

Gatsby.js

A Paris.js talk by Alex / @bobyrito

Hi, I'm Alex

Software engineer

Independent contractor

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Loves JS



**I'm a static website
generator addict**

How is gatsby different from other generators?

Two questions

Is gatsby for you / your next project?

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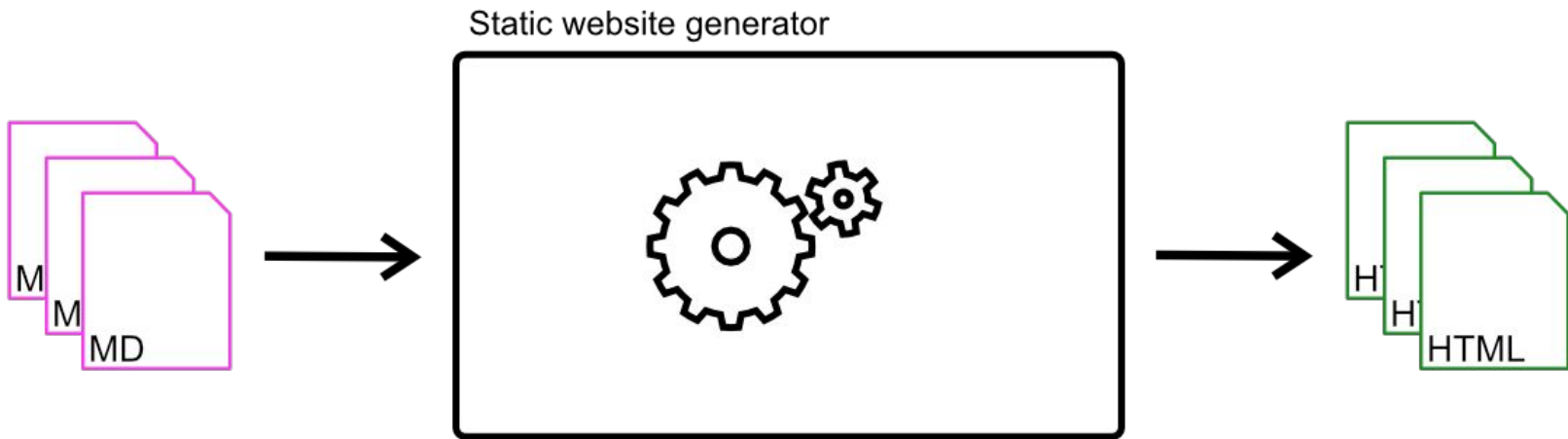
How is gatsby different from other generators?

