

Learning ECMAScript 6: Moving to the New JavaScript

Joris Hermans

Video 1.4

Browser Support



In this Video, we are going to take a look at...

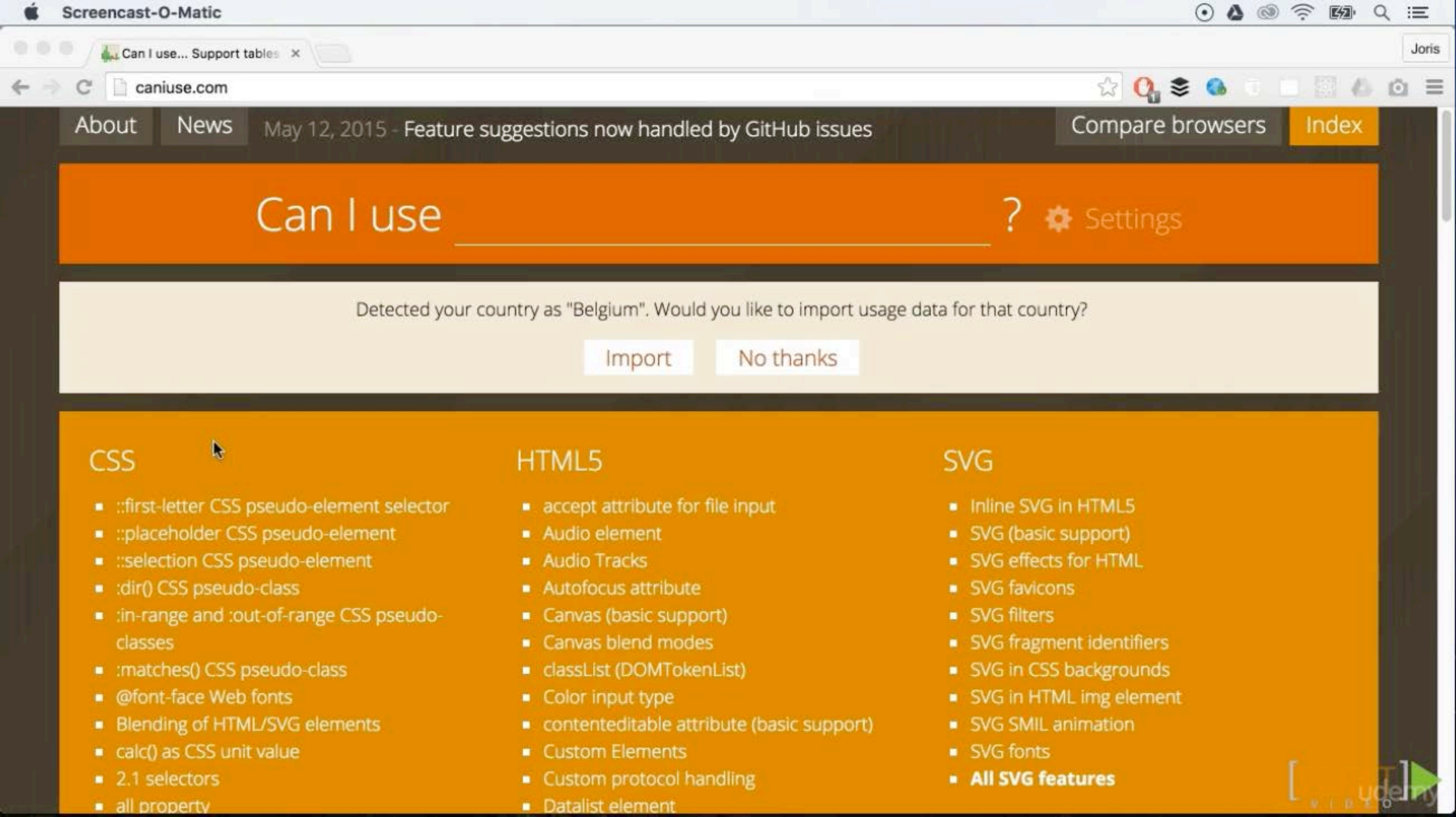
- Types of browser support
- Feature check tool
- ES6/7 table
- Browser testing tool

Evergreen Browsers



Support Types

- Native support
- Transpiling
- Polyfilling



About

News

May 12, 2015 - Feature suggestions now handled by GitHub issues

Compare browsers

Index

Can I use

?



