

Angular 2 and Hexo

Static Meets Dynamic For the Best of Both Worlds!



Code

Career

Academy

Who am I?

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Code Career
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25 Years
Professional
Experience
in Software



What *is* a Static Website Generator?

- Store content as text files of Markdown and YAML



Sample Post Format

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What *is* a Static Website Generator?

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- Run processor *locally* to convert to HTML files
- Version with Git
- Deploy with Git
- Serve plain files via *any* web server



Why Would I Want One?

- Speed
- Scalability
- Reliability
- Lower Attack Surface
- Version Control
- Tools
- Zero Lock-in



When does it make sense?

- Primarily content site
 - Blog
 - “Brochure-ware” Site



When does it NOT make sense?

- Everything else...
 - It's not called a "General Purpose Site Generator" ...



Traditional CMS: Writing



Traditional CMS: Writing



Traditional CMS: Writing



Traditional CMS: Reading



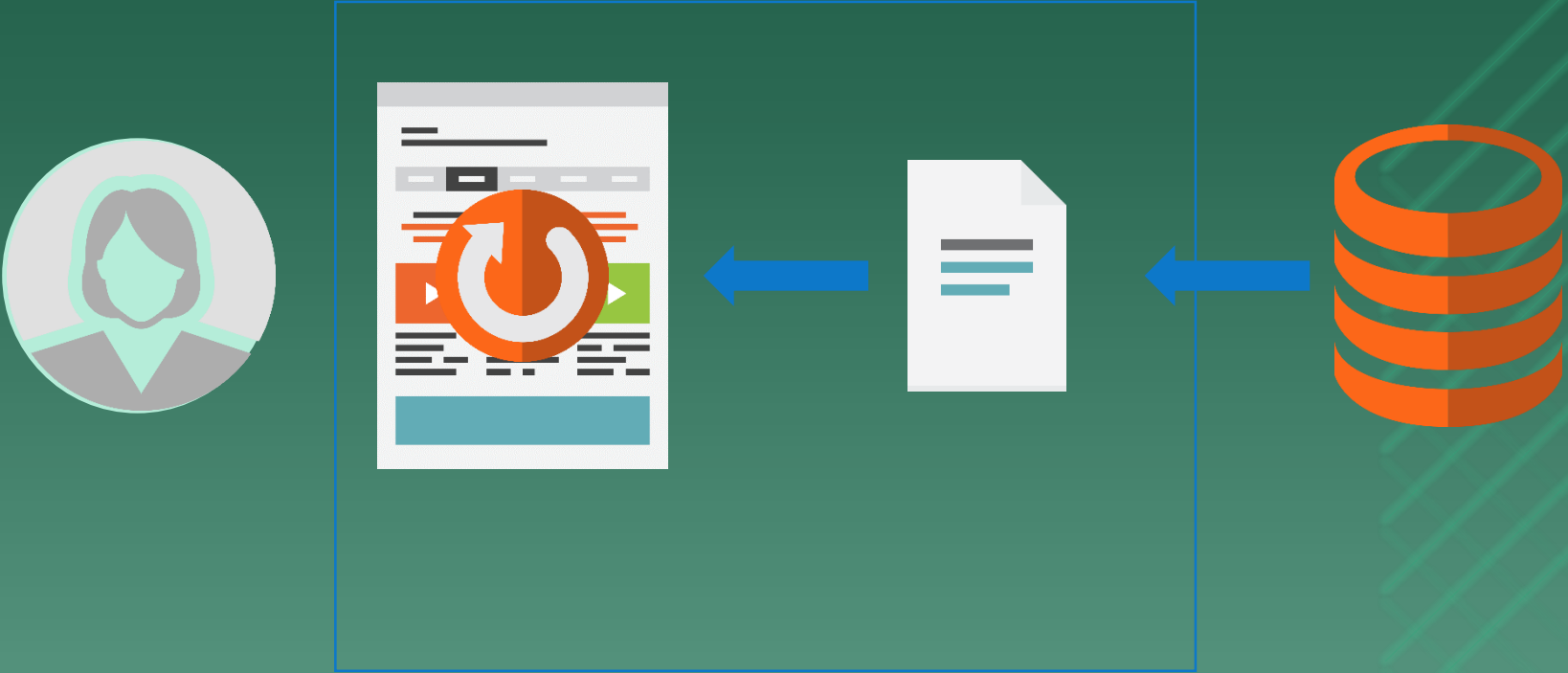
Traditional CMS: Reading



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Traditional CMS: Reading



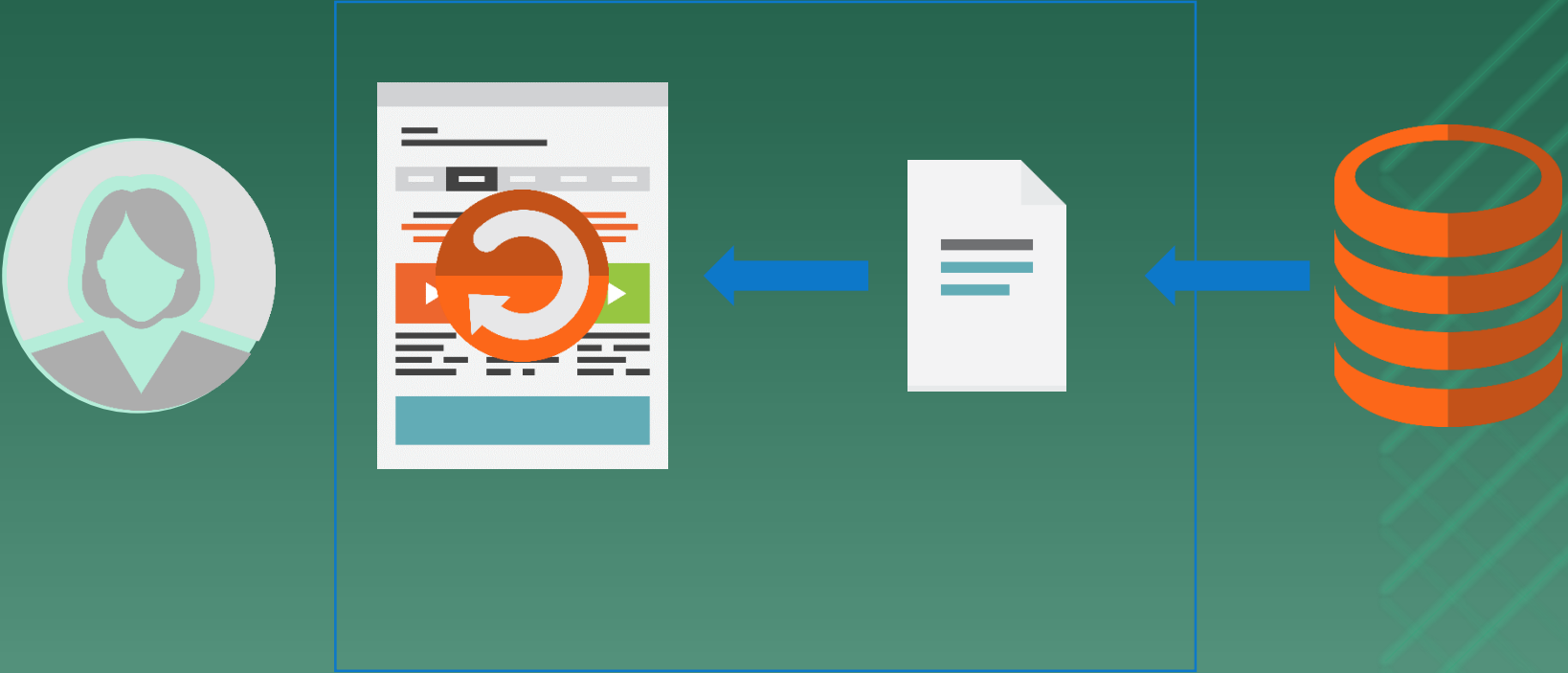
Traditional CMS: Reading



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Static Site Generator: Writing



