



See the results of the [2017 Ember Community Survey!](#)

v2.12.0 ▼

Getting Started

Tutorial

The Object Model

Routing

Templates

Components

Controllers

Models

Application Concerns

Testing

Ember Inspector

Addons and Dependencies

## Guides and Tutorials

Welcome to the Ember.js Guides! This documentation will take you from total beginner to Ember expert.

### What is Ember?

Ember is a JavaScript front-end framework designed to help you build websites with rich and complex user interactions. It does so by providing developers both with many features that are essential to manage complexity in modern web applications, as well as an integrated development toolkit that enables rapid iteration.

Some of these features that you'll learn about in the guides are:

- **Ember CLI** - A robust development toolkit to create, develop, and build Ember applications. When you see an `$ ember <command>` instruction throughout the guides, that's Ember CLI!
- **Routing** - The central part of an Ember application. Enables developers to drive the application state from the URL.



See the results of the [2017 Ember Community Survey!](#)

v2.12.0

Getting Started

Tutorial

The Object Model

Routing

Templates

Components

Controllers

Models

Application Concerns

Testing

Ember Inspector

Addons and Dependencies

## Guides and Tutorials



Welcome to the Ember.js Guides! This documentation will take you from total beginner to Ember expert.

### What is Ember?

Ember is a JavaScript front-end framework designed to help you build websites with rich and complex user interactions. It does so by providing developers both with many features that are essential to manage complexity in modern web applications, as well as an integrated development toolkit that enables rapid iteration.

Some of these features that you'll learn about in the guides are:

- **Ember CLI** - A robust development toolkit to create, develop, and build Ember applications. When you see an `$ ember <command>` instruction throughout the guides, that's Ember CLI!
- **Routing** - The central part of an Ember application. Enables developers to drive the application state from the URL.



v2.0.0

GETTING STARTED

THE OBJECT MODEL

ROUTING

Introduction

Defining Your Routes

Specifying a Route's Model

Rendering a Template

Redirecting

Preventing and Retrying  
Transitions

Loading / Error Substates

Query Parameters

Asynchronous Routing

TEMPLATES

COMPONENTS

CONTROLLERS

MODELS

APPLICATION CONCERNS

 Old Guides - You are viewing the guides for Ember v2.0.0.

VIEW v2.12.0



## INTRODUCTION



Imagine we are writing a web app for managing a blog. At any given time, we should be able to answer questions like *What post are they looking at?* and *Are they editing it?* In Ember.js, the answer to these questions is determined by the URL.

The URL can be set in a few ways:

- The user loads the app for the first time.
- The user changes the URL manually, such as by clicking the back button or by editing the address bar.
- The user clicks a link within the app.
- Some other event in the app causes the URL to change.

Regardless of how the URL becomes set, the Ember router then maps the current URL to one or more route handlers. A route handler can do several things:

- It can render a template.
- It can load a model that is then available to the template.
- It can redirect to a new route, such as if the user isn't allowed to visit that part of the app.
- It can handle actions that involve changing a model or transitioning to a new route.