Settings

Detected your country as "Belgium". Would you like to import usage data for that country?

Import

No thanks

CSS

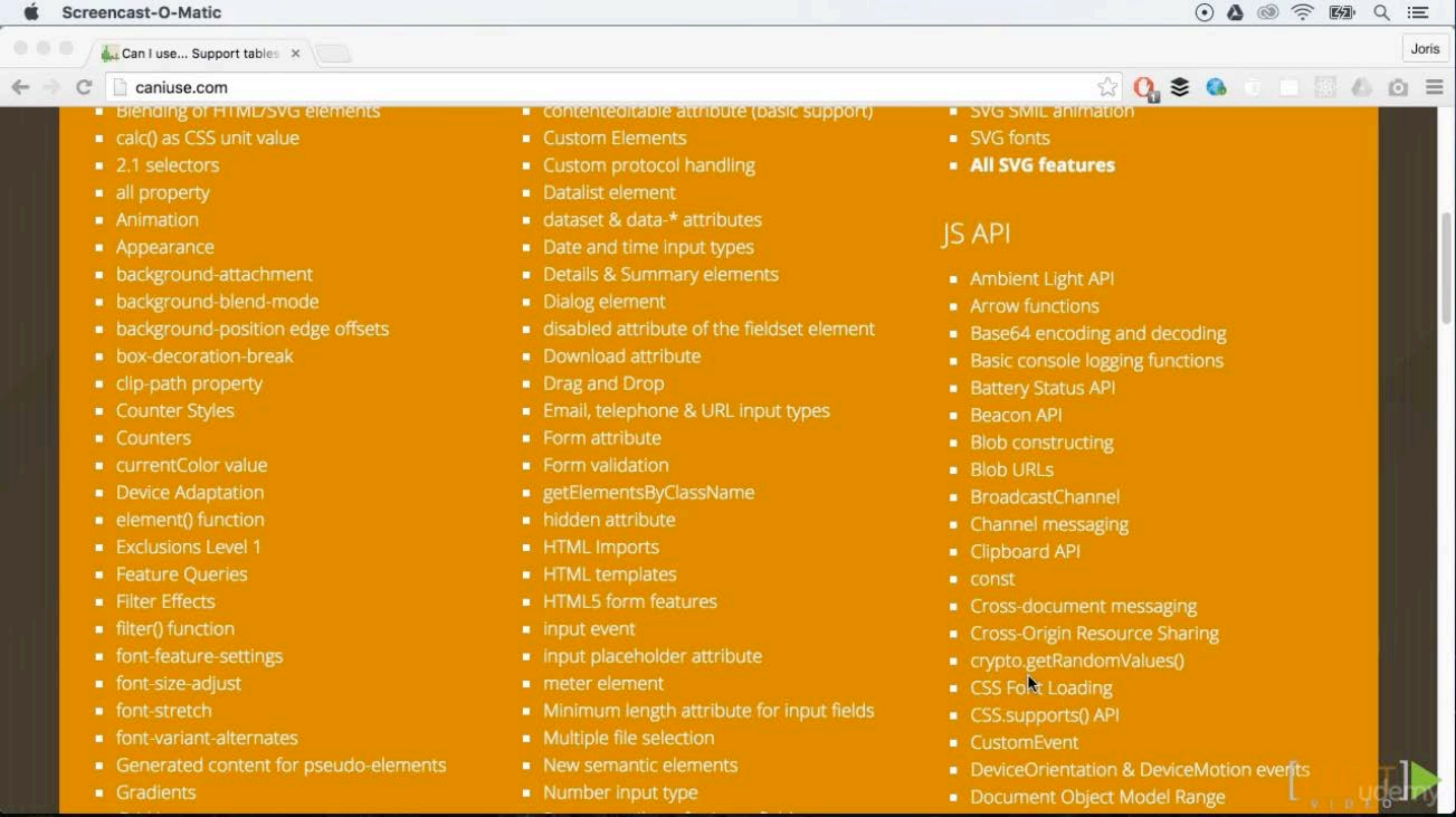
- ::first-letter CSS pseudo-element selector
- ::placeholder CSS pseudo-element
- ::selection CSS pseudo-element
- :dir() CSS pseudo-class
- :in-range and :out-of-range CSS pseudo-classes
- :matches() CSS pseudo-class
- @font-face Web fonts
- Blending of HTML/SVG elements
- calc() as CSS unit value
- 2.1 selectors
- all property

