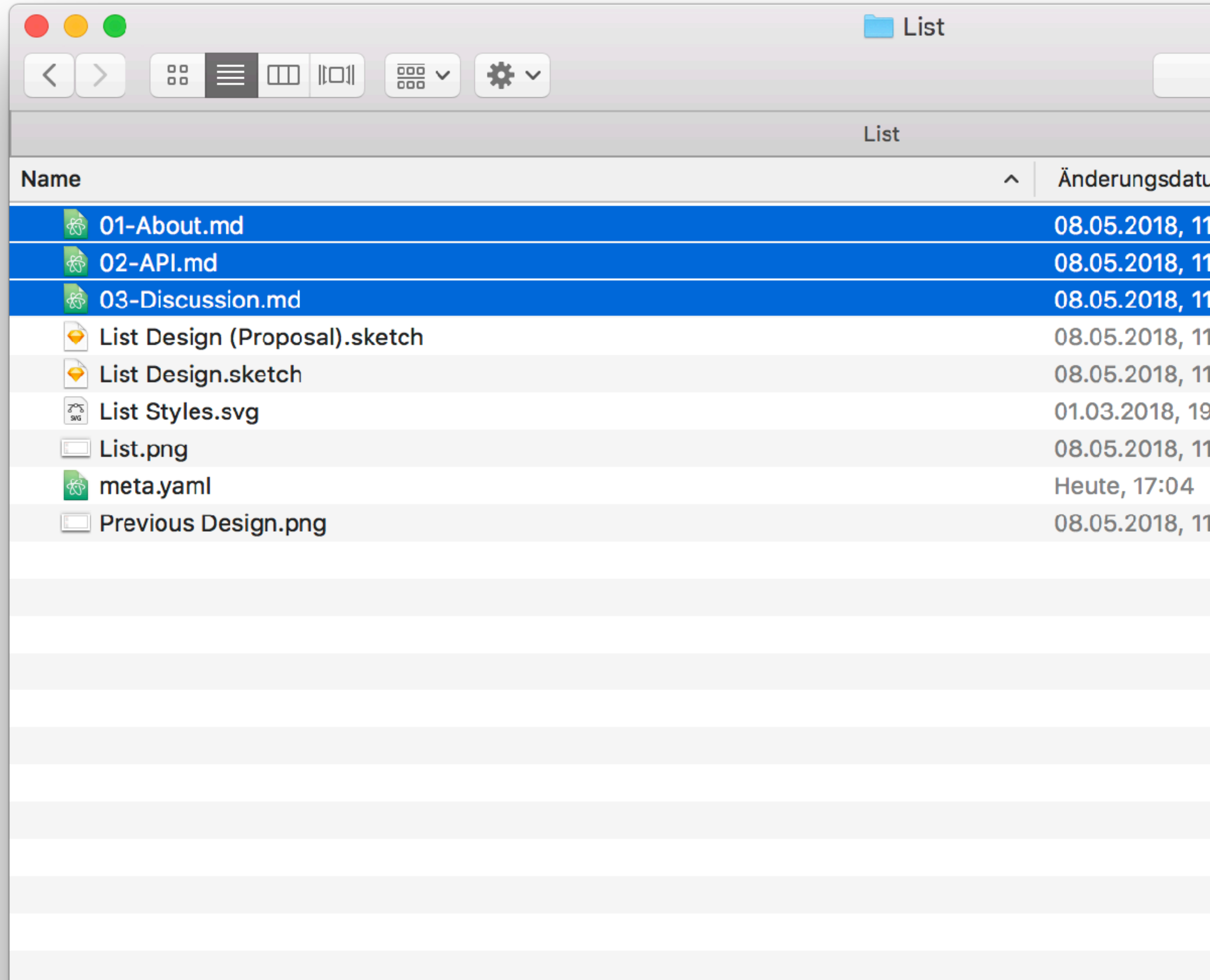
Design Definition Tree	
Name	Änderungsdatum
▶ 01_Style	Heute, 18:28
▼ 02_Components	Heute, 17:01
▼ Displaying Content	Heute, 17:06
▶ Alert	Heute, 14:39
▶ Banner	Heute, 14:39
▶ List	Heute, 17:09
▶ Map	Heute, 14:39
▶ Table	Heute, 14:39
▶ Tooltip	Heute, 17:05
meta.yaml	08.05.2018, 11
▶ Input	Heute, 17:02
▶ Navigation	Heute, 17:03
meta.yaml	08.05.2018, 11
▶ 03_Content	08.05.2018, 11
▶ 04_Culture	08.05.2018, 11
▶ x_Company Secrets	08.05.2018, 11
AUTHORS.txt	08.05.2018, 11
dsk	04.06.2018, 16
README.md	08.05.2018, 11

Folders represent...

