

GatsbyJS Two-Day Workshop

Day 1: Meeting Gatsby

Time	Topic
9:00-9:30 am	Breakfast
9:30-9:45 am	Attendee introductions
9:45-9:50 am	Go over Day 1 schedule
9:50-10:15 am	Introduction to Gatsby
10:15-11:00 am	Tutorial Part 1. Introduction to Gatsby basics
11:00-11:15 am	BREAK
11:15-11:30 am	Tutorial Part 2. Introduction to using CSS in Gatsby
11:30-11:45 am	Tutorial Part 3. Building nested layouts in Gatsby
12:30-1:00 pm	LUNCH
1:00-1:30 pm	Tutorial Part 4. Querying for data in a blog
1:30-2:15 pm	Tutorial Part 5. Source plugins and rendering queried data
2:15-2:45 pm	Tutorial Part 6. Transformer plugins
2:45-3:00 pm	BREAK
3:00-4:00 pm	Tutorial Part 7. Programmatically create pages from data
4:00-4:30 pm	Wrap-Up

Day 2: Extending Gatsby

Time	Topic
9:00-9:30 am	Breakfast
9:30-9:45 am	Check-in: Review feedback gathered during wrap up on Day 1
9:45-9:50 am	Go over Day 2 schedule
9:50-10:15 am	Introduction to Gatsby plugins
10:15-11:00 am	Using WordPress as a CMS
11:00-11:15 am	BREAK
11:15-12:30 pm	Adding images to your site
12:30-1:00 pm	LUNCH
1:00-2:00 pm	What if you can't find the plugin you need? Creating a source plugin (Pixabay)
2:00-2:15 pm	BREAK
2:15-3:30 pm	Free coding time (try building your own Google Analytics plugin, try new kinds of images, install new kinds of plugins and experiment with querying for data in GraphQL)
3:00-4:00 pm	Introduction to Gatsby site showcase (show a few favorites) and building dynamic apps with Gatsby
4:00-4:30 pm	Wrap-Up

Outline

Day 1

Breakfast

Ideally you will be happiest if you arrive 30 minutes *earlier* than breakfast to set up computer and slideshow and anything you're planning on sharing via computer and set out supplies like index cards, pens, and outlines. This frees you up to mingle, chat, and eat breakfast at your leisure while everyone is arriving, and will help you start on time.

Supplies to bring:

- index cards (2 per day per person. They will use one card per day to write down their feedback at the end of the day. They will use another to fold a card and write their name on it and put it in front of them on the table so you don't have to memorize everyone's names)
- Pens. Most people did not have pens.
- T-shirts or SWAG for attendees.

Tech preparation:

- Make sure to know how the room is set up (do you need to bring any specific cables, a long computer charger, do they have whiteboards/whiteboard markers and a projector)
- Someone suggested setting up a Slack channel for everyone to join and ask questions. This could be especially helpful if there are more than 5 attendees per workshop host.

Attendee Introductions

- **What:** Attendee introductions and ice-breaker activity.
- **Why:** To get everyone talking to each other and help the workshop attendees start conversations that lead to networking and making new friends.
- **How:** In < 90 seconds, tell us who you are, where you work, and what brings you to this workshop today (e.g. curiosity, upcoming project, professional assignment). If everyone already knows each other, feel free to skip this.

Go over Day 1 schedule

- **What:** Review schedule and provide channel for feedback and suggestions (Slack channel?)
- **Why:** To set expectations for attendees and give them an opportunity to share any specific outcomes they'd like to achieve so we can (hopefully) accommodate those.
- **How:**
 - Here's what we're going to be working on for the next two days. [Read through and explain each section with rough details.]
 - Here are the general results of the pre-workshop survey [only show anonymous survey results here or a summary of the results to preserve anonymity]

Introduction to Gatsby

What tends to be most valuable about Day 1 is for people to build and deploy their first Gatsby site, understanding what Gatsby is, and seeing that Gatsby's fast performance leads to great results for other people

Typical obstacles: React is actually a bigger obstacle than GraphQL if people are new to both.

- **What:** Give a short overview of what Gatsby is and why it's great to use.
- **Why:** To build excitement about Gatsby, and to confirm to attendees that they've made the right decision by showing up.
- **How:**
 - Go through Day 1 slide presentation explaining what Gatsby is and how it works (in broad strokes)
 - Quickly share a Gatsby site you've built or one you really like and show off its performance metrics and any explanation of why you like Gatsby

Tutorial Part 1. Introduction to Gatsby basics

- **What:** Have them go through Tutorial Part 1. (And Part 0, if necessary).
- **Why:** So they can experience hot reloading and deploying a Gatsby site.
- **How:**
 - Say: "How many of you have already installed Node, VS Code, and Prettier"? If everyone has already done these things, tell them to start Tutorial Part 1.
 - If there are some people who have *not* installed Node, VS Code, and Prettier, have them go through Tutorial Part 0, and say to those who don't

need Tutorial Part 0: “Anyone who has already installed Node, VS Code, and Prettier can go get some coffee or dive into Tutorial Part 1 while we help others get their environment set up.”

- Once everyone has Node, VS Code, and Prettier installed, have people go through Tutorial Part 1, and be available for questions.

Tutorial Part 2. Introduction to using CSS in Gatsby

- **What:** Add styles to the site.
- **Why:** To demonstrate several options for adding styles to Gatsby sites.
- **How:** Have people go through Tutorial Part 2 and be available for questions.

Break

Tutorial Part 3. Building nested layouts in Gatsby

- **What:** Add a shared layout.
- **Why:** To show how sites can share layout components.
- **How:** Have people go through Tutorial Part 3 and be available for questions.