Static Site Generator: Writing



Static Site Generator: Writing



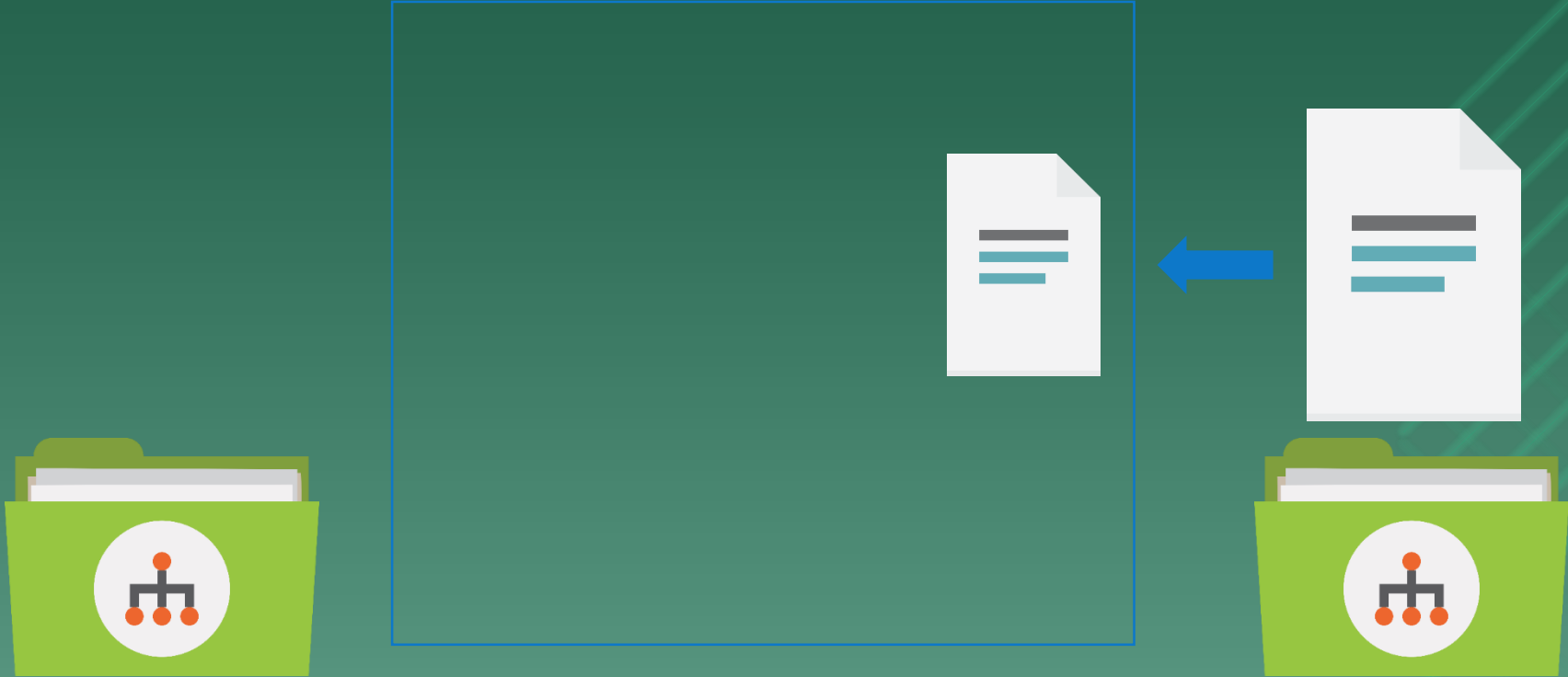
Static Site Generator: Generating



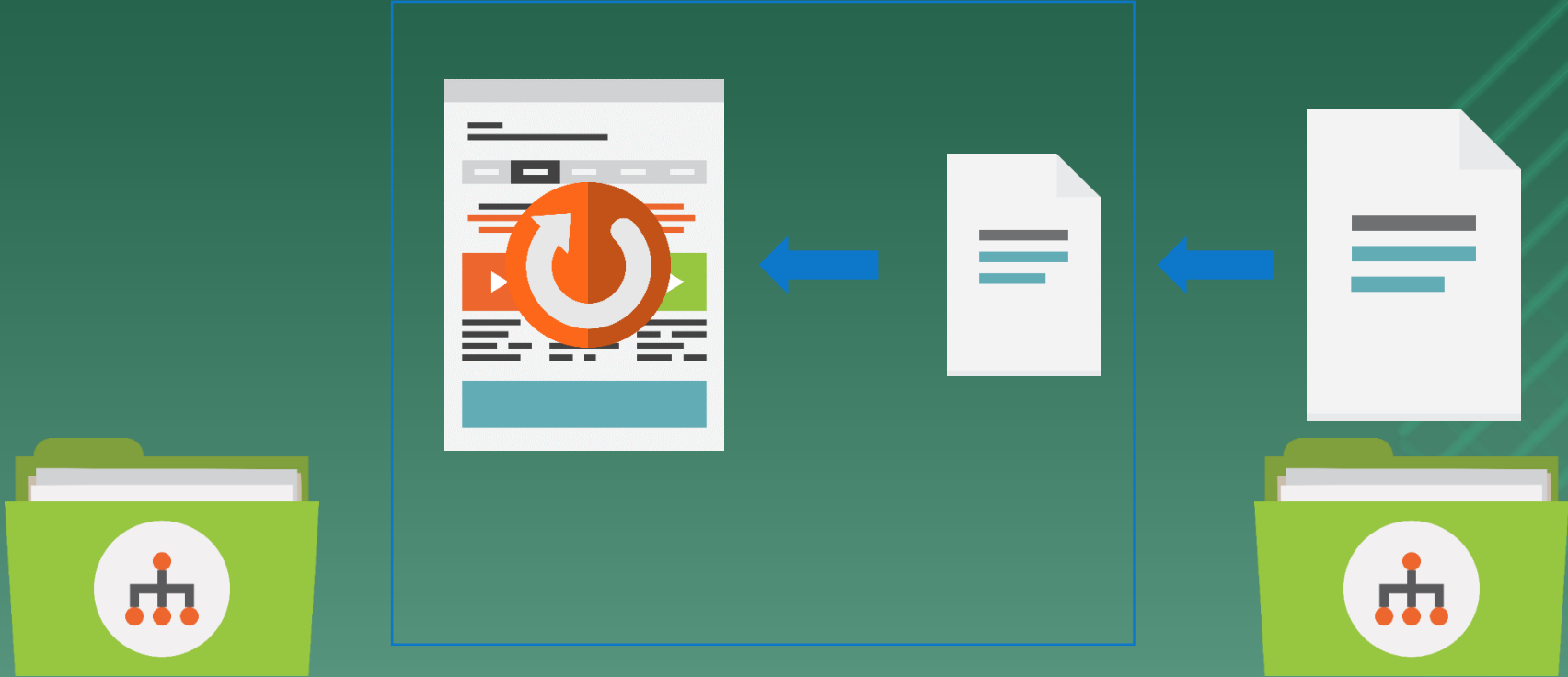
