# OffscreenCanvas

Andreas Hocevar, OpenLayers mail@ahocevar.com



Improve rendering performance and avoid blocking the Ul in OpenLayers

OpenLayers is a library for creating interactive maps on the web. It can display map tiles, vector data and markers loaded from any source on any web page.

## The problem

Map generation and update process with async fetch/XHR

load

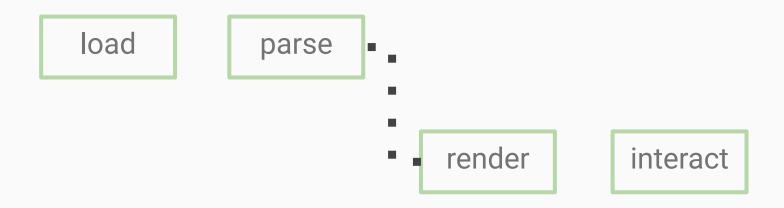
parse

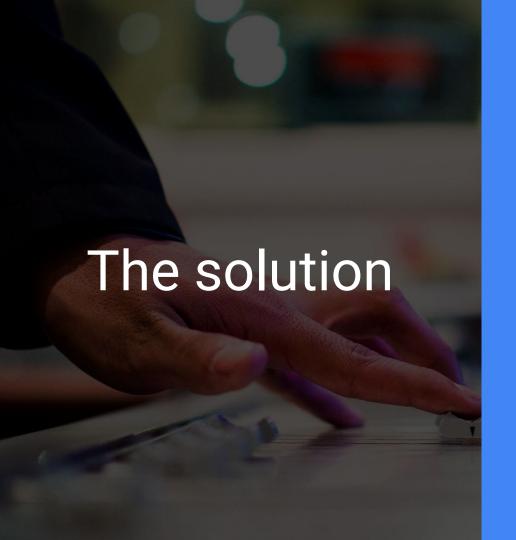
render

interact

## The problem

Map generation and update process with web workers





Eliminate UI blocking by moving the whole rendering pipeline into a worker.

With OffscreenCanvas!

#### The solution

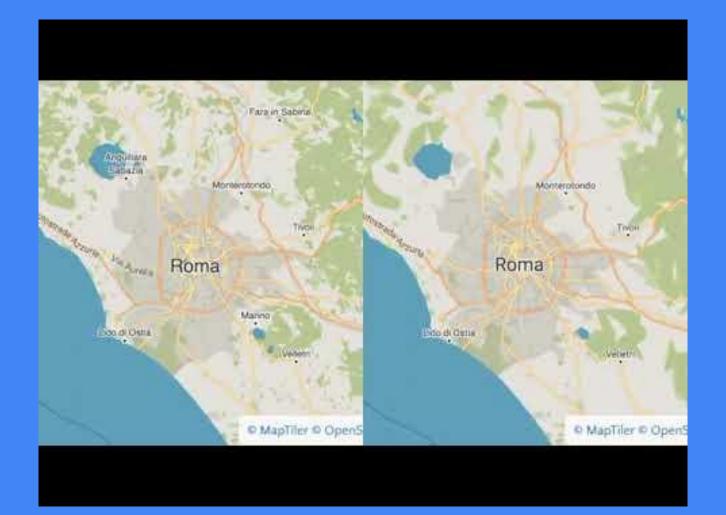
Map generation and update process with OffscreenCanvas

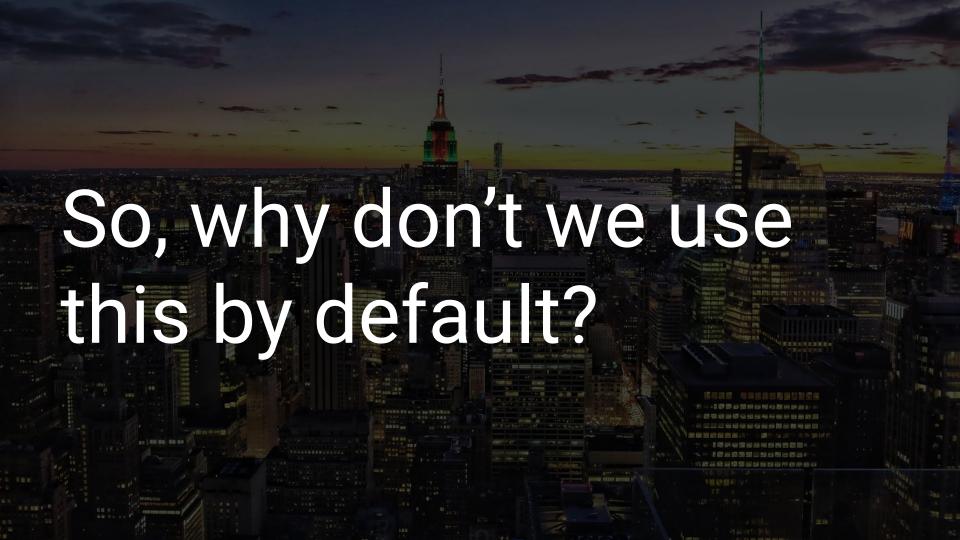
load

parse

render

interact





#### Browser compatibility

Undate compatibility data on GitHub

Opdate compatibility data on Github												
-												
Chrome	<b>&amp;</b> Edge	Eirefox	(a) Internet Explorer	<b>O</b> Opera	Safari	Android webview	Chrome for Android	Eirefox for Android	Opera for Android	Safari on iOS	Samsung Internet	
OffscreenCanvas												
69	≤79	44 *	No	56	No	No	69	44 *	48	No	10.0	