- components
- chapters
- design aspects



Documents



...to explain

Visual Design

The following visual design has been agreed upon by our team:

![detail screen](List.png)

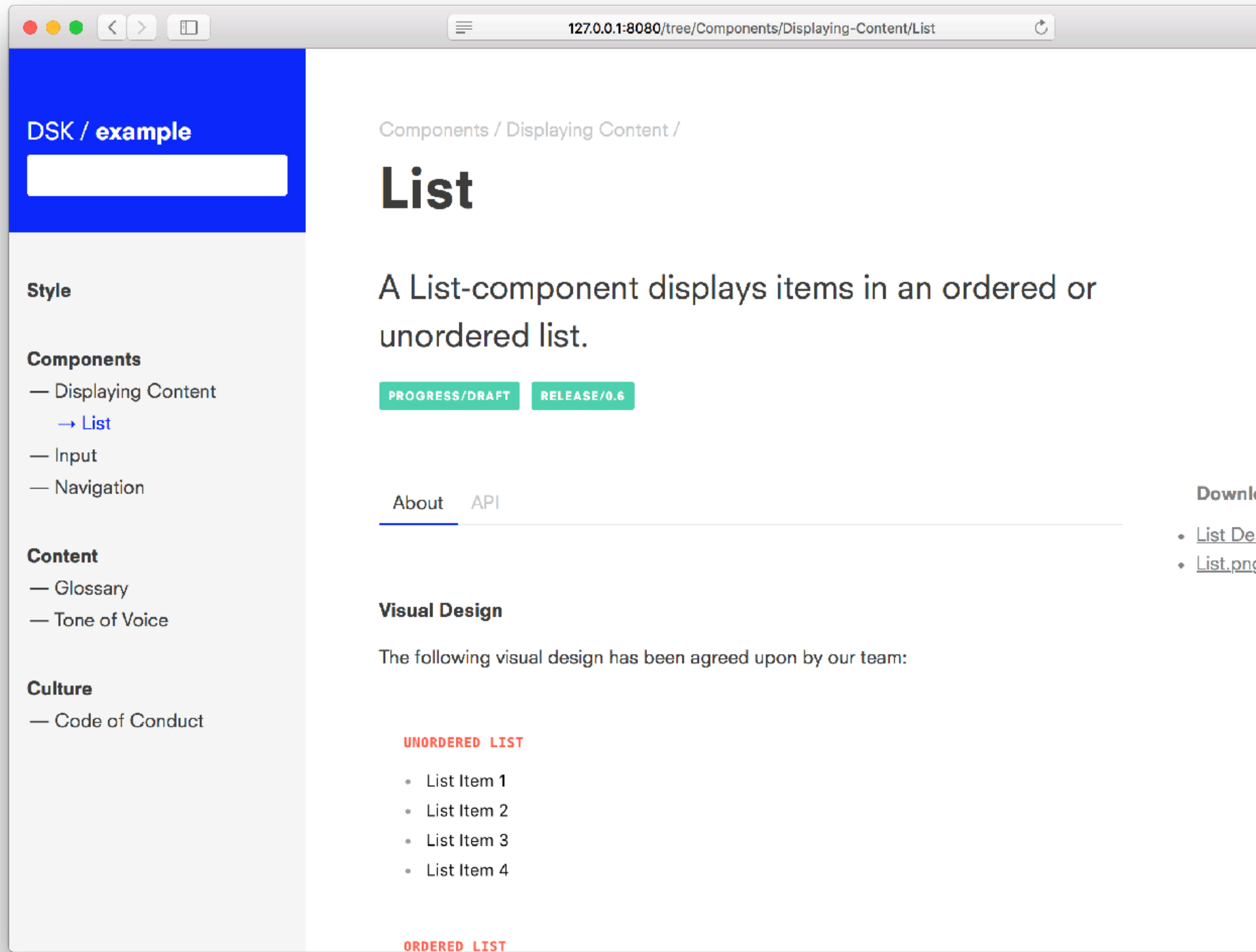
Usage Rules

We use lists when we have to convey large amounts of information, but still keep it well structured. As they can easily grow very large, we try to keep the number of lists in our interfaces down to a minimum.

Not to be confused with ...

We use both lists and [tables](/Components/Display) to display content in an orderly fashion, list are to be used for listed data, while table must only be used for tabular data. Duh.