Static Site Generator: Generating



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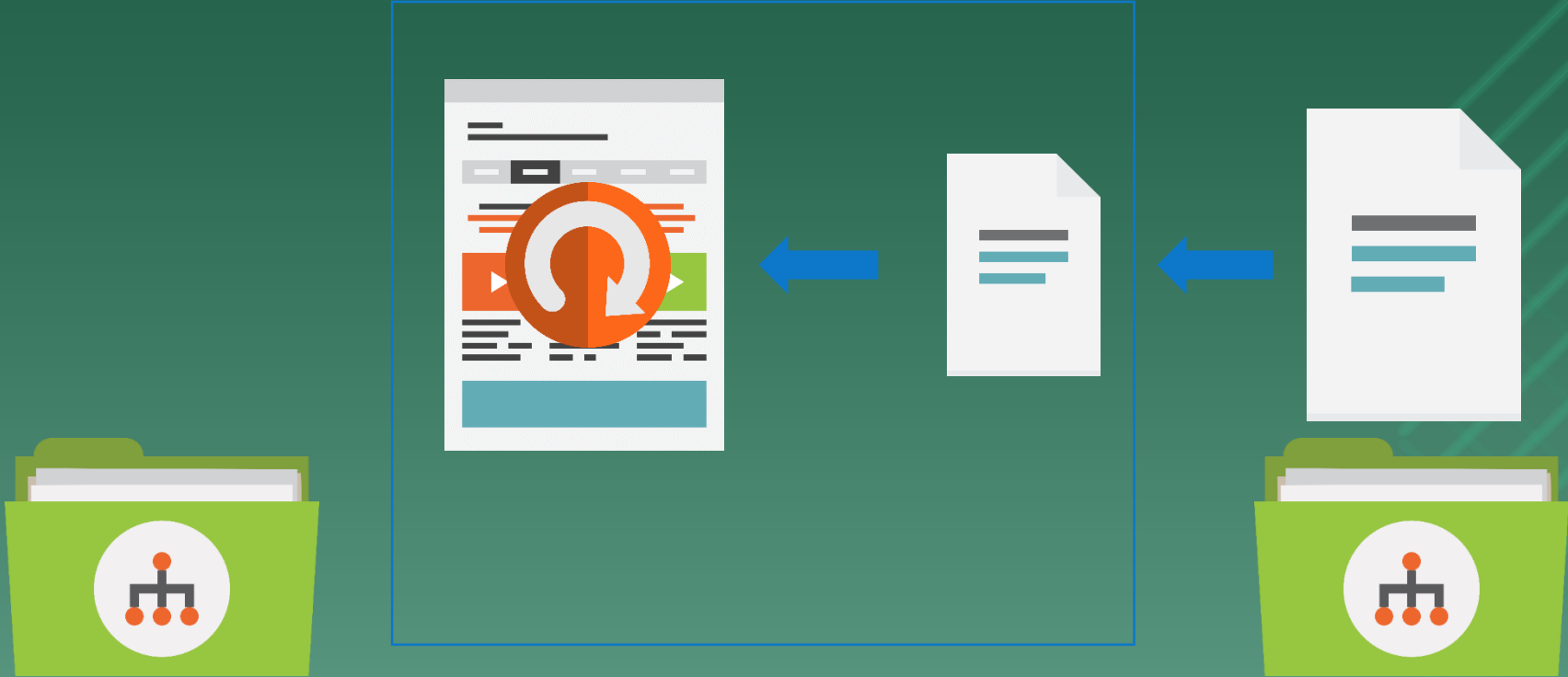
Static Site Generator: Generating