HTML5

- accept attribute for file input
- Audio element
- Audio Tracks
- Autofocus attribute
- Canvas (basic support)
- Canvas blend modes
- classList (DOMTokenList)
- Color input type
- contenteditable attribute (basic support)
- Custom Elements
- Custom protocol handling
- Datalist element

SVG

- Inline SVG in HTML5
- SVG (basic support)
- SVG effects for HTML
- SVG favicons
- SVG filters
- SVG fragment identifiers
- SVG in CSS backgrounds
- SVG in HTML img element
- SVG SMIL animation
- SVG fonts
- **All SVG features**



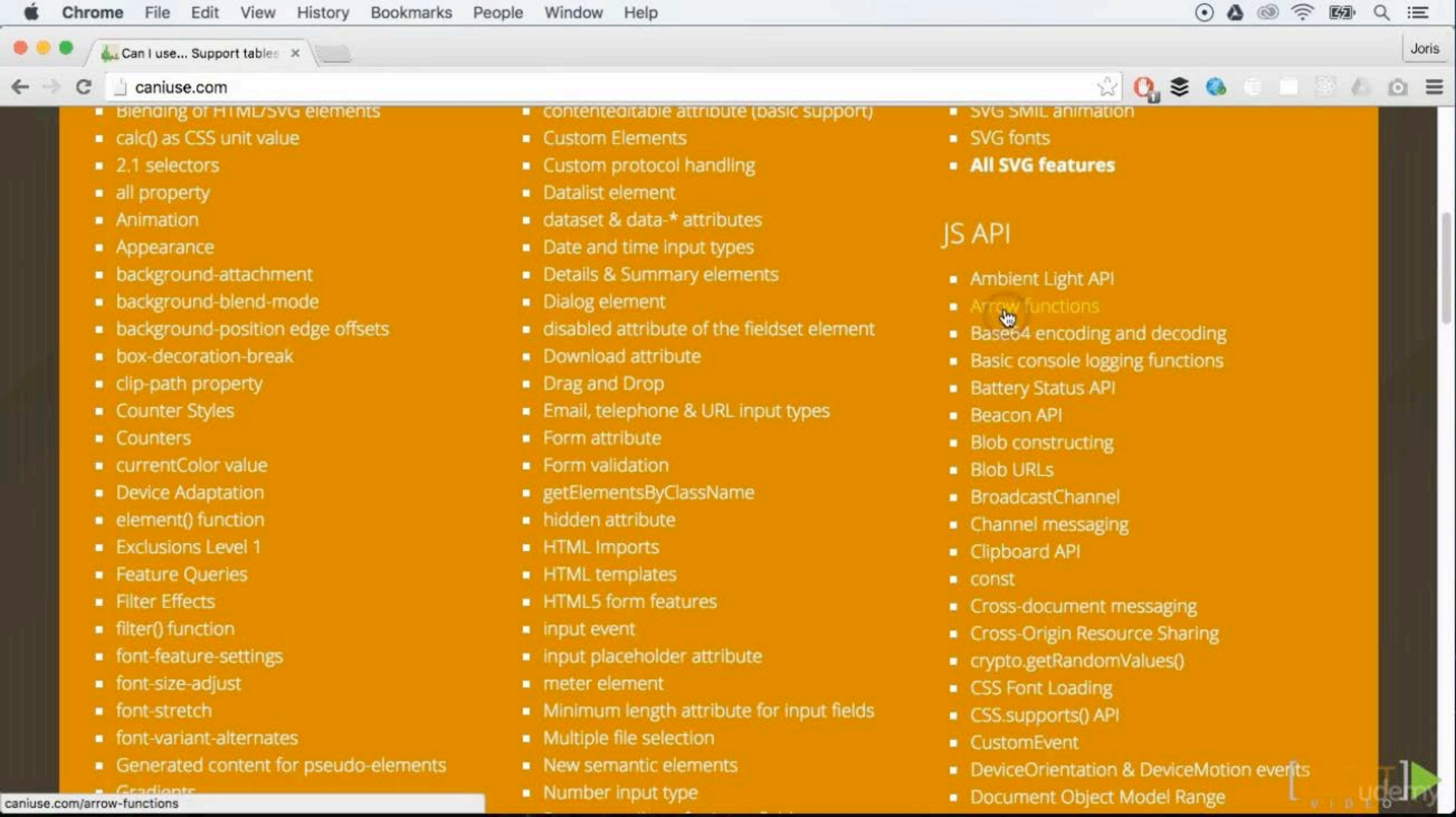
- Blending of HTML/SVG elements
- calc() as CSS unit value
- 2.1 selectors
- all property
- Animation
- Appearance
- background-attachment
- background-blend-mode
- background-position edge offsets
- box-decoration-break
- clip-path property
- Counter Styles
- Counters
- currentColor value
- Device Adaptation
- element() function
- Exclusions Level 1
- Feature Queries
- Filter Effects
- filter() function
- font-feature-settings
- font-size-adjust
- font-stretch
- font-variant-alternates
- Generated content for pseudo-elements
- Gradients

