



Community Experience Distilled

Three.js Essentials

Create and animate beautiful 3D graphics with this fast-paced tutorial

Jos Dirksen

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Three Js Essentials

Andrei Tazetdinov



Three Js Essentials:

Three. Js Essentials Jos Dirksen, 2014-11-12 Create and animate beautiful 3D graphics with this fast paced tutorial Overview Acquire thorough knowledge of the essential features of Three js explained using comprehensive examples Animate HTML5 elements directly from Three js using the CSS3 3D renderer Visualize information such as sound and open data in beautiful 3D In Detail Create beautiful visualizations and 3D scenes using Three js with this practical example rich book Learn all the core concepts of Three js and whether you are targeting mobile devices or desktop browsers you will gain the necessary skills to build a 3D application and improve web performance From setting up a development environment and creating your first Three js scene you will quickly dive into more complex scene making Discover a variety of possible scenes from how to make a rotating planet with data overlay to mini games Through these examples you will be shown an array of skills from using materials controls and lighting to creating particle systems and geometries from scratch By the end of this book you ll be able to effectively and confidently create 3D scenes using different lights and materials create visualizations using particle systems animate web pages and incorporate Blender in your 3D workflow What you will learn from this book Create standard skeletons and animation loops for Three js projects that support WebGL and CSS3 3D Use textures and materials to their fullest to enhance rendering of an object Apply different types of lighting using the different light sources available Animate geometries particle systems and HTML5 elements with Three js and Tween js Create procedural and random geometries from scratch Load geometries from external sources and work with Blender as a 3D modeling tool Work with particle systems for advanced visualizations Approach This book is an easy to follow guide that shows the essential parts of Three js through a set of extensive examples Through the explanation of these examples you ll learn everything you need to know about Three js Who this book is written for If you already know JavaScript and want to quickly learn the essentials of Three js this book is for you No prior knowledge of Three js WebGL 3D modeling or Math is required **Three.js Cookbook** Jos Dirksen, 2015-01-30 This book is ideal for anyone who already knows JavaScript and would like to get a broad understanding of Three js quickly or for those of you who have a basic grasp of using Three js but want to really make an impact with your 3D visualizations by learning its advanced features To apply the recipes in this book you don t need to know anything about WebGL all you need is some general knowledge about JavaScript and HTML **NW.js Essentials** Alessandro Benoit, 2015-05-25 If you are an experienced Node js developer who wants to create amazing desktop applications using NW js this is the book for you Prior knowledge of HTML5 jQuery and CSS is assumed **Learning Three.js - the JavaScript 3D Library for WebGL - Second Edition** Jos Dirksen, 2015-03-31 If you know JavaScript and want to start creating 3D graphics that run in any browser this book is a great choice for you You don t need to know anything about math or WebGL all that you need is general knowledge of JavaScript and HTML **Three.Js Essentials** Jos Dirksen, 2014-07-10 This book is an easy to follow guide that shows the essential parts of Three js through a set of extensive examples Through

the explanation of these examples you ll learn everything you need to know about Three js If you already know JavaScript and want to quickly learn the essentials of Three js this book is for you No prior knowledge of Three js WebGL 3D modelling or Maths is required *Leaflet.js Essentials* Paul Crickard III,2014-08-18 If you are a web developer working with geospatial concepts and mapping APIs and you want to learn Leaflet to create mapping solutions this book is for you You need to have a basic knowledge of working with JavaScript and performing web application development **React.js Essentials** Artemij Fedosejev,2015-08-27 A fast paced guide to designing and building scalable and maintainable web apps with React js About This Book Build maintainable and performant user interfaces for your web applications using React js Create reusable React js components to save time and effort in maintaining your user interfaces Learn how to build a ready to deploy React js web application following our step by step tutorial Who This Book Is For If you re a front end developer with knowledge of jQuery and its libraries along with frameworks such as Angular JS and Backbone JS or native JavaScript development and you wish to use the fastest web user interface library there is then this book is ideal for you What You Will Learn Install powerful React js tools to make development much more efficient Create React elements with properties and children Get started with stateless and stateful React components Use JSX to speed up your React js development process Add reactivity to your React components with lifecycle methods Integrate your React components with other JavaScript libraries Utilize the Flux application architecture with your React components Test your React components with Jest test framework In Detail Building web applications with maintainable and performant user interfaces is a challenge that many have faced for more than a decade but no one has risen to this challenge quite like React js Today React js is used by Facebook Instagram Khan Academy and Imperial College London to name a few Many new users recognize the benefits of React js and adopt it in their own projects forming a fast growing community The speed at which React js has evolved promises a bright future for those who invest in learning it today React js Essentials will take you on a fast paced journey through building your own maintainable React js application Begin by exploring how you can create single and multiple user interface elements Create stateless and stateful components and make them reactive learn to interact between your components and lifecycle methods and gauge how to effectively integrate your user interface components with other JavaScript libraries Delve deep into the core elements of the Flux architecture and learn how to manage your application using stores Finish by going that extra mile with the Jest test framework running multiple tests on your application and find solutions to scale it further without complexity Style and approach The book adopts a step by step hands on approach with ample codes to ensure you learn React js at a fast pace *JavaScript Essentials For Dummies* Paul McFedries,2024-04-30 The concise and digestible get started guide to JavaScript programming JavaScript Essentials For Dummies is your quick reference to all the core concepts about JavaScript the dynamic scripting language that is often the final step in creating powerful websites This no nonsense book gets right to the point eliminating review material wordy explanations and fluff Find out all you need to know about the