Two questions

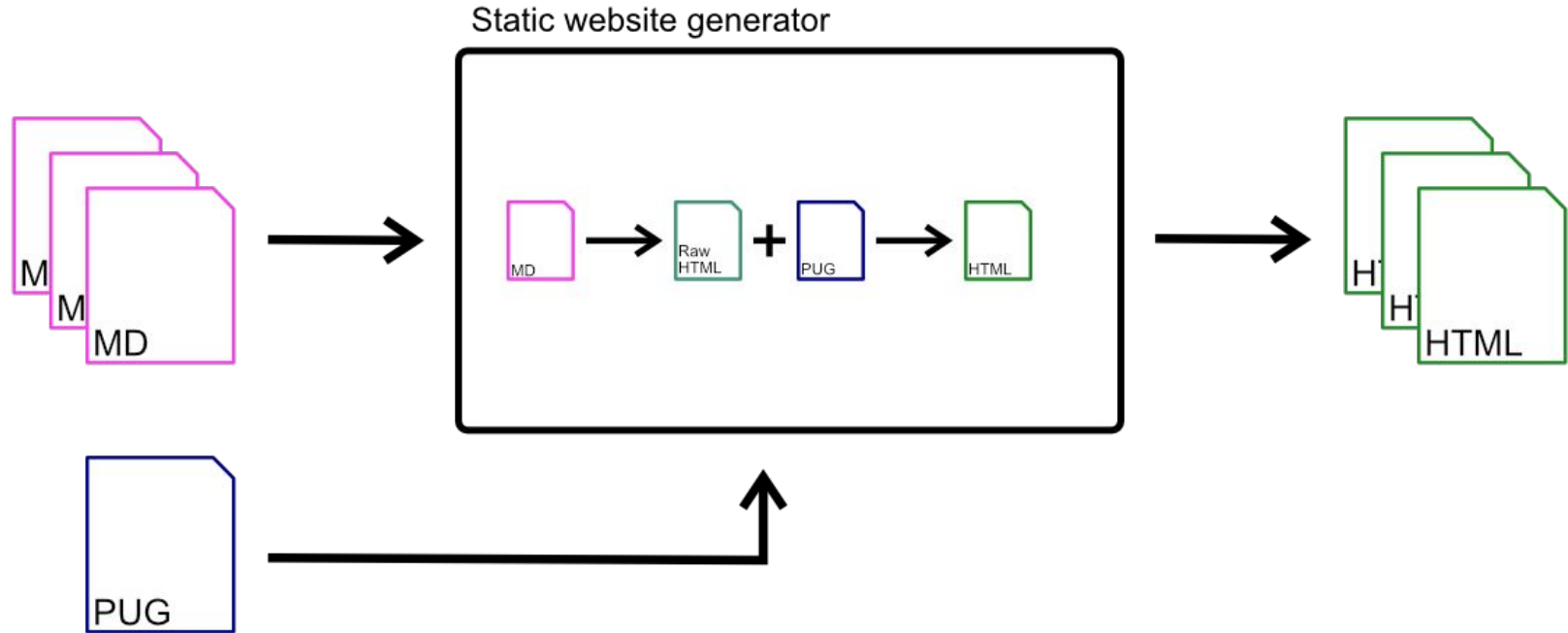
Is gatsby for you / your next project?

What is a static website generator?

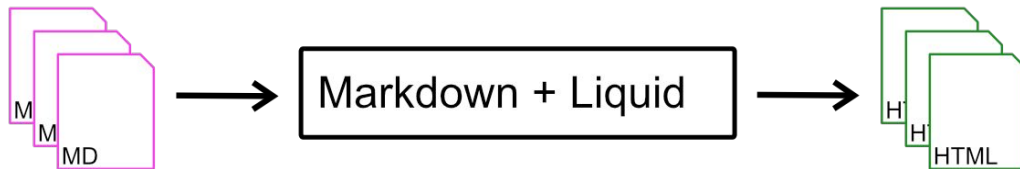
A tool that transforms markup in HTML



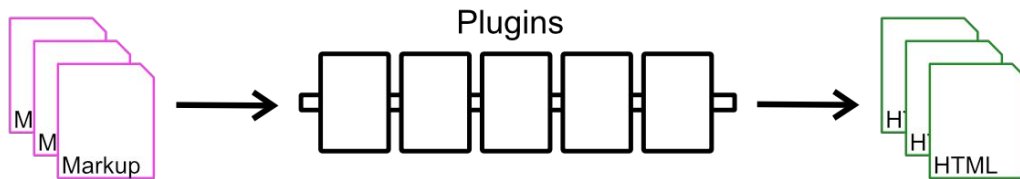
With the help of templates



They come in different size and shapes



METALSMITH



And they share common properties

- Pipelines
- Content is the main concern
- Templating come second
- Content comes from files