...to explain



...to describe

Example

```

```
<List>
```

```
 <ListItem>Item 1</ListItem>
```

```
 <ListItem>Item 2</ListItem>
```

```
 <ListItem>Item 3</ListItem>
```

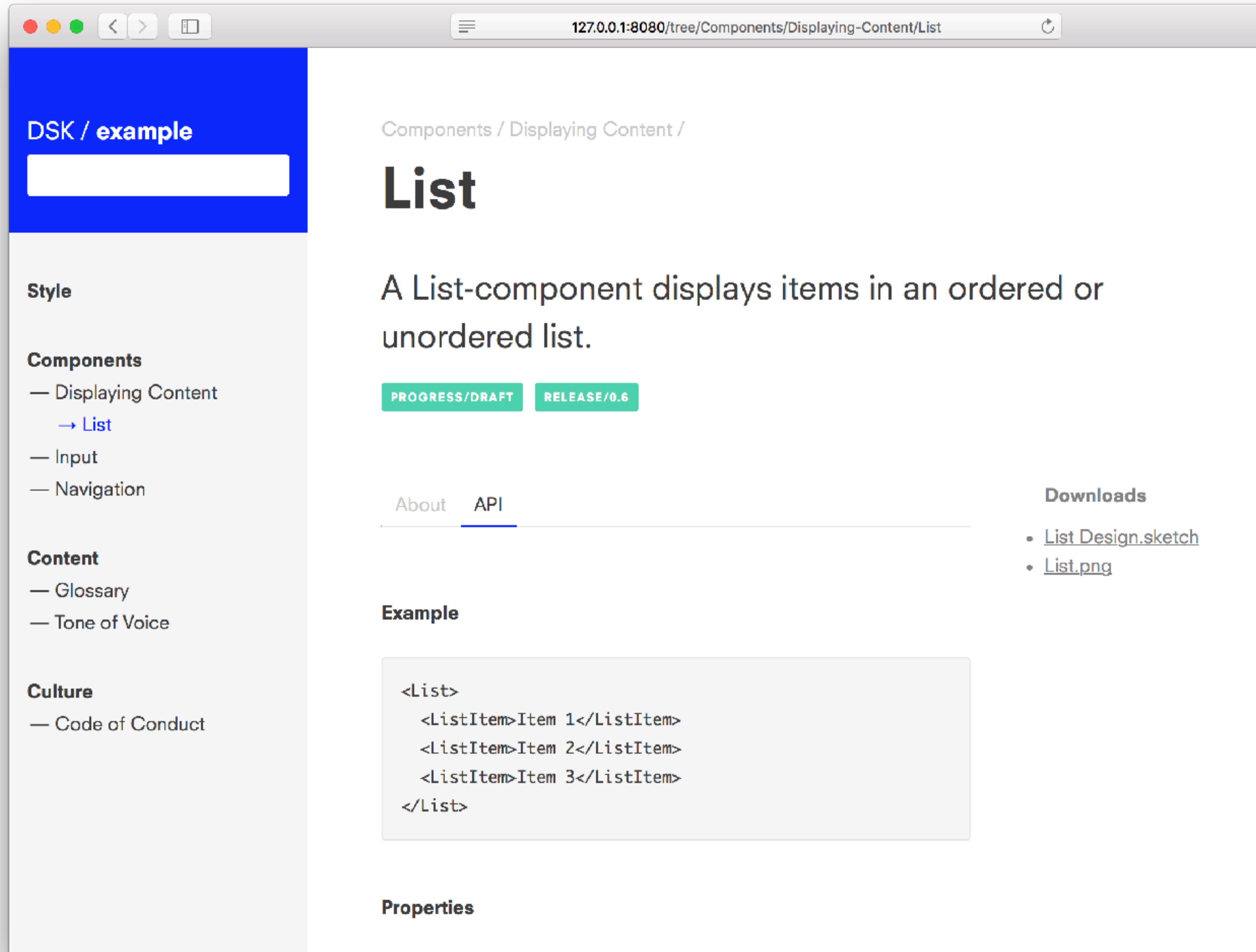
```
</List>
```