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Babylon.js Essentials Julien Moreau-Mathis,2016-03-04 Understand train and be ready to develop 3D Web applications video games using the Babylon js framework even for beginners About This Book Understand the basics of 3D along with the theory before practicing Each mini project provides previous features alongside the new feature you are learning to supply the examples Learn from the best of the best a developer at Microsoft France Who This Book Is For Babylon JS Essentials is intended for developers who want to enter the world of 3D development for the Web or developers who want to add the Babylon js framework to their skill set The notion of Oriented Object Programming would be helpful to understand the architecture of the Babylon js framework Also a familiarity with Web development would be useful to understand the principles used What You Will Learn Understand what the TypeScript language is and its benefits compared to JavaScript in large projects such as 3D engines Learn the basics of 3D using Babylon js without too much theory but with an emphasis on practice for a better understanding of the architecture Know the usage of Material a fundamental principle of 3D engines in Babylon js and then customize the appearance of 3D objects Integrate collisions and physics in

gameplay Understand the notion of impostor for physics simulation Manage create and spatialize audio tracks in 3D scenes Go further with the Babylon.js framework to create actions on events Create rendering effects provided by the Babylon.js framework such as post processes In Detail Are you familiar with HTML5 Do you want to build exciting games and Web applications Then explore the exciting world of game and Web development with one of the best frameworks out there Babylon JS Starting from the beginning the book introduces the required basics for 3D development and the knowledge you need to use the Babylon.js framework It focuses on the simplicity provided by Babylon.js and uses a combination of theory and practice All the chapters are provided with example files ready to run each example file provides the previously learned features of the framework Finally developers will be ready to easily understand new features added to the framework in the future Style and approach The book is a comprehensive guide packed with ready to run examples with a mix of theory and practice

3D Web Development with Three.js and Next.js Andrei Tazetdinov, 2025-07-22 DESCRIPTION Three.js and Next.js are revolutionizing how we build interactive web experiences especially for industrial and multipurpose applications This book unlocks their combined power showing you how to create immersive 3D visualizations and dynamic web solutions that drive efficiency and innovation in various sectors Beginning with the evolution and capabilities of 3D web development this book covers the foundational tools setting up your environment for Three.js Next.js AWS Amplify Storybook and Tailwind CSS It then explores Three.js fundamentals covering geometries materials lighting cameras textures user interactions and animations to create dynamic 3D scenes The book then seamlessly integrates Three.js with Next.js teaching data management state handling and advanced interaction patterns Crucially you will learn vital optimization techniques and leverage AWS Amplify for secure hosting user authentication data storage and real time functionalities The final sections guide you in establishing a consistent UI design system with Storybook culminating in a complete practical application Upon completing this book you will possess a strong command of cutting edge web and 3D technologies enabling you to confidently design build and deploy sophisticated industrial and multipurpose web applications with immersive 3D experiences WHAT YOU WILL LEARN Build 3D apps with Three.js and Next.js and deploy scalable apps using AWS Amplify services Secure 3D apps with Amplify Auth and real time data Optimize 3D web application performance for diverse devices and browsers Integrate Three.js seamlessly into Next.js for structured high performance web apps Design and build consistent UI systems using Storybook and Tailwind CSS Develop interactive industrial visualizations with real time data and 3D models WHO THIS BOOK IS FOR This book is for aspiring front end developers full stack developers and 3D web developers with foundational knowledge in JavaScript and React While we will cover 3D essentials a basic understanding will certainly aid your journey into building sophisticated industrial and multipurpose applications TABLE OF CONTENTS 1 Industrial Application Evolution 2 Capabilities of Web Development for Industrial and Multi purpose 3 Introduction to Tools 4 Setting up All Tools for Quickstart of Development 5 Introduction to 3D Development 6 Getting Started with Three.js 7 Geometries and Materials 8