- contenteditable attribute (basic support)
- Custom Elements
- Custom protocol handling
- Datalist element
- dataset & data-* attributes
- Date and time input types
- Details & Summary elements
- Dialog element
- disabled attribute of the fieldset element
- Download attribute
- Drag and Drop
- Email, telephone & URL input types
- Form attribute
- Form validation
- getElementsByClassName
- hidden attribute
- HTML Imports
- HTML templates
- HTML5 form features
- input event
- input placeholder attribute
- meter element
- Minimum length attribute for input fields
- Multiple file selection
- New semantic elements
- Number input type

- SVG SMIL animation
- SVG fonts
- **All SVG features**

JS API

- Ambient Light API
- Arrow functions
- Base64 encoding and decoding
- Basic console logging functions
- Battery Status API
- Beacon API
- Blob constructing
- Blob URLs
- BroadcastChannel
- Channel messaging
- Clipboard API
- const
- Cross-document messaging
- Cross-Origin Resource Sharing
- crypto.getRandomValues()
- CSS Font Loading
- CSS.supports() API
- CustomEvent
- DeviceOrientation & DeviceMotion events
- Document Object Model Range



- Blending of HTML/SVG elements

- calc() as CSS unit value

- 2.1 selectors

- all property

- Animation

- Appearance

- background-attachment

- background-blend-mode

- background-position edge offsets

- box-decoration-break

- clip-path property

- Counter Styles

- Counters

- currentColor value

- Device Adaptation

- element() function

- Exclusions Level 1

- Feature Queries

- Filter Effects

- filter() function

- font-feature-settings

- font-size-adjust

- font-stretch

- font-variant-alternates

- Generated content for pseudo-elements

- Gradients

- contenteditable attribute (basic support)

- Custom Elements

- Custom protocol handling

- Datalist element

- dataset & data-* attributes

- Date and time input types

- Details & Summary elements

- Dialog element

- disabled attribute of the fieldset element

- Download attribute

- Drag and Drop

- Email, telephone & URL input types

- Form attribute

- Form validation

- getElementsByClassName

- hidden attribute

- HTML Imports

- HTML templates

- HTML5 form features

- input event

- input placeholder attribute

- meter element

- Minimum length attribute for input fields

- Multiple file selection

- New semantic elements

- Number input type

- SVG SMIL animation

- SVG fonts

- **All SVG features**

JS API

- Ambient Light API

- **Arrow functions**

- Base64 encoding and decoding

- Basic console logging functions

- Battery Status API

- Beacon API

- Blob constructing

- Blob URLs

- BroadcastChannel

- Channel messaging

- Clipboard API

- const

- Cross-document messaging

- Cross-Origin Resource Sharing

- crypto.getRandomValues()

- CSS Font Loading

- CSS.supports() API

- CustomEvent

- DeviceOrientation & DeviceMotion events

- Document Object Model Range

#

Arrow functions - OTHER

Global 55.12%

Function shorthand using => syntax and lexical this binding.

