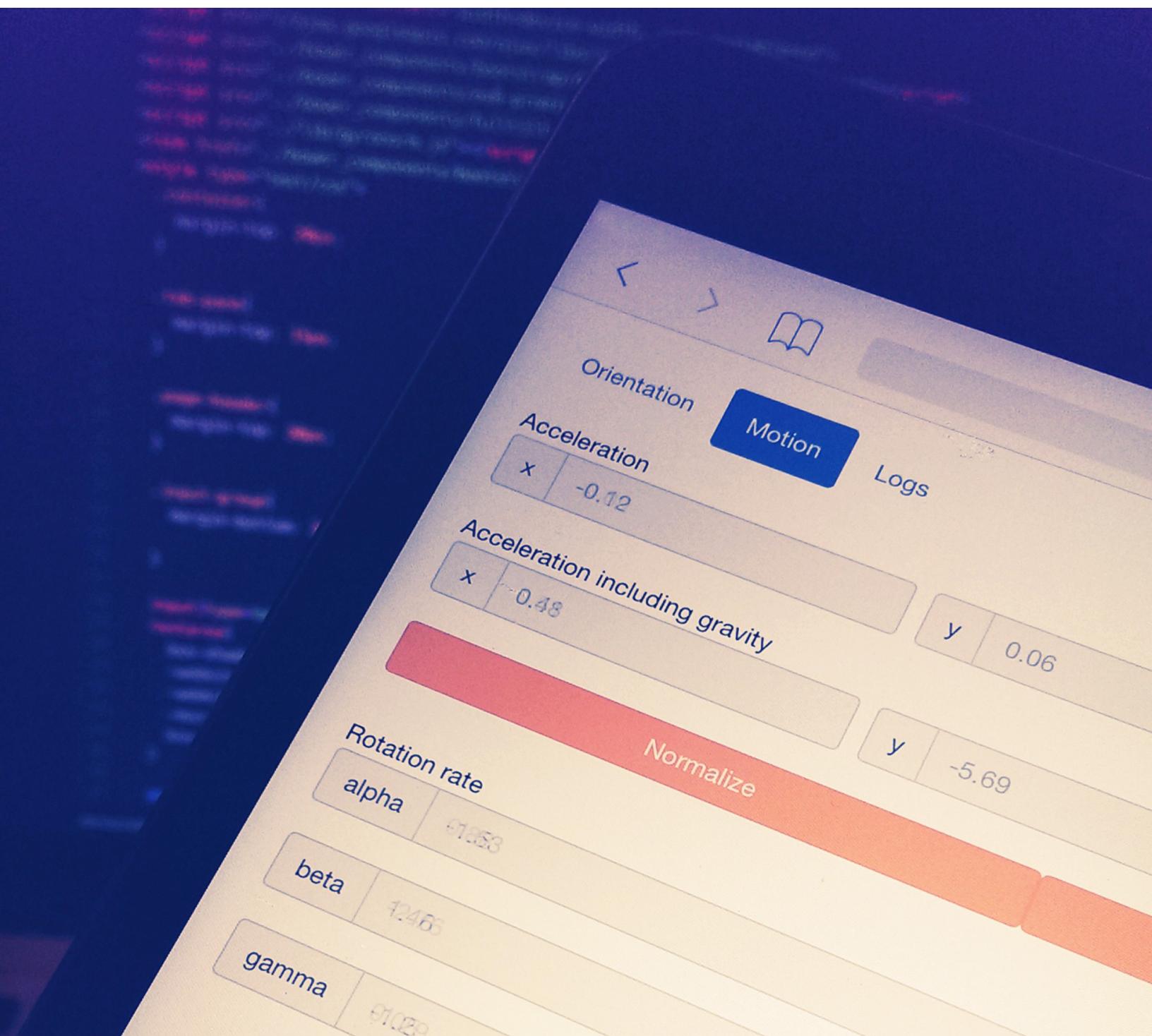


Gyronorm.js

Using accelerometer and gyroscope
on mobile web applications



by Doruk Eker

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This is the sample of the e-book. It contains only the introduction chapter. To download the entire book, click on the 'Add Ebook to Cart' button on the following page [Gyronorm.js Ebook](#).

Introduction

Almost all modern mobile devices contain sensors. Some of these sensors are used to detect the orientation (rotation) and motion of the device. There is *gyroscope* for device orientation and *accelerometer* for device motion. You can access values from these sensors on a mobile browser using JavaScript.

This allows you to use the orientation and motion data of the device in your web applications. However the values can be inconsistent across different devices and browsers. Resulting your web application to behave differently across device/browser combinations.

Gyronorm.js is a light-weight, open-source JavaScript library. It makes it easier to access this data. It also uses assumptions to provide consistent values across most devices.

This book covers the details of how you can use Gyronorm.js to access and normalize this data for mobile web applications.

Audience

This book is aimed for anyone who wants to use device motion sensors in their web applications.

It is assumed that the reader already has knowledge on

- JavaScript programming language
- Basics of mobile web applications
- Promises in JavaScript

Overview of Chapters

Chapter 1: Basics

This chapter covers the basics of device orientation and device motion in JavaScript. It mentions the essentials of the W3C standards, as well as the differences of implementation across device/browser combinations.

Chapter 2: Gyronorm.js

This chapter covers the basics of Gyronorm.js library, it's basic usage and how it addresses the implementation differences across device/browser combinations. It also shares tips and tricks on how you can debug your web application and how you can contribute to the library.

Chapter 3: Sample Code Walkthrough

Work in progress

Chapter 4: Use Cases

Work in progress

Appendix: Gyronorm.js API Documentation

The appendix contains the API documentation for Gyronorm.js.