```

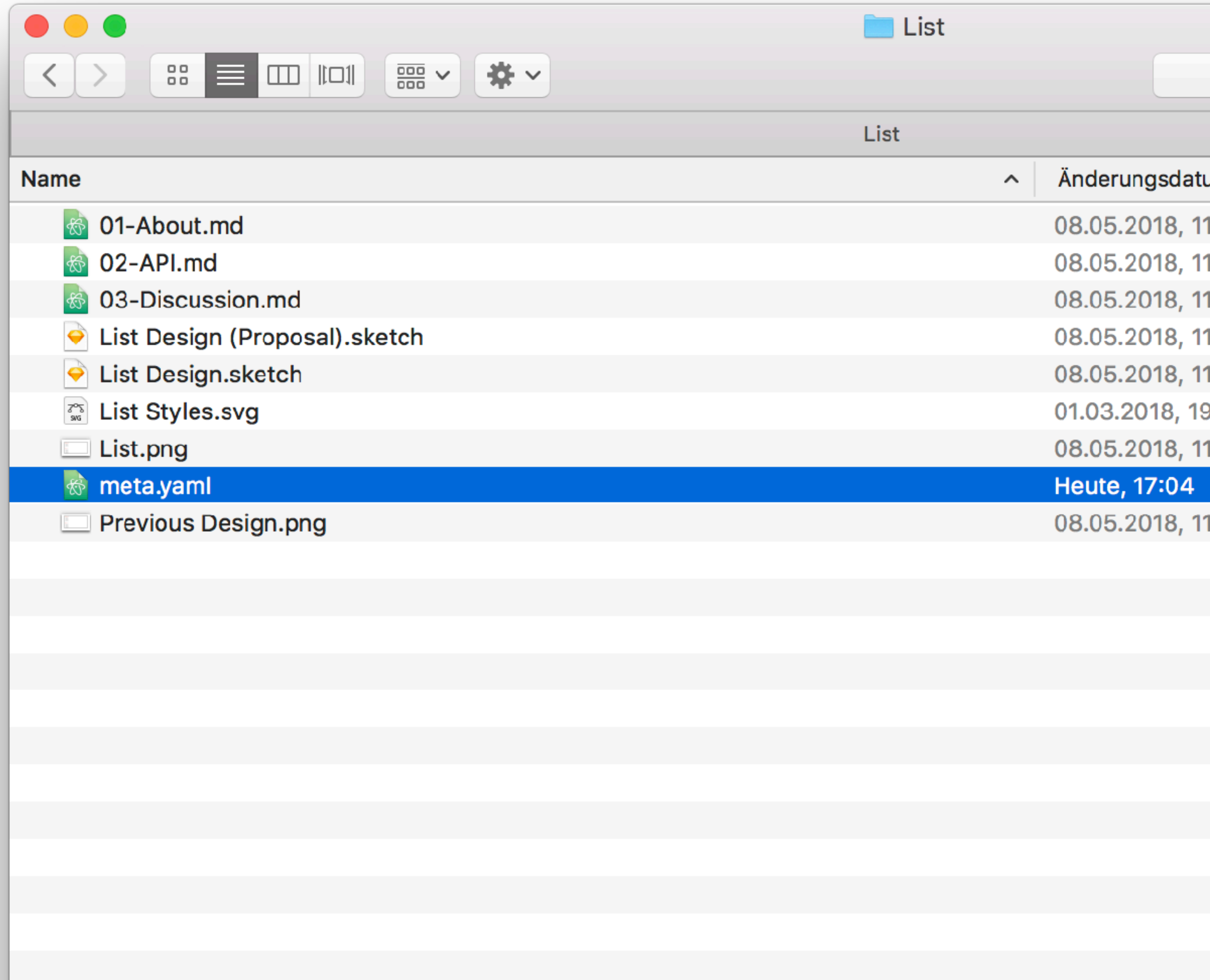
Properties

| Component | Property | Description |
|-----------|-------------|--|
| ----- | ----- | ----- |
| ListItem | `indicator` | Which indicator is to be displayed for the item. |

...to describe



Metadata



Metadata

description: >

A List-component displays items in an ordered or unordered list.

tags:

- Progress/Draft
- Release/0.6

version: 1

Claiming Ownership

authors:

- barb@hooli.com

description: >

A List-component displays items in an ordered or unordered list.

tags:

- Progress/Draft
- Release/0.6

version: 1

Name resolution

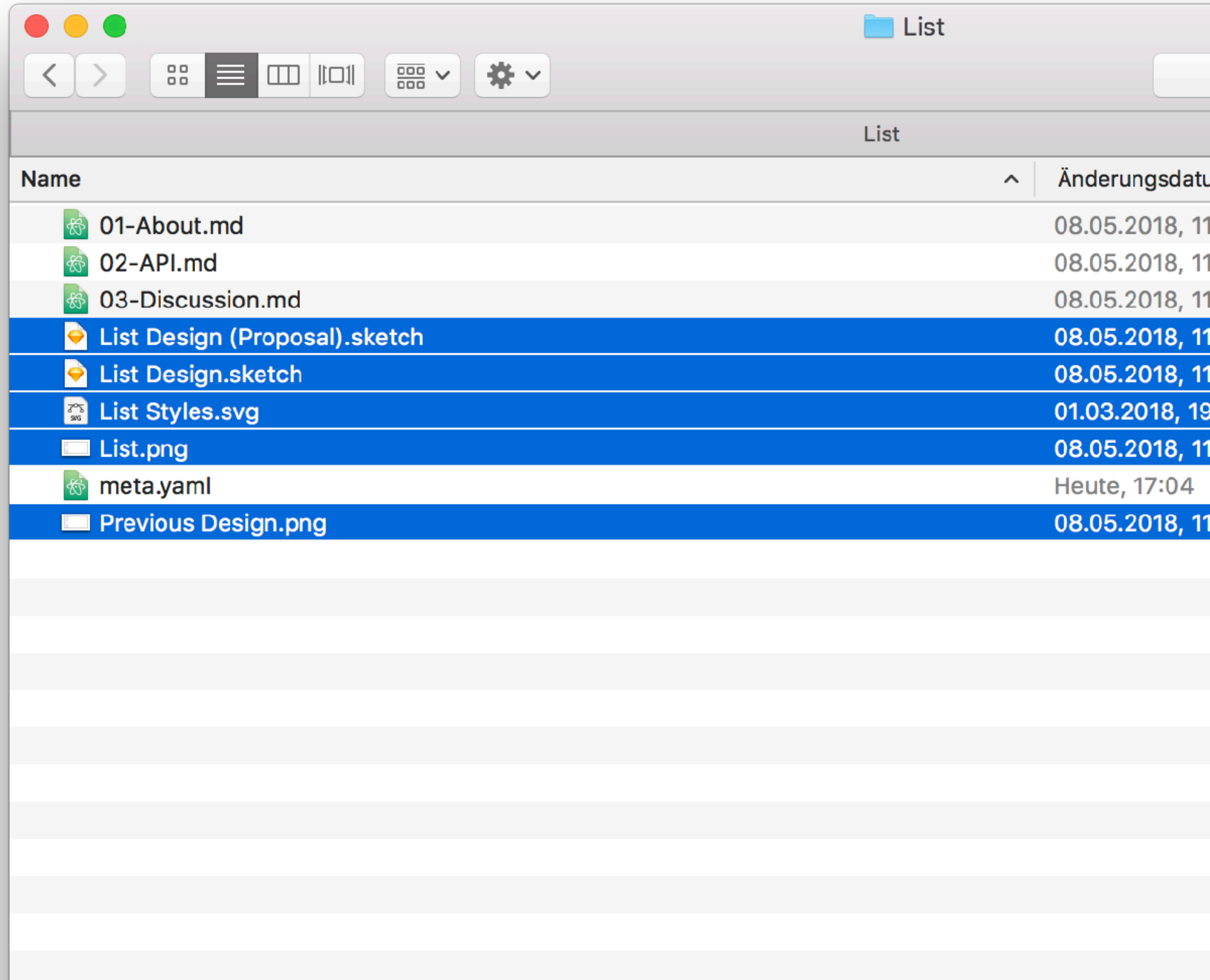
```
# AUTHORS.txt
```

```
Barbara M. Grayson <barb@hooli.com>
```

