
Web Audio API

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Web Audio Api Boris Smus

Arnau Julià Collados



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Web Audio API Boris Smus,2013-03-11 Go beyond HTML5 s Audio tag and boost the audio capabilities of your web application with the Web Audio API Packed with lots of code examples crisp descriptions and useful illustrations this concise guide shows you how to use this JavaScript API to make the sounds and music of your games and interactive applications come alive You need little or no digital audio expertise to get started Author Boris Smus introduces you to digital audio concepts then shows you how the Web Audio API solves specific application audio problems If you re an experienced JavaScript programmer you ll not only learn how to synthesize and process digital audio you ll also explore audio analysis and visualization with this API Learn Web Audio API including audio graphs and the audio nodes Provide quick feedback to user actions by scheduling sounds with the API s precise timing model Control gain volume and loudness and dive into clipping and crossfading Understand pitch and frequency use tools to manipulate soundforms directly with JavaScript Generate synthetic sound effects and learn how to spatialize sound in 3D space Use Web Audio API with the Audio tag getUserMedia and the Page Visibility API

[Web Audio API](#) Boris Smus,2013 Go beyond HTML5 s Audio tag and boost the audio capabilities of your web application with the Web Audio API Packed with lots of code examples crisp descriptions and useful illustrations this concise guide shows you how to use this JavaScript API to make the sounds and music of your games and interactive applications come alive You need little or no digital audio expertise to get started Author Boris Smus introduces you to digital audio concepts then shows you how the Web Audio API solves specific application audio problems If you re an experienced JavaScript programmer you ll not only learn how to synthesize and process digital audio you ll also explore audio analysis and visualization with this API Learn Web Audio API including audio graphs and the audio nodes Provide quick feedback to user actions by scheduling sounds with the API s precise timing model Control gain volume and loudness and dive into clipping and crossfading Understand pitch and frequency use tools to manipulate soundforms directly with JavaScript Generate synthetic sound effects and learn how to spatialize sound in 3D space Use Web Audio API with the Audio tag getUserMedia and the Page Visibility API

[JavaScript for Sound Artists](#) William Turner,Steve Leonard,2017-01-20 Learn how to program JavaScript while creating interactive audio applications with JavaScript for Sound Artists Learn to Code With the Web Audio API William Turner and Steve Leonard showcase the basics of JavaScript language programing so that readers can learn how to build browser based audio applications such as music synthesizers and drum machines The companion website offers further opportunity for growth Web Audio API instruction includes oscillators audio file loading and playback basic audio manipulation panning and time This book encompasses all of the basic features of JavaScript with aspects of the Web Audio API to heighten the capability of any browser Key Features Uses the readers existing knowledge of audio technology to facilitate learning how to program using JavaScript The teaching will be done through a series of annotated examples and explanations Downloadable code examples and links to additional reference material included on the

books companion website This book makes learning programming more approachable to nonprofessional programmers The context of teaching JavaScript for the creative audio community in this manner does not exist anywhere else in the market and uses example based teaching

PHP Beyond the Web Rob Aley,2016-12-15 Use your existing web based PHP skills to write all types of software CLI scripts desktop software network servers and more This book gives you the tools techniques and background necessary to write just about any type of software you can think of using the PHP you know PHP Beyond the Web shows you how to take your knowledge of PHP development for the web and utilise it with a much wider range of software systems Enjoy the benefits of PHP after reading this book save money by redeploying existing skills not learning new ones save time and increase productivity by using a high level language and make money by providing your clients a full stack service not just websites PHP is no longer just a great scripting language for websites it s now a powerful general purpose programming language Expand your use of PHP into your back end systems server software data processing services desktop interfaces and more What You ll Learn Write interactive shell scripts Work with system daemons Write desktop software Build network servers Interface with electronics using PHP and the Raspberry Pi Manage performance deployment licensing and system interaction Discover the software tools for development and get other great sources of technical information and help Who This Book Is For Experienced PHP programmers or experienced programmers interested in leveraging PHP outside the web development context div

Working with the Web Audio API Joshua Reiss,2022-04-26 Working with the Web Audio API is the definitive and instructive guide to understanding and using the Web Audio API The Web Audio API provides a powerful and versatile system for controlling audio on the Web It allows developers to generate sounds select sources add effects create visualizations and render audio scenes in an immersive environment This book covers all essential features with easy to implement code examples for every aspect All the theory behind it is explained so that one can understand the design choices as well as the core audio processing concepts Advanced concepts are also covered so that the reader will gain the skills to build complex audio applications running in the browser Aimed at a wide audience of potential students researchers and coders this is a comprehensive guide to the functionality of this industry standard tool for creating audio applications for the web

Web Audio API JD Gauchat,2018-01-02 Learn how to create an audio system for a web site or a web application After reading this guide you will know how to create audio nodes to play audio how to connect them to filter the source and add effects how to mix multiple sources how to create 3D sounds for 3D video games or applications and how to analyze the audio signal Table of Contents WEB AUDIO API Audio Structure Audio Context Audio Sources Connecting Nodes Audio Applications Loops and Times Audio Nodes AudioParam GainNode DelayNode BiquadFilterNode DynamicsCompressorNode ConvolverNode PannerNode and 3D Sound AnalyserNode QUICK REFERENCE AudioContext Methods AudioBufferSourceNode Buffer AudioParam PannerNode Listener AnalyserNode This guide assumes that you have a good knowledge of HTML CSS and JavaScript and you know how to create files and upload

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Web Audio Programming for Music Production Taylor & Francis Group, 2019-02-08

Design of a Binaural Synthesis Processor in the Browser Using Web Audio API Arnau Julià Collados, 2014 ANGL S Binaural technology intends to recreate a 3D sound experience over headphones This can be achieved by means of binaural recordings using microphones inserted in the ear canal or by binaural synthesis The latter simulates virtual sources and room effect using dedicated filters namely HRTFs The Web Audio API is a W3C standard API for processing and synthesizing audio in web applications As it is still in a process of development and the documentation is scarce a deep study of the Web Audio API has been done The aim of this project is to develop a real time binaural synthesis processor in the browser using the Web Audio API For the binaural synthesis approach two different processing structures have been developed synthesis of measured HRTF filters and synthesis of measured HRTF filters modeled as IIR filters and a delay

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