

HTML5

Fresno Summer Bootcamp 2015

Code

bit.ly/fresno-3-code

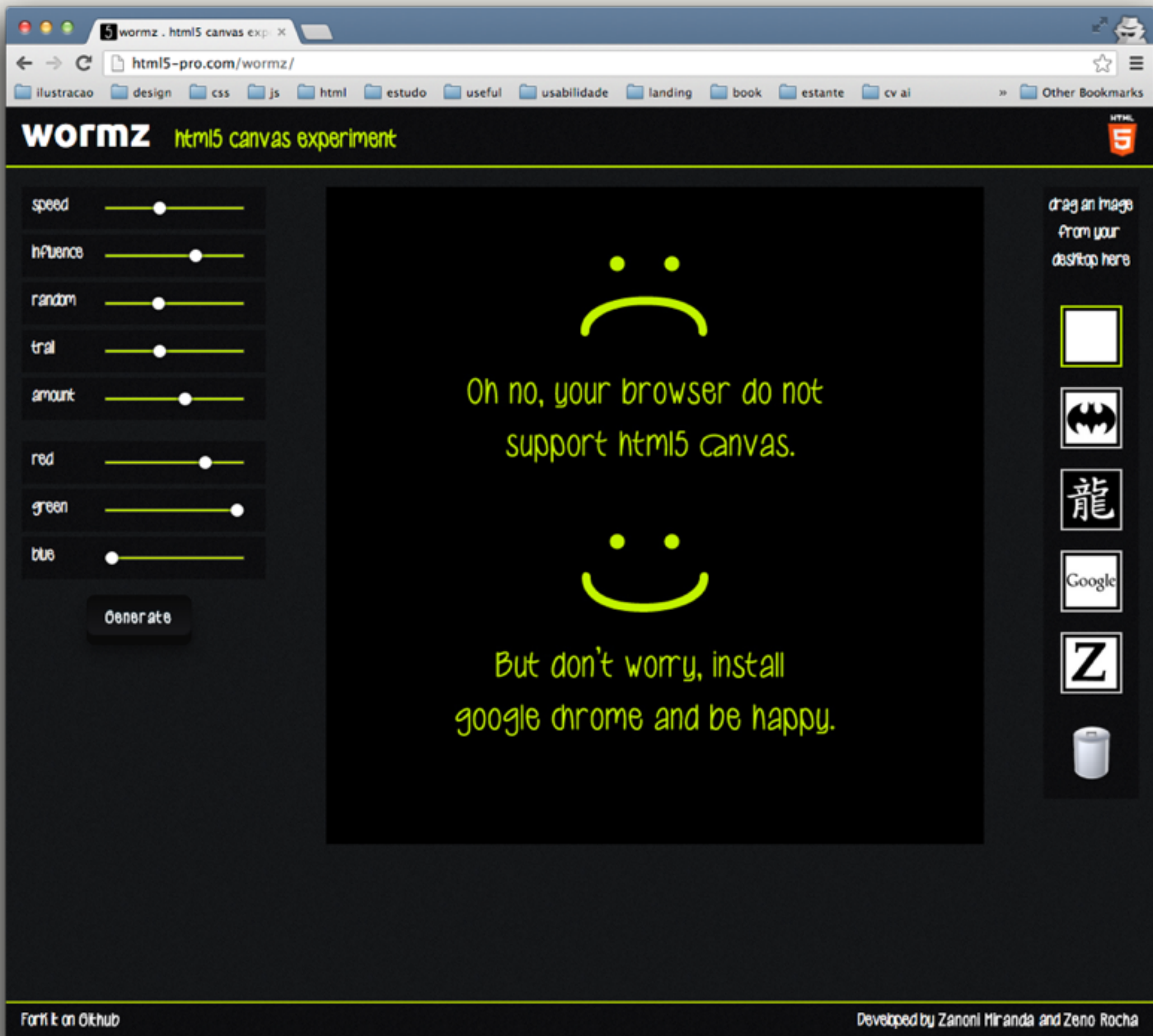
Slides

bit.ly/fresno-3-slides

Browser support

Browser support

- Detect browser version?
- Detect feature support?



HTML5 PLEASE

Use the new and shiny responsibly.

Look up HTML5, CSS3, etc features, know if they are ready for use, and if so find out how you should use them – with polyfills, fallbacks or as they are. [tell me more](#) ►

box-shadow

[link to this search](#) ›

Explore features

supported by [IE10+](#) • [IE9+](#) • [IE8+](#) • [IE7+](#) • [no IE](#)

not supported by [mobile devices](#) • [older mobile devices](#)

requiring [prefixes](#) • [polyfill](#) • [fallback](#)

that you should [use](#) • [use with caution](#) • [avoid](#)

that are [css](#) • [html](#) • [api](#) • [js](#)

[all features](#)

CSS

box-shadow

caution

`box-shadow` is safe to use most of the time, except when you are applying it on a large area as that may cause significant performance impact when interacting with the page (on scroll and hovers, but also transitions and animations).

