Handling Data with Source and Transformer Plugins

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Summary

Source plugins

Transformer plugins

Markdown files

Introducing Gatsby Plugins

Extend core functionality

Fetch content and data

Transform it

Add third party services

Build your own plugin

Packaged as NPM modules

Configured in gatsby-config.js

Gatsby plugins

Gatsby Source Plugins

Gatsby Source Plugins

Fetch data from their source

- CMS
- Local file system
- API's
- Etc.

Gatsby Source Plugins

gatsby-source-filesystem
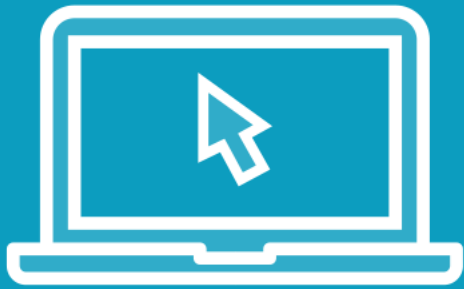
- Creates file Nodes from the file system

```
npm install --save gatsby-source-filesystem
```

Installing Gatsby Source FileSystem Plugin
Type this code in the command line

Demo

Gatsby source plugins

Introducing Markdown Files

Markdown

Convert it to many formats, most notably HTML

```
---
title: "Gatsby is awesome"
date: "2019-01-02"
image: "https://tld.com/gatsbyjs.jpg"
keywords: "blog"
---

#If you are reading this, you know Gatsby is awesome!

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua.
Ut enim ad minim veniam, quis nostrud exercitation ullamco
laboris nisi ut aliquip ex ea commodo consequat.
```

Markdown

Contain data for blog posts

```
---
title: "Gatsby is awesome"
date: "2019-01-02"
image: "https://tld.com/gatsbyjs.jpg"
keywords: "blog"
---

#If you are reading this, you know Gatsby is awesome!

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do
eiusmod tempor incididunt ut labore et dolore magna aliqua.
Ut enim ad minim veniam, quis nostrud exercitation ullamco
laboris nisi ut aliquip ex ea commodo consequat.
```

Markdown

One markdown file is equivalent to one post in the site

```
---
title: "Gatsby is awesome"
date: "2019-01-02"
image: "https://tld.com/gatsbyjs.jpg"
keywords: "blog"
---

#If you are reading this, you know Gatsby is awesome!

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
```
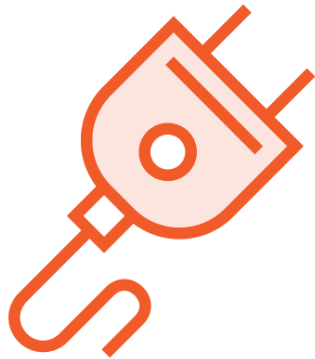
Demo

Creating Markdown files
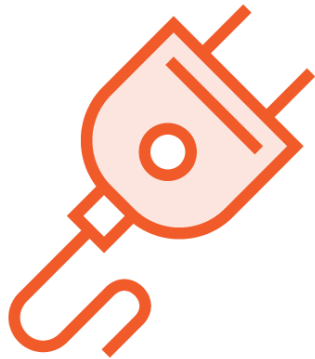
Gatsby Transformer Plugins

Gatsby Transformer Plugins

Transform data
- Markdown to JSON
- Etc.

Gatsby Transformer Plugins

gatsby-transformer-remark

- Parses Markdown files using Remark

```
npm install --save gatsby-transformer-remark
```

Installing Gatsby Transformer Remark
Type this code in the command line

Demo

Gatsby transformer plugins

Demo

Creating article components

Summary

Gatsby has 100's of plugins available

Fetch content and data

Transform data

Access third party services

Build your own plugin

Download plugins as NPM modules

Configure them in gatsby-config.js

Two types of plugins: Source and Transformer plugins

Summary

Source plugins fetch data

We fetched a list of markdown files

Transformed markdown metadata to JSON

Front Matter adds metadata to a Markdown file