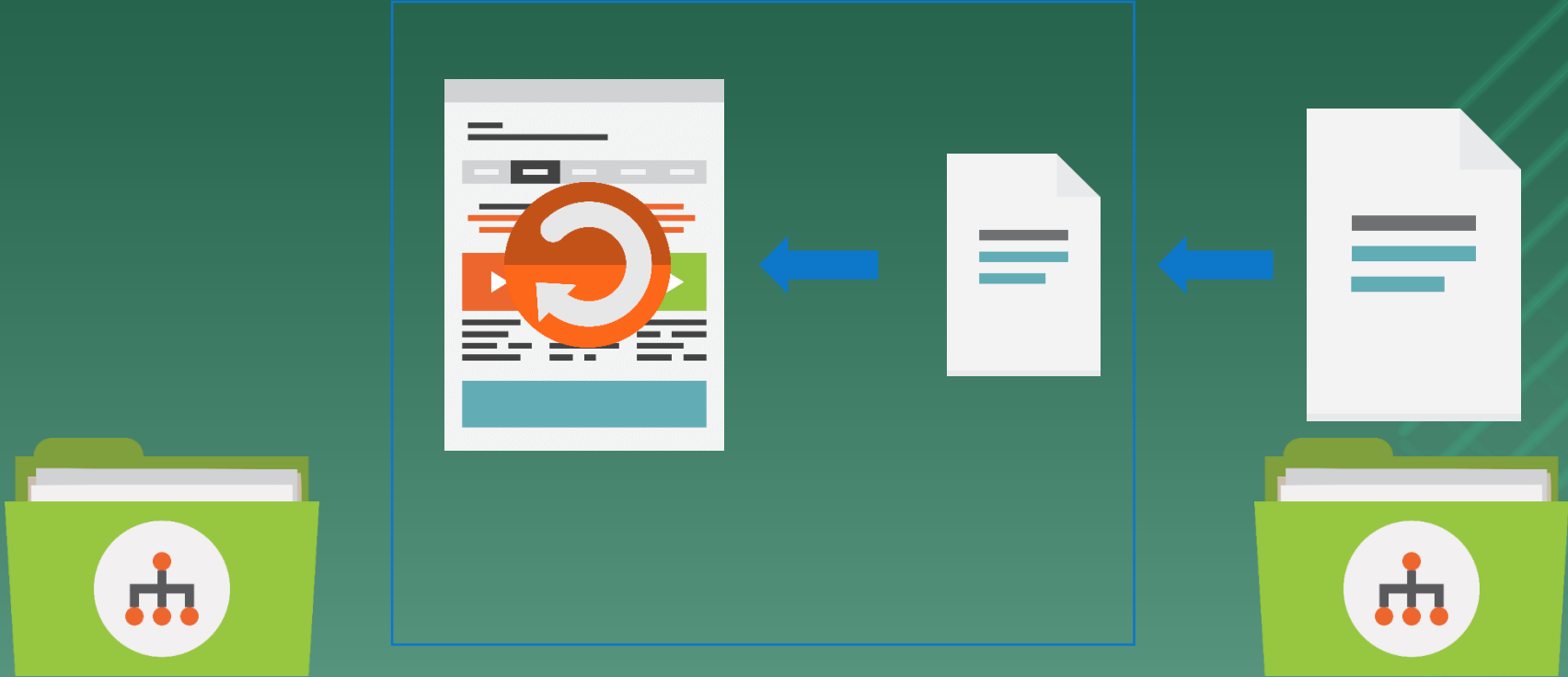
Static Site Generator: Generating



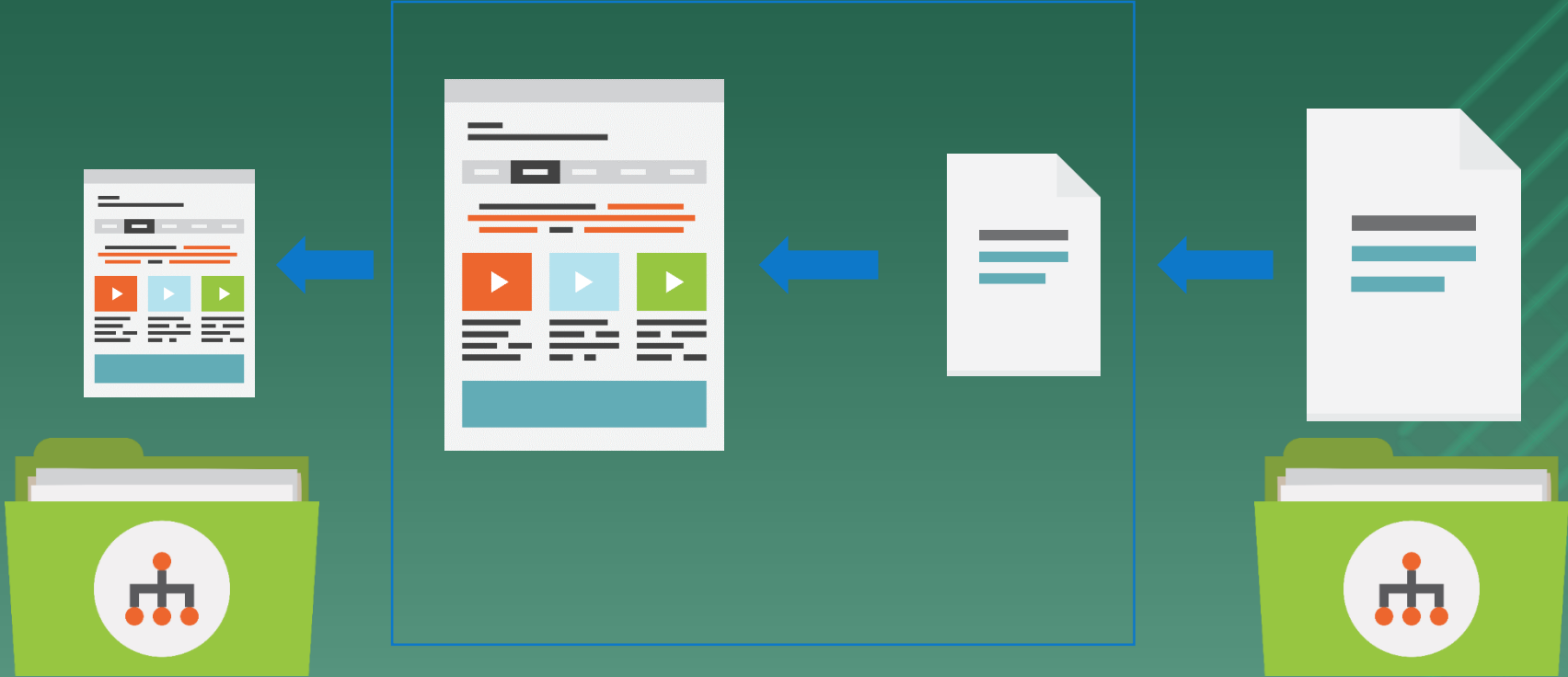
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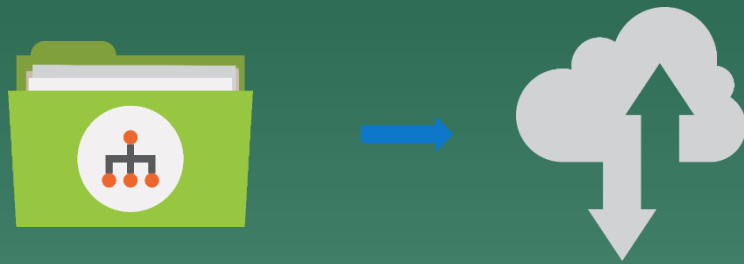
Static Site Generator: Generating