Current aligned Usage relative Show all

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
			29						
			45						
			48						
		45	49						
8		46	50			8.4			
11	13	47	51	9.1	38	9.2			
	14	48	52	10	39				
		49	53	TP	40				
		50	54						

Safari & Chrome for iOS 8.1-8.4
Not supported
Browser usage
Global: 0.54%

Notes Known issues (0) Resources (6) Feedback

No notes

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
			45						
			48					4.3	
		45	49			8.4		4.4	
8		46	50			9.2		4.4.4	
11	13	47	51	9.1	38	9.3	8	50	50
	14	48	52	10	39				
		49	53	TP	40				
		50	54						

Notes Known issues (0) Resources (6) Feedback

- Specification [ecma-international.org] ref
- Arrow Functions (MDN) [developer.mozilla.org] ref info
- ECMAScript 6 features: Arrows [github.com] info
- IE platform status: Shipped [status.modern.IE] official status
- Chrome platform status: Enabled by default [chromestatus.com] official status
- WebKit platform status: In Development [webkit.org] official status

ChromeFileEditViewHistoryBookmarksPeopleWindowHelp

ES6compatibility x

https://kangax.github.io/compat-table/es6/

COMPAT ES

ECMAScript

56nextintlnon-standard

compatibility table

Flattr38

by kangax & webbedspace & zloirock

Fork317

Sort byEngine types

Show obsolete platforms

Show unstable platforms

V8SpiderMonkeyJavaScriptCoreChakraCarakanKJSOther

Minor difference (1 point)Small feature (2 points)Medium feature (4 points)Large feature (8 points)

		Compilers/polyfills						Desktop browsers									
	93%	58%	74%	42%	60%	16%	15%	60%	79%	90%	63%	85%	90%	90%	90%	93%	
Feature name	Current browser	Traceur	Babel + core-js ^[2]	Closure	Type-Script + core-js	es6-shim	IE 11	Edge 12 ^[4]	Edge 13 ^[4]	Edge 14 ^[4]	FF 38 ESR	FF 45 ESR	FF 46	FF 47	FF 48	FF 49	CH 50
Optimisation																	
proper tail calls (tail call optimisation)	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2	0/2
Syntax																	
default function parameters	7/7	4/7	4/7	4/7	5/7	0/7	0/7	0/7	0/7	7/7	3/7	4/7	4/7	4/7	4/7	4/7	7/7
rest parameters	5/5	4/5	3/5	2/5	4/5	0/5	0/5	5/5	5/5	5/5	4/5	5/5	5/5	5/5	5/5	5/5	5/5
spread (...) operator	15/15	15/15	13/15	12/15	4/15	0/15	0/15	12/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15
object literal extensions	6/6	6/6	6/6	4/6	6/6	0/6	0/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6	6/6
for..of loops	7/9	9/9	9/9	6/9	3/9	0/9	0/9	6/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	7/9	9/9
octal and binary literals	4/4	2/4	4/4	4/4	4/4	2/4	0/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4
template literals	5/5	4/5	4/5	3/5	3/5	0/5	0/5	4/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5	5/5
RegExp "y" and "u" flags	5/5	3/5	3/5	0/5	0/5	0/5	0/5	2/5	4/5	4/5	2/5	2/5	5/5	5/5	5/5	5/5	5/5
destructuring declarations	21/22	20/22	21/22	18/22	15/22	0/22	0/22	0/22	0/22	21/22	19/22	19/22	19/22	21/22	21/22	21/22	21/22

VIDEO



Features

Pricing

Live API

About Us

Sign In

Sign Up

Live interactive cross-browser testing

I

Test now!



Windows Vista



Chrome

49

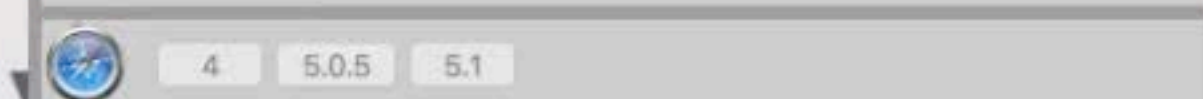
Get a browser and start testing in 5 seconds!