Polyfills are unnecessary for box-shadow. They are too costly and slow down page load. Users without a modern browser will not see a shadow, but aren't checking your site in multiple browsers anyhow.

Box shadows can also be applied safely without prefixes.

html5please.com

[View browser share %](#) [Edit this info](#)

Can I use...

[Suggestions](#)[Feed](#)[Twitter](#)

697

Compatibility tables for support of HTML5, CSS3, SVG and more in desktop and mobile browsers.

[Flattr](#)

TOP

Latest update: [Five new features added: Templates, JPEG-XR, Channel messaging, Opus & Pointer events \(May 31, 2013\)](#)

[AdChoices](#)[HTML5 Canvas Demo](#)[HTML5 and CSS3](#)[HTML5 Mobile](#)[HTML5 JQuery](#)

Search:

Index

Tables

[Import stats](#)[FAQ](#)[Resources](#)[Embed](#)[Compatibility tables](#)[Browser comparison](#)[Show options](#) = Supported = Not supported = Partially supported = Support unknown

Show all tables

Form validation - Working Draft

Method of setting required fields and field types without requiring JavaScript

*Usage stats:

Global

Support:	62.1%
Partial support:	3.62%
Total:	65.72%

[Show all versions](#)

	IE	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Blackberry Browser
								2.1	
								2.2	
						3.2		2.3	
						4.0-4.1		3.0	
	8.0					4.2-4.3		4.0	
	9.0	21.0	27.0	5.1		5.0-5.1		4.1	7.0
Current	10.0	22.0	28.0	6.0	15.0	6.0-6.1	5.0-7.0	4.2	10.0
Near future	11.0	23.0	29.0	7.0	16.0	7.0			
Farther future		24.0							

Parent feature: [HTML5 form features](#)[Notes](#)[Known issues \(1\)](#)[Resources \(2\)](#)[Feedback](#)[Edit on GitHub](#)

Partial support in Safari refers to lack of notice when form with required fields is attempted to be submitted.

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BASICS

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Modernizr is a JavaScript library that detects HTML5 and CSS3 features in the user's browser.

Why use Modernizr?

Taking advantage of cool new web technologies is great fun, until you have to support browsers that lag behind. Modernizr makes it easy for you to write conditional JavaScript *and* CSS to handle each situation, whether a browser supports a feature or not. It's perfect for doing progressive enhancement easily.

How it works

Modernizr runs quickly on page load to detect features; it then creates a JavaScript object with the results, and adds classes to the `html` element for you to key your CSS on. Modernizr supports dozens of tests, and optionally includes [YepNope.js](#) for conditional loading of external `.js` and `.css` resources.

Check out the [full list of features](#) that Modernizr detects, or learn more about [conditional resource loading with Modernizr](#).

“An indispensable tool.”

— Bruce Bowman, sr. product manager, Edge Tools & Services

Download Modernizr 2.6.2

Use the commented, uncompressed Development version to develop with and learn from.

[View documentation](#)



DEVELOPMENT

Uncompressed, 42 Kb

Then, dive into the Production build tool and pick just the tests you need!



PRODUCTION

Configure Your Build

Get started with Modernizr

While Modernizr gives you finer control over the experience through JavaScript-driven feature detection, it is important to continue to use best practices throughout your development process. Use progressive enhancement wherever you can, and don't sacrifice accessibility for convenience or performance.

- [Documentation: Getting started](#)
- [Taking Advantage of HTML5 and CSS3 with Modernizr](#), Faruk Ateş
- [How to use Modernizr](#), Inayaili de León
- [Modernizr: front-end development done right](#), Ryan Seddon
- [wiki] [The Undetectables: features that cannot be detected](#)
- [wiki] [Cross-browser Polyfills](#)

Also check out our [Resources section](#).

Tip: check our [Modernizr test suite](#) to quickly test your current browser's features.



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Latest news

April 2nd, 2013

[Modernizr 3, Stickers & Diversity](#)

News on v.3, stickers, and a message from the team.

PREVIOUS

January 7th, 2013

[Modernizr Policy on Browser Bugs and Feature Detects](#)

September 4th, 2012

[Modernizr 2.6.2 released](#)

July 19th, 2012

[Modernizr 2.6 released](#)

Exercise

Detect if user has Web SQL support using Modernizr

<!doctype html>

Exercise

Convert a page written in XHTML to HTML5 markup

Structure

- header, footer
- main, article
- section, aside, nav...



Audio

Exercise

Create a page that autoplays
Zelda's soundtrack on loop

<audio>

- autoplay
- controls
- loop
- muted
- preload



Video

Exercise

Create a page that contains a
preloaded video with a Rabbit cover

<*video*>

- autoplay
- controls
- loop
- muted
- preload
- **poster**



Input

Exercise

Rewrite form using HTML5 inputs

<input>

- types (url, tel, color)
- attributes (autofocus, required)
- validators (email, pattern)

Highlight

Exercise

Highlight a search result using an HTML5 tag

Progress

Exercise

Display a progress bar at 70% using HTML5