Static Site Generator: Publishing



Static Site Generator: Publishing



Static Site Generator: Publishing



Static Site Generator: Reading



Static Site Generator: Reading



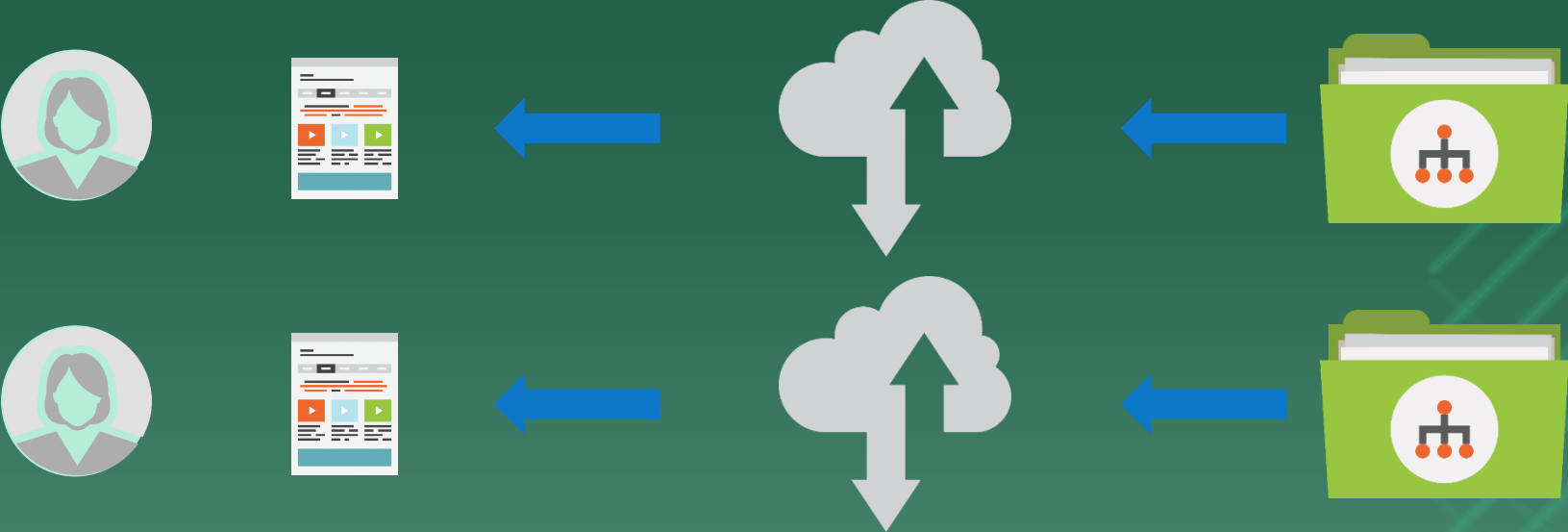
Static Site Generator: Reading



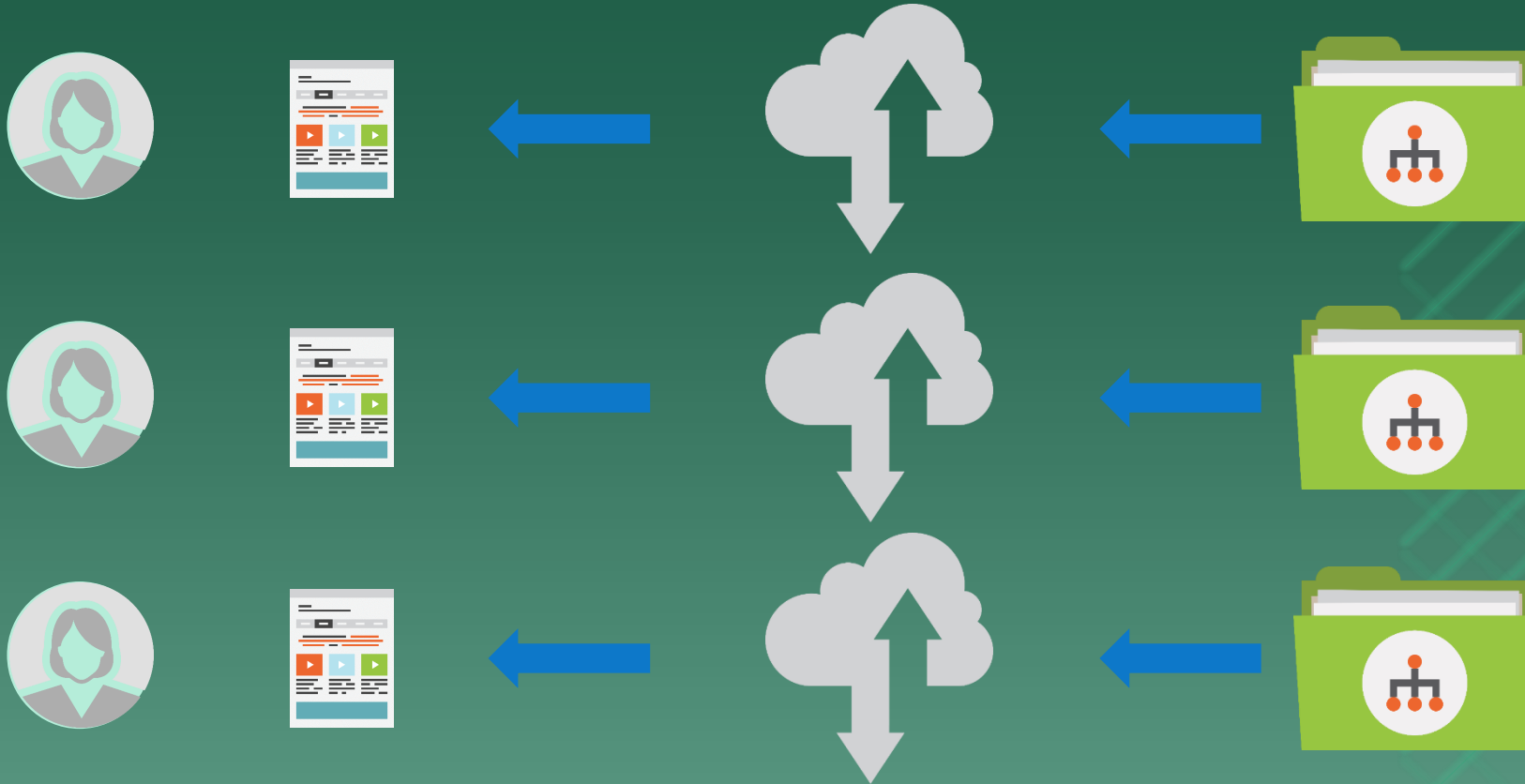
Static Site Generator: Scaling



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Static Site Generator: Scaling



**Common
Post Format**

**YAML
Markdown**



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YAML

YAML Ain't Markup Language

YAML is a human friendly data serialization standard for all programming languages.

Source: yaml.org



Markdown

Markdown is a text-to-HTML conversion tool for web writers. Markdown allows you to write using an easy-to-read, easy-to-write plain text format, then convert it to structurally valid XHTML (or HTML).

Source: <http://daringfireball.net/projects/markdown/>



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Prerequisites

- Node.js
- Npm
- Git
- Text editor



Which Text Editor Should I Use?

- Sublime Text
- Visual Studio Code
- Atom
- Notepad++
- Vim
- Emacs
- [Insert any other editor you like here]



Hexo

- Super simple
- Fast
- Easy to work with



Super Easy Install

```
npm install hexo-cli -g
```



Create a New Blog

```
hexo init
```

```
npm install
```



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Create a New post

```
hexo new "My New Post"
```

```
hexo new post "My New Post"
```



Test Blog Locally

hexo server



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Generate Blog for Publishing

hexo generate



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Just Enough Git

```
git init
```

```
git add .
```

```
git commit -m "My commit message"
```

```
git push origin master
```



Where Can I Deploy my Blog?

- GitHub Pages
- Azure Web App
- Windows Server
- Linux Server
- Raspberry Pi
- ... Any web server



For Full Instructions...