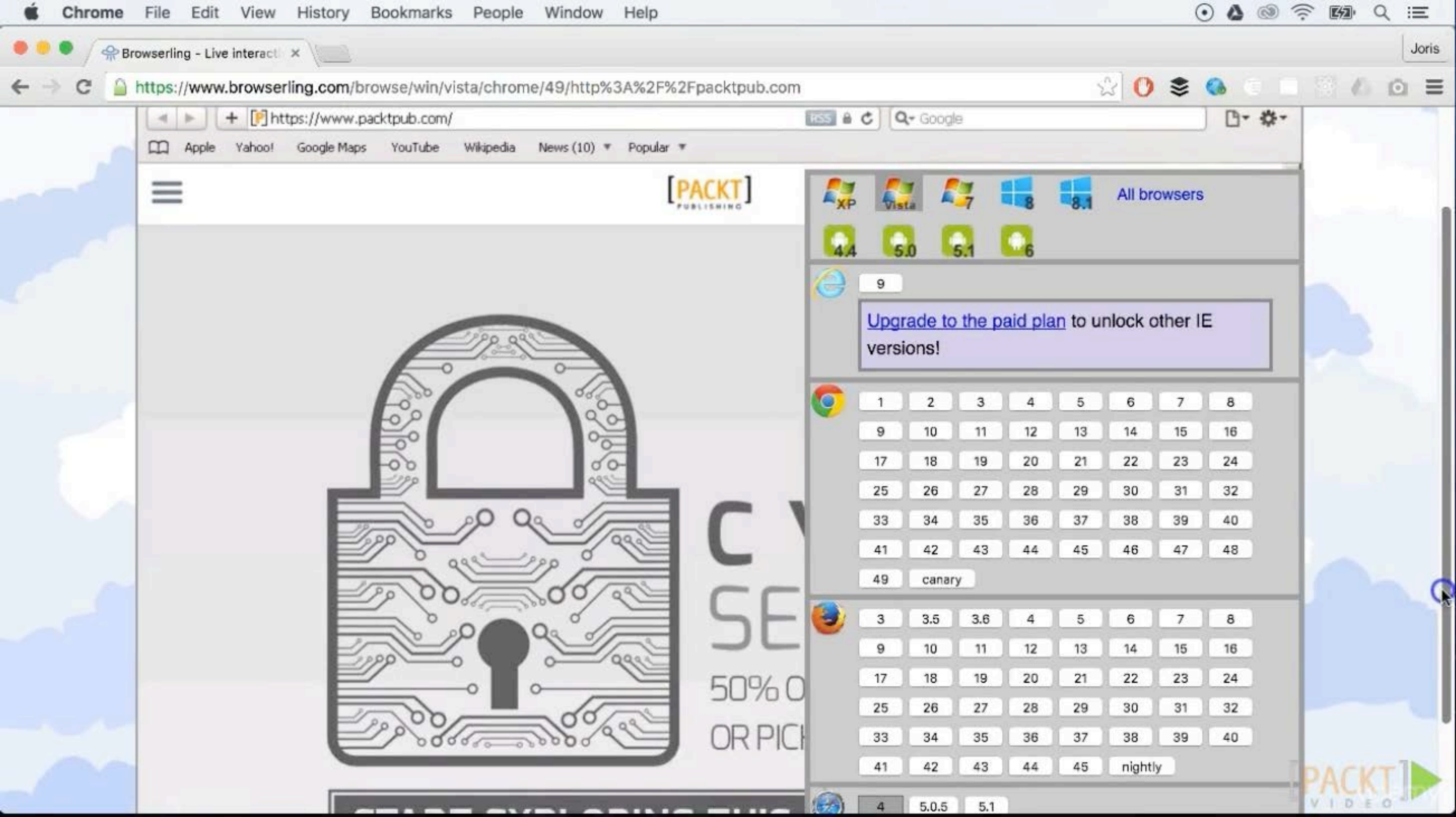
 49
 [Run](#)


[Tools](#)
[End Session](#)



Windows 7 and IE 11 is only available to paying users. [Upgrade to the paid plan](#) to unlock Windows 7 and IE 11!