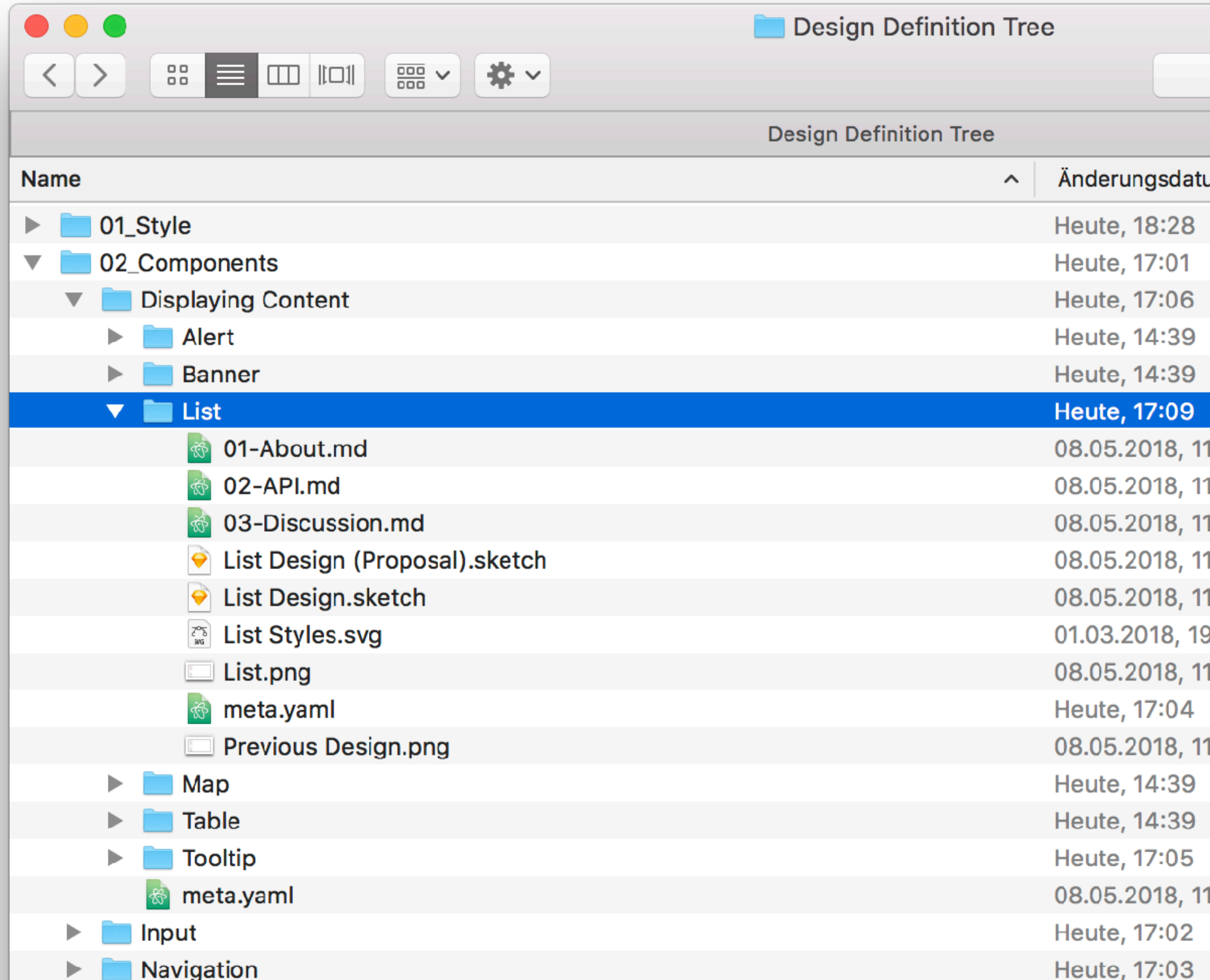
```
Melisa Mosher <melisa@acme.io>
```

```
Randall Hyman <randall@evilcorp.org>
```