- Check out my Pluralsight course!
 - Build a Better Blog with a Static Site Generator
 - <https://www.pluralsight.com/courses/static-site-generator-build-better-blog>

How About the Dynamic Bits??

- Hexo Widgets
- UI Elements supported by many themes
- Angular 2 Components are a nice fit
- Keep the static bits static and the dynamic bits dynamic!





jeffa.tech

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Dynamic
Widget

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Seasoning

- Dynamic widgets should be the salt and pepper on static content sites
 - Don't over do it!
 - Otherwise it was never really a static content site

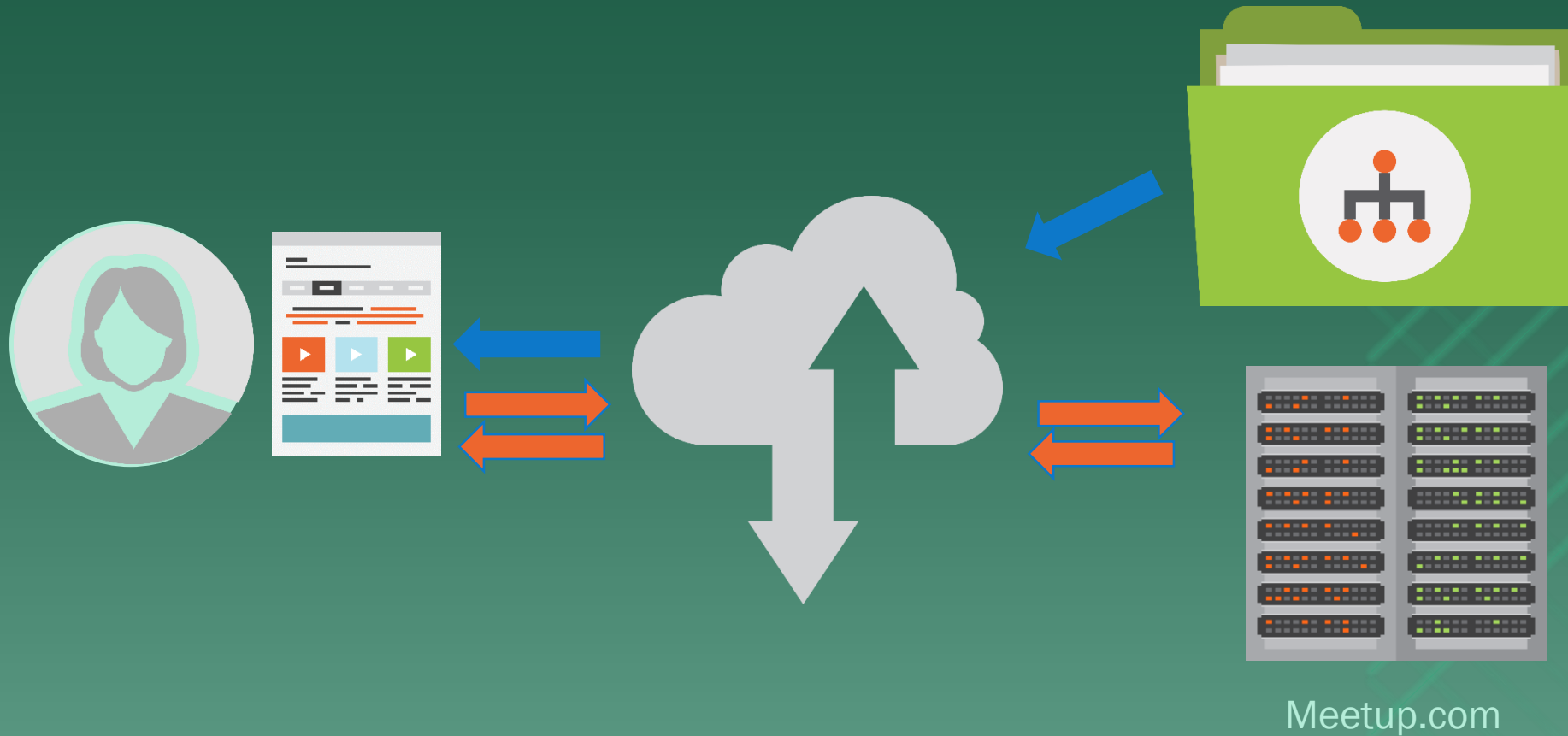


Where can I get dynamic content?