Gatsby.js

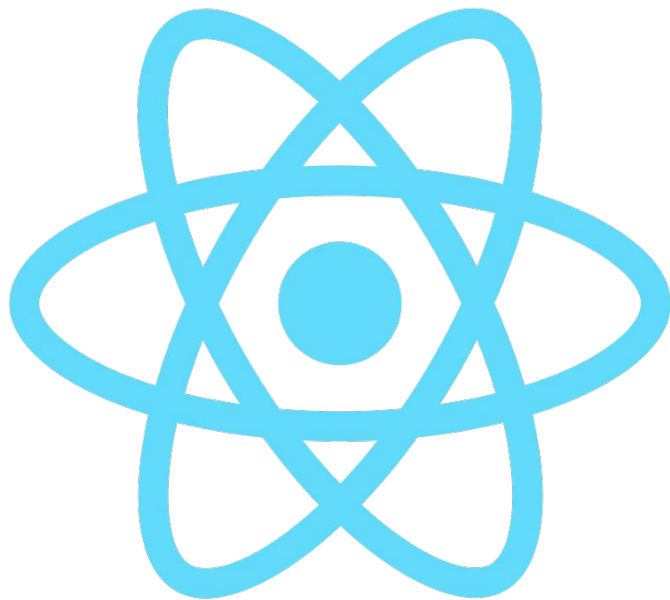
Templates

Template first!

```
▼ src/  
  ▶ components/  
  ▶ images/  
  ▼ pages/  
    404.js  
    index.js  
    page-2.js  
  gatsby-browser.js  
  gatsby-config.js  
  gatsby-node.js  
  gatsby-ssr.js  
  LICENSE  
  package-lock.json  
  package.json  
  README.md  
  yarn.lock
```

React
components

Templates are using React

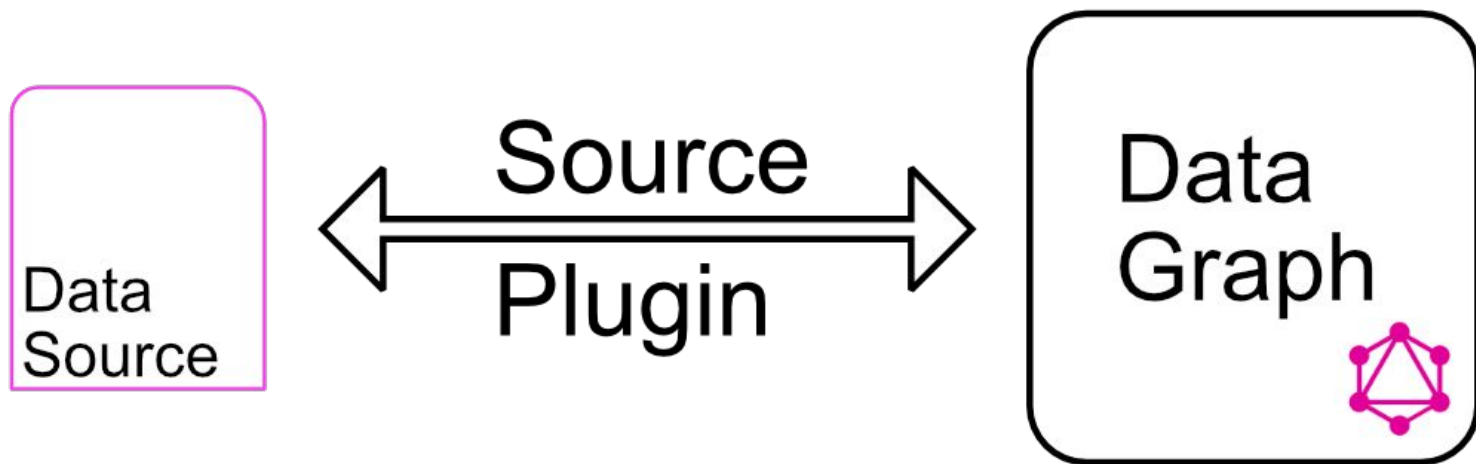


Templates are also usable in the front-end

- No more duplication of templates
- Same mindset at runtime and at build time

Content

Source plugins



```
export const query = graphql`  
  query MdxBlogPost {  
    mdx(title: { eq: "Using a Theme" }) {  
      id  
      title  
    }  
  }  
`;  
`;
```