Lunch

Tutorial Part 4. Querying for data in a blog

- **What:** Use the siteMetadata field to add shared site info.
- **Why:** Sometimes you want to use the same info across multiple places and pages. This is a way to do that efficiently.
- **How:** Have people go through Tutorial Part 4 and be available for questions.

Tutorial Part 5. Source plugins and rendering queried data

- **What:** Add a gatsby-source-filesystem
- **Why:** To demonstrate how to use plugins to extend Gatsby’s capabilities, and to demonstrate how to load static files in a way that’s accessible to Gatsby’s GraphQL API.
- **How:** Have people go through Tutorial Part 5 and be available for questions.

Tutorial Part 6. Transformer plugins

- **What:** Load content from a Markdown file into a page.
- **Why:** To demonstrate how transformers work in Gatsby.
- **How:** Have people go through Tutorial Part 6 and be available for questions.

Break

Tutorial Part 7. Programmatically create pages from data

- **What:** Create pages dynamically using `gatsby-node.js`.
- **Why:** This is much faster than creating pages, one at a time, by hand!
- **How:** Have people go through Tutorial Part 7 and be available for questions.

Wrap-Up

- **What:** Assessing where people are at now that they've been through Day 1 of the workshop and give them t-shirts!
- **Why:** To make sure we aren't losing anyone and that we're focusing on the most essential things tomorrow.
- **How:**
 - Ask everyone to take 2-3 minutes to write the answers to the following questions on a notecard: What was your biggest take-away from today? What was most/least valuable about today? What questions do you have about what we learned today?
 - Collect note-cards
 - Collect t-shirt sizes if you don't have them yet

Day 1 feedback (write a summary of feedback people write on their notecards here):

Most common take-aways today (or unique/surprising ones):

Most valuable parts of today:

Least valuable parts of today:

Most common questions people have and unique/surprising questions:

Day 2

Check-in

- **What:** Report on what they wrote on their notecards yesterday.
- **Why:** To make sure we aren't losing anyone and that we're focusing on the most essential things today.
- **How:** Share the summary of what you learned from their notecards [remember to use wise judgment in keeping things anonymous and just share general details without mentioning names] and how we adjusted the schedule to account for their feedback and questions.

Go over Day 2 schedule

What tends to be most popular this day: Images and using different names to reuse the same GraphQL query for cool outcomes, like resizing images

- **What:** Re-introduce today's schedule and get feedback and suggestions.
- **Why:** To fill in any gaps left after yesterday, and to set expectations for attendees and give them an opportunity to share any specific outcomes they'd like to achieve so we can (hopefully) accommodate those.
- **How:**
 - Show Day 2 slide deck. Possible thing to say: "Yesterday we learned how to build a basic Gatsby site with at least a couple pages, and one GraphQL query pulling in the site title data from Markdown, and at least one React component to style that title. Today we're going to talk about how Gatsby is extensible through plugins and if we have time, we'll address how it can be used to build dynamic apps like e-commerce sites and sites that include authentication.
 - [Read through agenda for today and explain each section with rough details.]

Introduction to Gatsby plugins

What: Give a short overview of how Gatsby is extensible and why that's important.

Why: To build excitement about Gatsby, and to confirm to attendees that they've made the right decision by showing up.

How:

- Show the plugin library and pull up some popular plugins.
- Show some example sites that use plugins.
- Show Plugin Authoring page and say we're teaching about these today:
 - ``gatsby-source-*``
 - ``gatsby-[plugin-name]-*``

Using WordPress as a CMS

- **What:** They install the WordPress plugin in order to pull data into their site.
- **Why:** They will almost definitely be using a source plugin in any Gatsby site they build.
- **How:** Have people go through the Using WordPress as a CMS tutorial and be available for questions.

BREAK

Image tutorial

- **What:** Load an image from the file system and display it with a super sweet lazy loading strategy.
- **Why:** To demonstrate the Gatsby Way™ of making images fast and handling loading in really cool ways.
- **How:** Have people go through the Adding Images to Your Site tutorial and be available for questions.

LUNCH

What if you can't find the plugin you need? Creating a source plugin (Pixabay)

- **What:** Create a source plugin
- **Why:** Many times, people cannot find the plugin they need and want to create their own. This one uses node APIs.
- **How:** Have people go through the Creating a Source Plugin tutorial and be available for questions.

BREAK

Free coding time

Ideas for them:

- try building your own Google Analytics plugin
- try new kinds of images
- install new kinds of plugins
- experiment with querying for data in GraphQL

Introduction to building dynamic apps with Gatsby (e-commerce and authentication)

- **What:** We will show that Gatsby can build sites that include dynamic aspects like e-commerce and authentication.
- **Why:** Many people don't know this is possible and it extends the reach of Gatsby to so many more use cases.
- **How:** Here are a list of demo sites and live sites that exemplify how people have used Gatsby to build extra functionality onto static sites, with similar performance metrics.
 - E-commerce: <https://cajunbowfishing.com/>
 - Authentication (Jason's simple auth implementation): <https://gatsby-demo-simple-auth.netlify.com/>
 - Any others you want to show off. Try to limit it to 3-5 sites.

Wrap-Up

- **What:** We'll encourage people to give us feedback, share Gatsby, and contribute to open source.
- **Why:** Give feedback, contribute to Gatsby
- **How:**
 - 2 options for feedback:
 - Ask everyone to take 2-3 minutes to write the answers to the following questions on a notecard: What was your biggest take-away from today? What was most/least valuable about today? What questions do you have about what we learned today?
 - OR let them know you'll send a follow-up survey in a week or two.
 - Show How to Contribute page at [Gatsbyjs.org](https://gatsbyjs.org) or How to Contribute slide on Day 2 Slide deck.