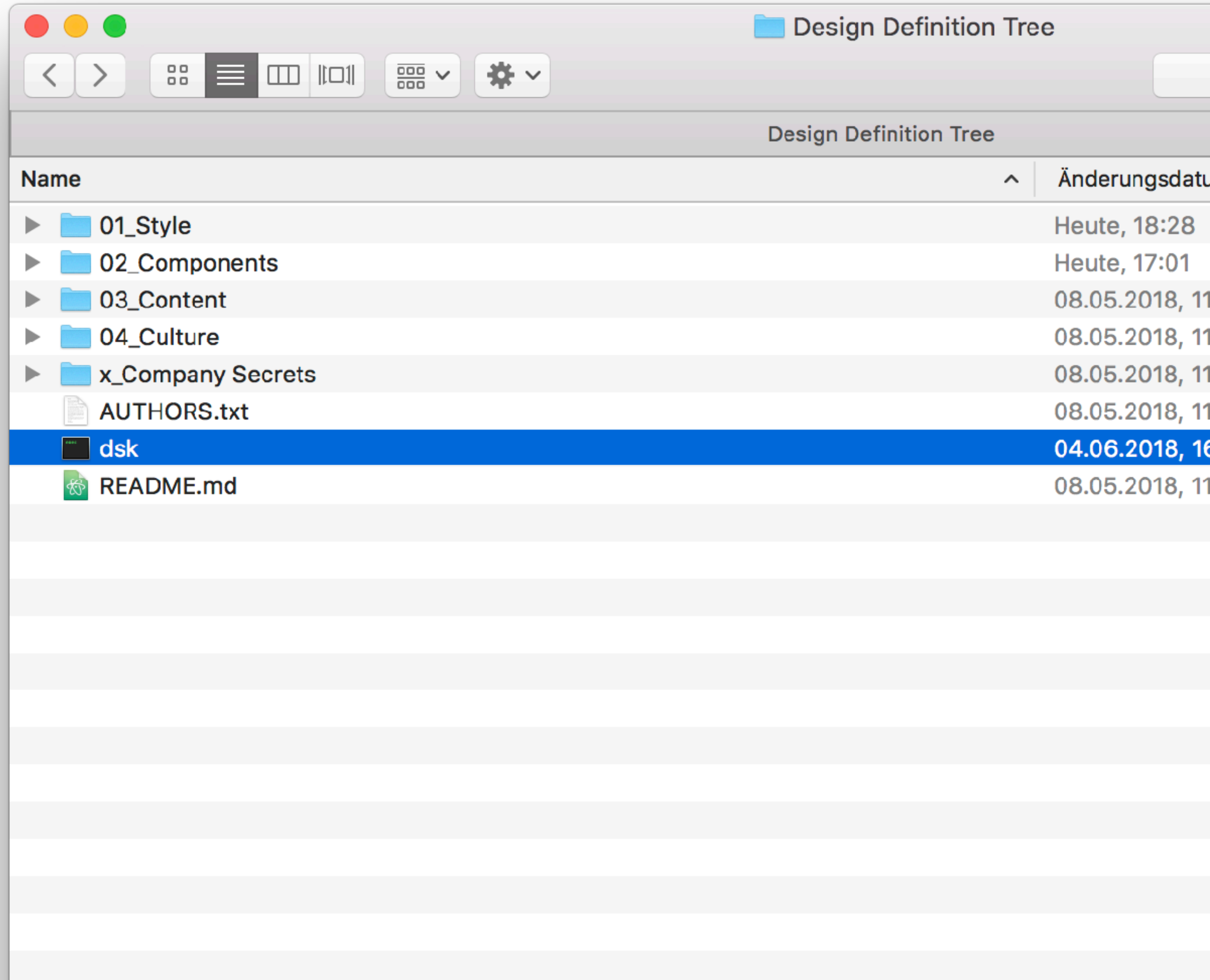
Assets



Nesting



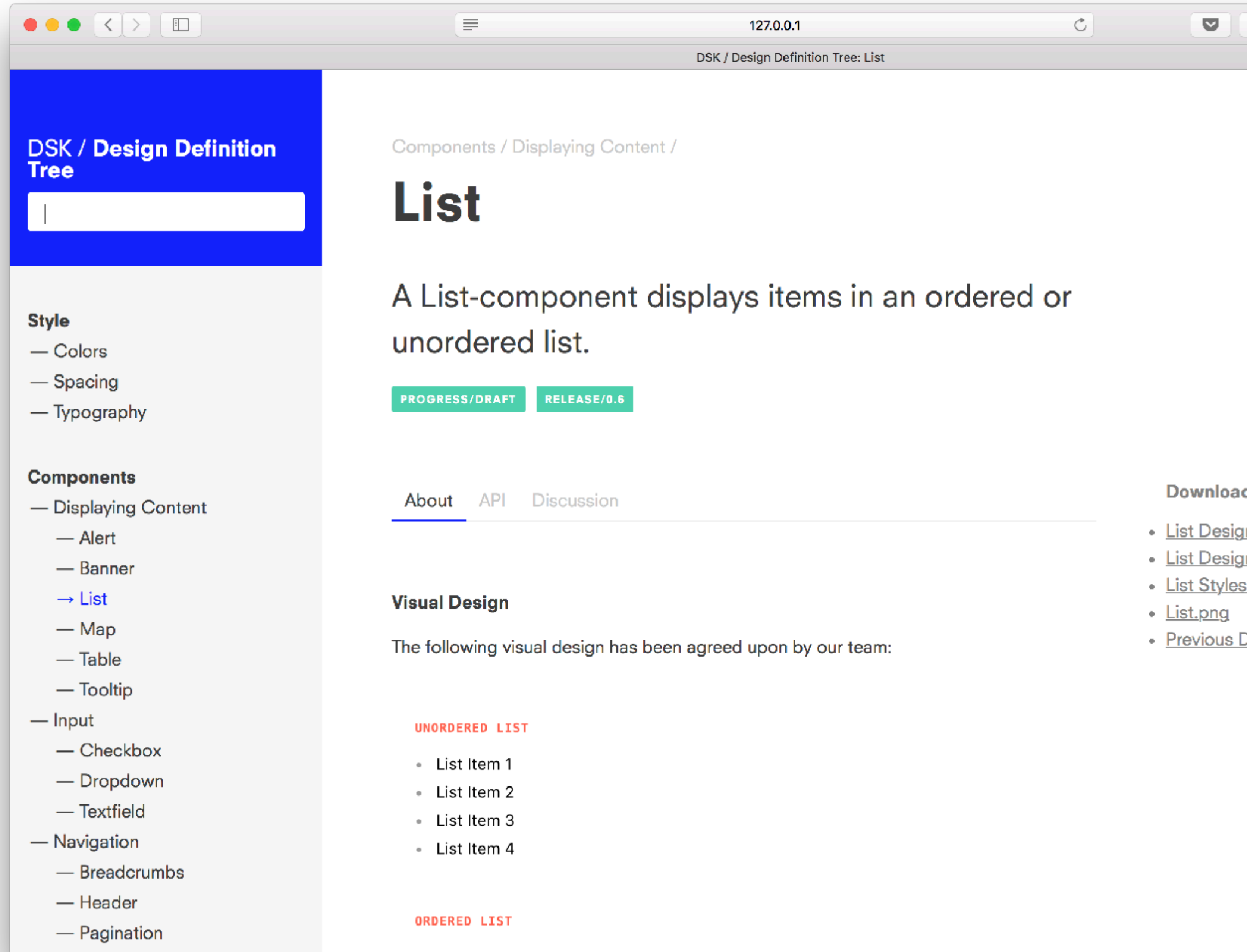
Starting DSK



Starting DSK

```
christophlabacher — dsk — dsk —  
Last login: Mon Jun 11 18:28:50 on ttys000  
/Users/christophlabacher/go/src/github.com/atelierdisko/dsk/Design  
~ > /Users/christophlabacher/go/src/github.com/atelierdisko/dsk/Design  
DSK  
Version head-549927b  
  
Starting message broker...  
Detecting tree root...  
Tree root found: /Users/christophlabacher/go/src/github.com/atelierdisko/dsk/Design  
Begin watching tree for changes...  
Opening tree...  
Synced tree with 27 total node/s in 20.416925ms  
Mounting APIv1...  
Mounting frontend...  
Starting web interface on 127.0.0.1:8080....  
  
Please visit: http://127.0.0.1:8080  
Hit Ctrl+C to quit
```