Content plugins - GraphQL MDX example

Source agnostic

Files



Headless CMS



Databases

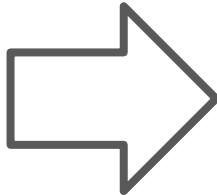


Assets are content



PNG full resolution

Megabytes



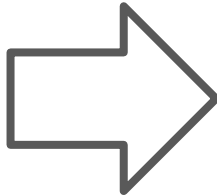
JPEG with just enough quality to look
great
Kilobytes

Plugins can optimize assets - image example



Full resolution

**Too much for mobile or
Too small for desktop**



Different sizes for each screen

Perfect everywhere

Plugins can optimize assets - image example

Generating pages

Create pages API - Two parts

- Extension point: `createPages`
- Function: `createPage`

```

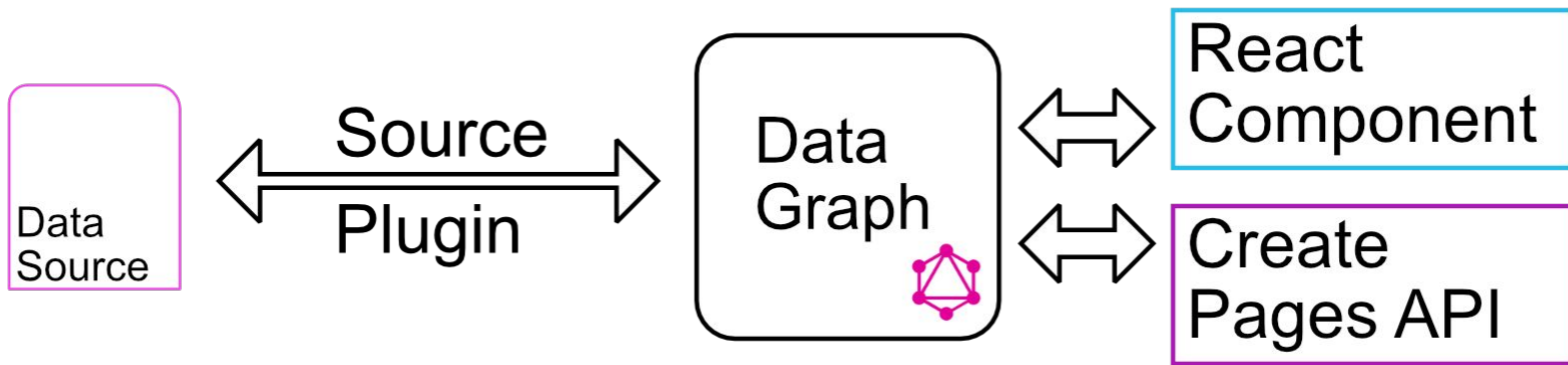
exports.createPages = async ({ actions, graphql, reporter }) => {
  const { createPage } = actions;
  const blogPostTemplate = path.resolve('src/templates/markdown-pages.js');
  const result = await graphql(`
    {
      allMarkdownRemark(limit: 1000) {
        edges {
          node {
            fileAbsolutePath
            id
          }
        }
      }
    }
  `);

  result.data.allMarkdownRemark.edges.forEach(({ node }) => {
    createPage({
      path: node.fileAbsolutePath,
      component: blogPostTemplate,
    });
  });
};

```

Create pages API - example

Bringing everything together



Flip the model - get new API powers

Is Gatsby right for your next project?

Why not choose Gatsby.js?

- Choices / ecosystem
- Magic
- You have mastered something else

Bad reasons to choose Gatsby.js or not?

- XYZ are using it
- Tech: React, GraphQL

Why choose Gatsby.js?

- Best practices built-in
- You're building a web app
- Well documented
- Community

Thanks!

Find me on twitter
@boblito

Looking for a JS
freelancer:
alex@noima.xyz



Links and resources

- [My talk about JSDoc in static website generators](#)
- [Playlist Detective](#), a project I built with Gatsby and Algolia
- [Create pages API](#)
- [Gatsby image plugin](#)
- [Gatsby plugin repository](#)