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Learn Three.js Jos Dirksen, 2018-08-31 Create and animate stunning 3D browser based graphics with Three js JavaScript library Key Features Enhance your 3D graphics with light sources shadows advanced materials and textures Load models from external sources and visualize and animate them directly from JavaScript Create your own custom WebGL shader and explore the postprocessing feature of Three js Book Description WebGL makes it possible to create 3D graphics in the browser without having to use plugins such as Flash and Java Programming WebGL however is difficult and complex With Three js it is possible to create stunning 3D graphics in an intuitive manner using JavaScript without having to learn WebGL With this book you ll learn how to create and animate beautiful looking 3D scenes directly in your browser utilizing the full potential of WebGL and modern browsers It starts with the basic concepts and building blocks used in Three js From there on it will expand on these subjects using extensive examples and code samples You will learn to create or load from externally created models realistic looking 3D objects using materials and textures You ll find out how to easily control the camera using the Three js built in camera controls which will enable you to fly or walk around the 3D scene you created You will then use the HTML5 video and canvas elements as a material for your 3D objects and to animate your models Finally you will learn to use morph and skeleton based animation and even how to add physics such as gravity and collision detection to your scene After reading this book you ll know everything that is required to create 3D animated graphics using Three js What you will learn Work with the different types of materials in Three js and see how they interact with your 3D objects and the rest of the environment Implement the different camera controls provided by Three js to effortlessly navigate around your 3D scene Work with vertices directly to create snow rain and galaxy like effects Import and animate models from external formats such as OBJ STL and COLLADA Create and run animations using morph targets and bones animations Explore advanced textures on materials to create realistic looking 3D objects by using bump maps normal maps specular maps and light maps Interact directly with WebGL by creating custom vertex and fragment shaders Who this book is for The ideal target audience for this book would be JavaScript developers who who want to learn how to use the Three js library

Expert Data Visualization Jos Dirksen, 2017-04-24 Breathe life into your data by learning how to use D3 js V4 to visualize information About This Book Create complex visualizations powered by D3 js and open data Provides an extensive set of visualizations that explore all the functionality provided by D3 js V4 Shows how to set up an easy to use environment to create stunning visualizations Who This Book Is For The typical target audience of this book

is JavaScript developers designers and visual artists who have some basic JavaScript programming knowledge and who now want to master pro level techniques to create interactive data visualizations using web standards which work on desktop as well as mobile devices

What You Will Learn

- Learn how D3 js works to declaratively define visualizations
- Create charts from scratch by using SVG and the D3 js APIs
- See how to prepare data for easy visualization using D3 js
- Visualize hierarchical data using chart types provided by D3 js
- Explore the different options provided by D3 js to visualize linked data such as graphs
- Spice up your visualizations by adding interactivity and animations
- Learn how to use D3 js to visualize and interact with Geo and Gis related information sources
- Create visualization by streaming data over WebSockets

In Detail

Do you want to make sense of your data Do you want to create interactive charts data trees info graphics geospatial charts and maps efficiently This book is your ideal choice to master interactive data visualization with D3 js V4 The book includes a number of extensive examples that to help you hone your skills with data visualization Throughout nine chapters these examples will help you acquire a clear practical understanding of the various techniques tools and functionality provided by D3 js You will first setup your D3 JS development environment and learn the basic patterns needed to visualize your data After that you will learn techniques to optimize different processes such as working with selections animating data transitions creating graphs and charts integrating external resources static as well as streaming visualizing information on maps working with colors and scales utilizing the different D3 js APIs and much more The book will also guide you through creating custom graphs and visualizations and show you how to go from the raw data to beautiful visualizations The extensive examples will include working with complex and realtime data streams such as seismic data geospatial data scientific data and more Towards the end of the book you will learn to add more functionality on top of D3 js by using it with other external libraries and integrating it with EcmaScript 6 and Typescript

Style and approach This book will have a real world case study approach where you will be given data sets from different domains These data sets will have different visualization goals some might need 2D or 3D charts some might need automated workflows others might require interactive maps While you fulfill these goals you will learn different techniques and best practices which will enable you to perform data visualization tasks on your own