Starting DSK



Deployments

Getting it out there

Getting it to the user

App = Dropbox

Content = Dropbox

Getting it to the user

App = Dropbox

Content = Git

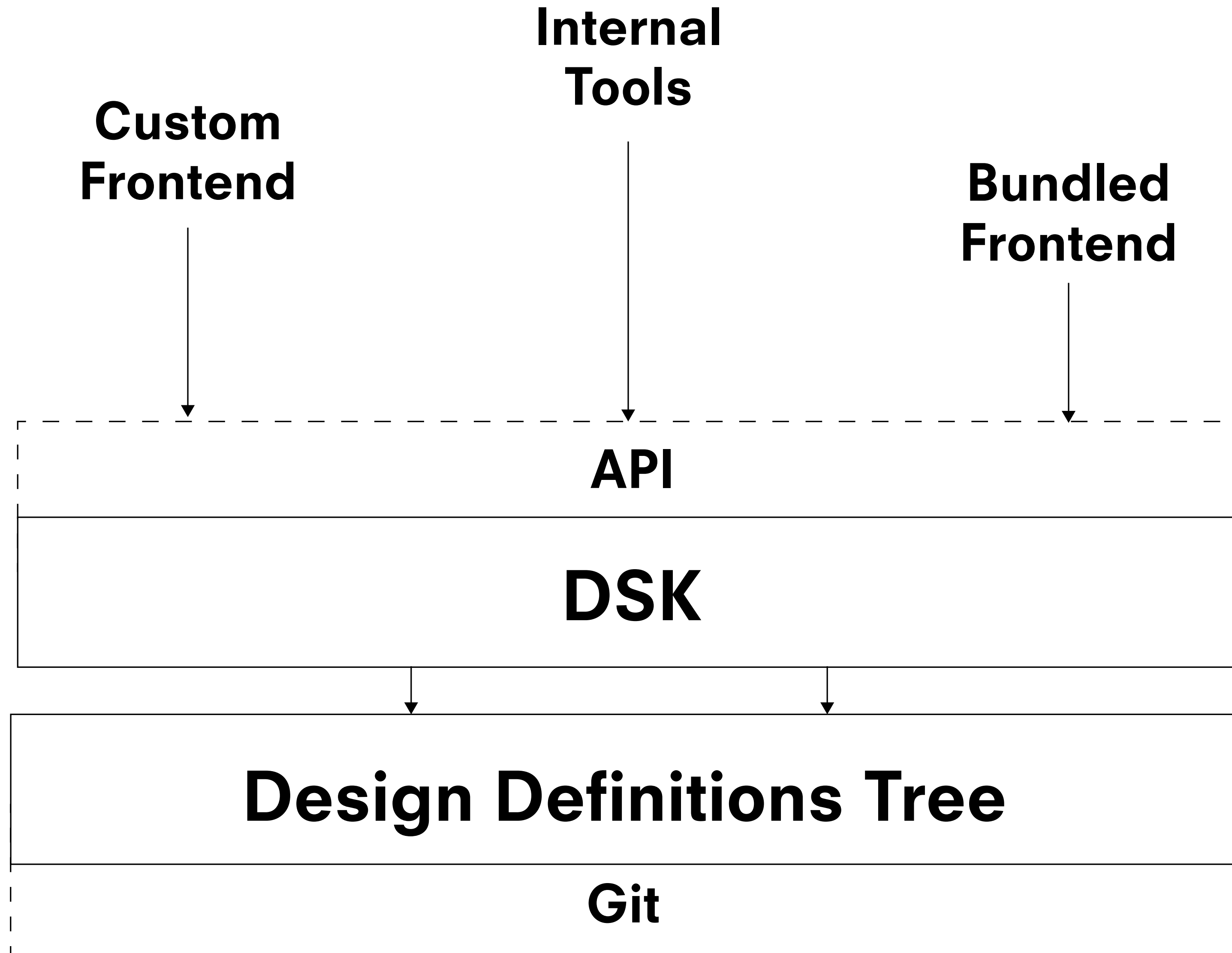
Getting it to the user

App = Server

Content = Git

Architecture

Architecture



API

API Endpoints

/hello

/tree

/tree/{path}

/tree/{path}/{asset}

/search?q={query}

/messages

API Endpoints

`/hello` (version and greeting)

`/tree` (full tree)

`/tree/{path}` (single aspect)

`/tree/{path}/{asset}` (aspect asset)

`/search?q={query}` (fuzzy search)

`/messages` (websocket)

API Endpoints (versioned)

/api/v1/hello

/api/v1/tree

/api/v1/tree/{path}

/api/v1/tree/{path}/{asset}

/api/v1/search?q={query}

/api/v1/messages

API Response (Metadata)

```
{
  "hash": "d3f81...",
  "url": "Components/Displaying-Content/List",
  "title": "List",
  "description": "A List-component displays...",
  "authors": [
    {
      "email": "barb@hooli.com",
      "name": "Barbara M. Grayson"
    }
  ],
  "modified": 1528721196,
  "version": "1",
  "tags": [
    "Progress/Draft",
    "Release/0.6"
  ],
  ...
}
```

API Response (Documents)

```
...
"docs": [
  {
    "title": "About",
    "html": "<h1>Visual Design</h1>...",
    "raw": "# Visual Design..."
  },
  {
    "title": "API",
    "html": "<h1>Example</h1>...",
    "raw": "# Example..."
  }
],
"downloads": [
  {
    "url": "Components/Displaying-Content/List/List",
    "name": "List Design.sketch"
  },
  ...
],
...
```

API Response (Related)

```
...
"parent": {
  "url": "Components/Displaying-Content",
  "title": "Displaying Content"
},
"children": [...],
"crumbs": [
  {
    "url": "Components",
    "title": "Components"
  },
  ...
],
"related": [...],
"prev": { "url" ... },
"next": {
  "url": "Components/Input",
  "title": "Input"
}
}
```


Custom Frontend

Easy to build your own:

- Language Agnostic Frontend
- Decoupled Architecture
- Versioned API

Custom Frontend

From workbench to storefront

Future

- More Governance
- Classic Component Library
- Git Live Sync
- Native (Wrapper) App
- Fulltext search

Merci.

Atelier Disko

Design System Kit

Data Entry

— Data Entry

- Components
- Counter
- DatePicker
- MultiSelect
- SingleSelect
- Enumeration
- RadioButton
- TextField
- Email
- Number
- Password

Displaying Data

- Badge
- Carousel
- ExpandableSection
- Hyperlink
- List

Data Entry

- Components
- Counter
- DatePicker
- MultiSelect
- SingleSelect
- Enumeration
- RadioButton
- TextField
- Email
- Number
- Password

Displaying Data

- Badge
- Carousel
- ExpandableSection
- Hyperlink
- List

Merci.

Project page:

github.com/atelierdisko/dsk

Download these slides:

share.atelierdisko.de/where-dt2018.pdf