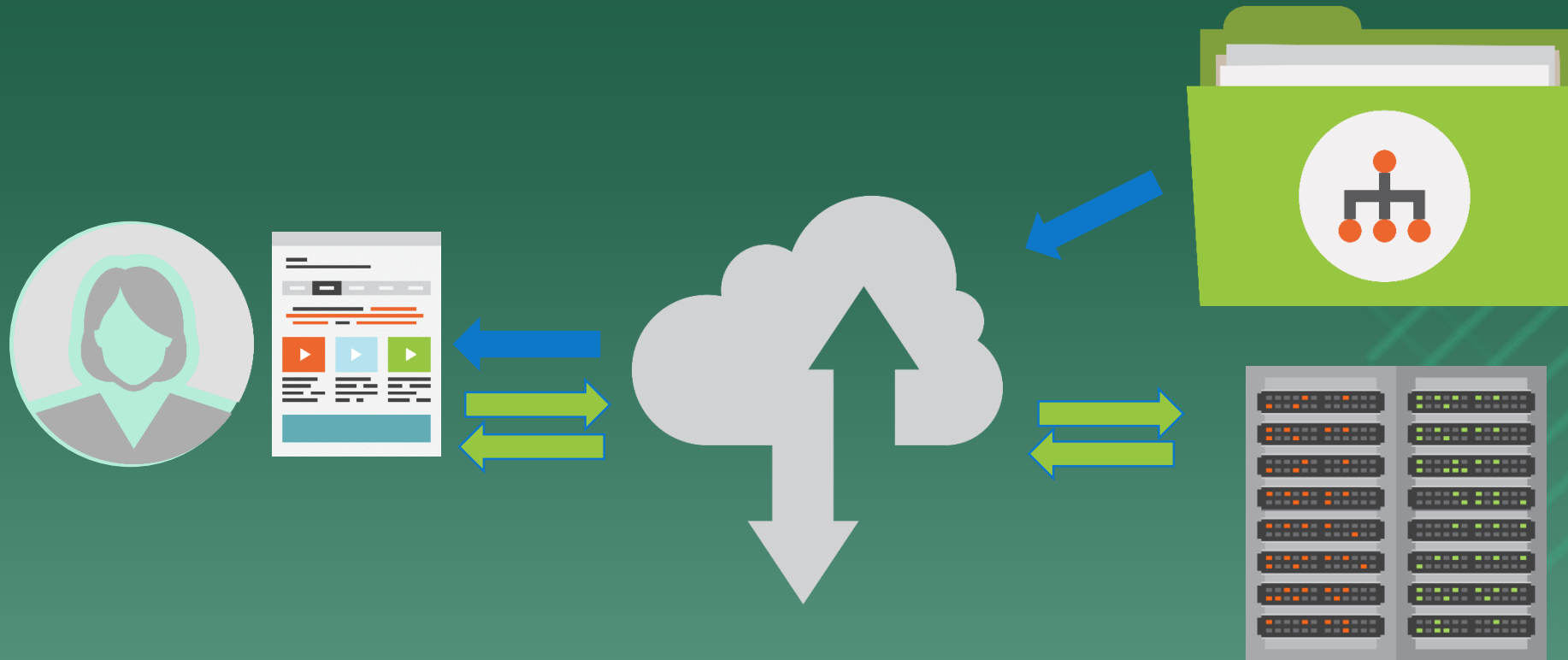
- REST APIs
 - Public APIs
 - Your own API sites
- Pre-gen JSON files
- Pre-gen HTML fragment



Example Widget/Component Sources



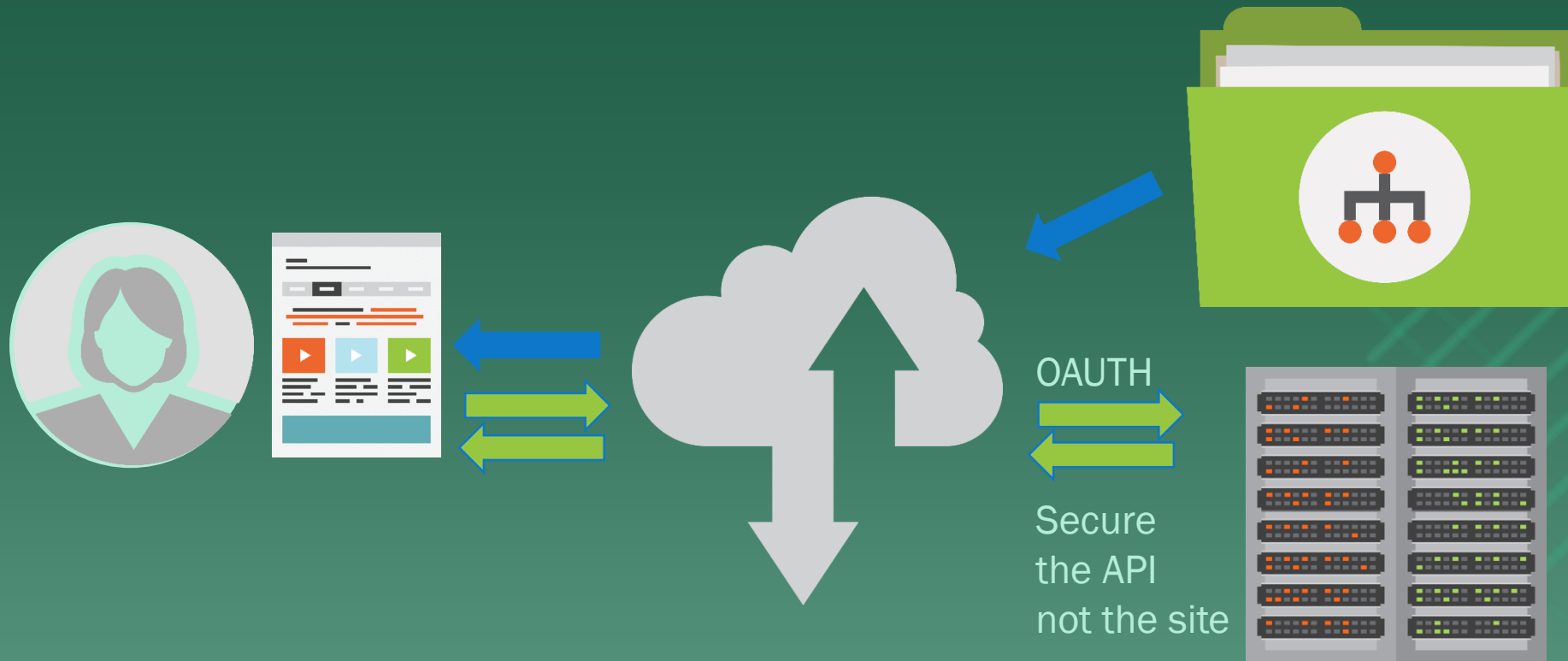
Example Widget/Component Sources



MySite.com
Node.js
Ruby on Rails
ASP.NET



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Resources

- <https://hexo.io/>
- <https://www.staticgen.com/>
- <https://www.pluralsight.com/courses/static-site-generator-build-better-blog>
- <http://ammonsonline.com/top-5-reasons-to-blog-with-a-static-file-generator/>



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- User Group: <http://ggmug.com>