Mapbox Development Essentials Richard Johnson, 2025-06-19

Mapbox Development Essentials Mapbox

Development Essentials is the definitive guide for developers architects and geospatial professionals seeking a comprehensive hands on understanding of the Mapbox ecosystem The book begins with a detailed exploration of digital mapping s evolution and Mapbox s pivotal role delving into platform architecture core APIs and SDKs advanced rendering pipelines and vital topics such as security privacy and licensing Readers will gain an expert s perspective on integrating Mapbox into modern geospatial stacks ensuring robust scalable and secure deployment for enterprise and commercial use Moving beyond fundamentals the book offers an in depth treatment of advanced map styling data driven cartography and the creation of sophisticated user experiences using Mapbox Studio and the Style Specification It covers the end to end pipeline

of geospatial data management including tile generation real time ingestion and complex spatial analytics while emphasizing ethical data governance Step by step chapters address seamless web and mobile application development from high performance visualizations and application driven UI to efficient offline mapping and secure mobile deployments Rounding out its coverage Mapbox Development Essentials addresses cloud integration custom plugin architectures and rigorous testing and performance practices equipping readers to deliver and maintain production grade geospatial solutions The book closes with a forward looking examination of emerging trends such as AI powered spatial intelligence indoor mapping IoT ethics and climate focused use cases making it an indispensable resource for anyone building the next generation of mapping applications

Blender Cycles: Materials and Textures Cookbook - Third Edition Enrico Valenza,2015-02-26 This book is aimed at those familiar with the basics of Blender looking to delve into the depths of the Cycles rendering engine to create an array of breath taking materials and textures

JavaScript Essentials Neil Smyth,2010-09-09 The purpose of this ebook is to teach the essentials of the JavaScript scripting language so that anyone with a web site can learn to use this powerful language quickly and effectively It builds detailed and in depth knowledge of all aspects of JavaScript from language basics through to advanced topics in 23 detailed chapters This book is designed to provide a detailed and comprehensive yet easy to follow guide to developing powerful dynamic web pages using JavaScript Each subject area is accompanied by clear and concise examples putting theory into practice It could be said that the object of JavaScript Essentials is to provide you with everything you need to use JavaScript and nothing that you don't

Proceedings of the International Conference on Data Engineering and Communication Technology Suresh Chandra Satapathy,Vikrant Bhateja,Amit Joshi,2016-08-23 This two volume book contains research work presented at the First International Conference on Data Engineering and Communication Technology ICDECT held during March 10 11 2016 at Lavasa Pune Maharashtra India The book discusses recent research technologies and applications in the field of Computer Science Electrical and Electronics Engineering The aim of the Proceedings is to provide cutting edge developments taking place in the field data engineering and communication technologies which will assist the researchers and practitioners from both academia as well as industry to advance their field of study

Unity 3.x Game Development Essentials Will Goldstone,2011-12-20 This book follows an informal demystifying approach to the world of game development with the Unity game engine With no prior knowledge of game development or 3D required you will learn from scratch taking each concept at a time working up to a full 3D mini game You'll learn scripting with C or JavaScript and master the Unity development environment with easy to follow stepwise tasks If you're a designer or animator who wishes to take their first steps into game development or prototyping or if you've simply spent many hours sitting in front of video games with ideas bubbling away in the back of your mind Unity and this book should be your starting point No prior knowledge of game production is required inviting you to simply bring with you a passion for making great games

Leaflet.js Development Essentials Richard

Johnson,2025-06-11 Leaflet js Development Essentials Leaflet js has become a cornerstone for modern web mapping prized for its lightweight architecture extensibility and vast ecosystem Leaflet js Development Essentials is a comprehensive guide that delves deep into the core principles and advanced techniques required to build robust interactive and high performance map applications Starting from the foundational architecture and event systems of Leaflet this book illuminates its modular design and rich plugin ecosystem empowering developers to harness and extend the platform with confidence Moving beyond the basics the book covers critical workflows such as managing diverse base maps optimizing raster and vector tile performance and handling large geospatial datasets with advanced layer techniques It explores strategies for interactivity accessibility and responsive design ensuring that your applications deliver seamless experiences across both desktop and mobile environments Readers will master integration with external data services real time data streams backend databases and dynamic interactions all while maintaining security privacy and regulatory compliance The guide also addresses the operational side of modern mapping performance optimization secure deployment and DevOps best practices including build automation cloud native and serverless deployment strategies and sophisticated scaling techniques for high traffic scenarios Rounding out with forward looking topics like 3D visualization AI in GIS and big data processing Leaflet js Development Essentials is an authoritative resource for developers seeking to push the boundaries of web mapping and craft the next generation of geospatial applications

[JavaScript and JSON Essentials](#) Sai Srinivas Sriparasa,2013-10-24 The book follows a tutorial based approach and will teach you how to work with JSON tools design JSON objects and how to use different techniques to handle JSON data This book is a great resource for developers who would like to learn more about JSON and who wish to apply it in their own projects It will be useful to have some prior knowledge of HTML and JavaScript to help you understand the concepts covered in this book Some familiarity with a server side language such as PHP C or Python would also be beneficial but this is not compulsory

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Three Js Essentials Introduction

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