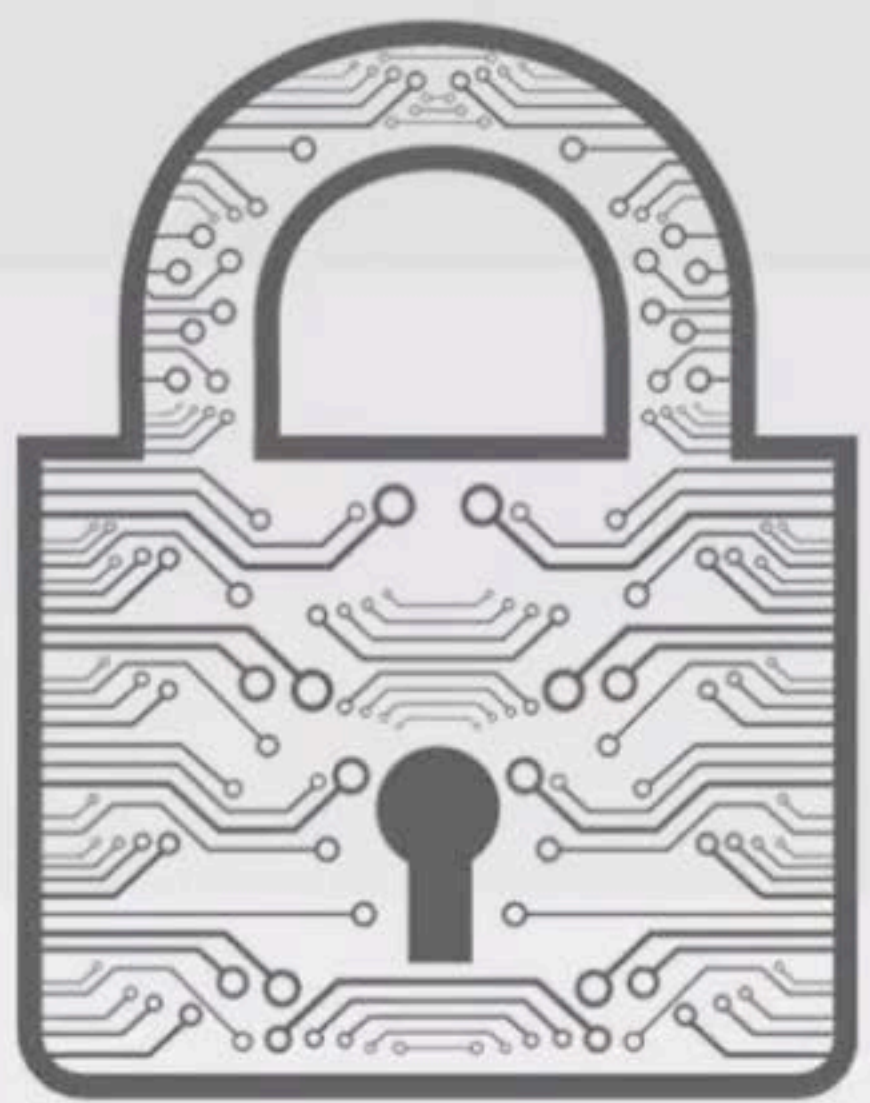


Browserling - Live interact

Joris

<https://www.browserling.com/browse/win/vista/chrome/49/http%3A%2F%2Fpacktpub.com>

Apple Yahoo! Google Maps YouTube Wikipedia News (10) Popular



50% OFF
OR PICK

XP Vista 7 8 8.1 All browsers

4.4 5.0 5.1 6

9

Upgrade to the paid plan to unlock other IE versions!

1 2 3 4 5 6 7 8

9 10 11 12 13 14 15 16

17 18 19 20 21 22 23 24

25 26 27 28 29 30 31 32

33 34 35 36 37 38 39 40

41 42 43 44 45 46 47 48

49 canary

3 3.5 3.6 4 5 6 7 8

9 10 11 12 13 14 15 16

17 18 19 20 21 22 23 24

25 26 27 28 29 30 31 32

33 34 35 36 37 38 39 40

41 42 43 44 45 nightly

4 5.0.5 5.1



Summary

- Set up our environment
- Basic transpiling
- Browser support

Next Section

ES6 Basics

