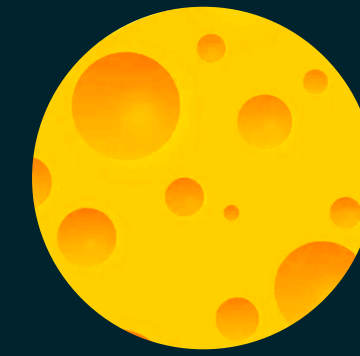
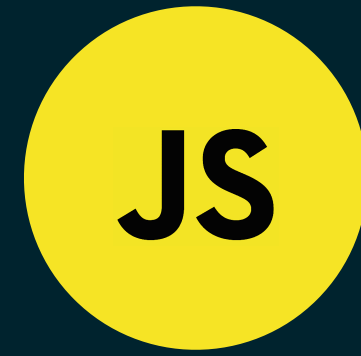


# Utility First CSS Isn't Inline Styles



Sarah Dayan | Principal Engineer at Algolia | CSS Day 2024



**Hi, I'm Sarah!** 🙋

**Principal Engineer at Algolia**  
**JavaScript & CSS Lover**  
**Massive Cheese Enthusiast**



Is CSS even  
a programming  
language?



**Are you sure you  
don't want to be a  
manager?**



# Rapidly build modern websites without ever leaving your HTML.

A utility-first CSS framework packed with classes like `flex`, `pt-4`, `text-center` and `rotate-90` that can be composed to build any design, directly in your markup.

[Get started](#)

⌘ K



“Tailwind CSS is the only framework that I've seen scale on large teams. It's easy to customize, adapts to any design, and the build size is tiny.”

**Sarah Dayan**  
Staff Engineer, Algolia

```
1 <figure class="md:flex bg-slate-100 rounded-xl p-8 md:p-0 dar
2 <img class="w-24 h-24 md:w-48 md:h-auto md:rounded-none rou
3 <div class="pt-6 md:p-8 text-center md:text-left space-y-4"
4 <blockquote>
5 <p class="text-lg font-medium">
6   "Tailwind CSS is the only framework that I've seen sc
7   on large teams. It's easy to customize, adapts to any
8   and the build size is tiny."
9 </p>
10 </blockquote>
11 <figcaption class="font-medium">
12 <div class="text-sky-500 dark:text-sky-400">
13   Sarah Dayan
14 </div>
15 <div class="text-slate-700 dark:text-slate-500">
16   Staff Engineer, Algolia
17 </div>
18 </figcaption>
19 </div>
20 </figure>
21
```

```
<ul class="divide-y divide-gray-100">
  <li class="flex gap-x-4 py-5">
    
    <div class="min-w-0">
      <p class="text-sm font-semibold leading-6 text-gray-900">
        Sarah Dayan
      </p>
      <p class="mt-1 truncate text-xs leading-5 text-gray-500">
        Principal Engineer at Algolia
      </p>
    </div>
  </li>
</ul>
```

```
<ul class="divide-y divide-gray-100">
  <li class="flex gap-x-4 py-5">
    
    <div class="min-w-0">
      <p class="text-sm font-semibold leading-6 text-gray-900">
        Sarah Dayan
      </p>
      <p class="mt-1 truncate text-xs leading-5 text-gray-500">
        Principal Engineer at Algolia
      </p>
    </div>
  </li>
</ul>
```

**Atomic (or utility-first) CSS**  
**Visual APIs**

```
<ul class="list">
  <li class="list-item">
    
    <div class="list-content">
      <p class="list-heading">
        Sarah Dayan
      </p>
      <p class="list-subheading">
        Principal Engineer at Algolia
      </p>
    </div>
  </li>
</ul>
```



```
<ul class="list">
  <li class="list-item">
    
    <div class="list-content">
      <p class="list-heading">
        Sarah Dayan
      </p>
      <p class="list-subheading">
        Principal Engineer at Algolia
      </p>
    </div>
  </li>
</ul>
```

**Semantic CSS**

**Identity-based contract**

# Create small, reusable CSS that scales as your website grows.

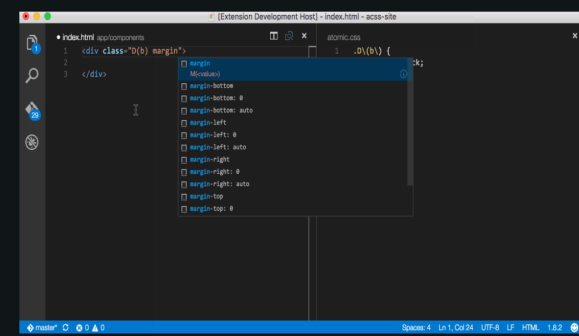
Atomizer is an unopinionated CSS utility library for modern websites. Just add classes like `o(f)` and `Fz(1.5rem)` to your markup to efficiently style your website.

[Get Started](#) [Try it now!](#)

## Meet Atomizer!

Atomizer generates a simple static CSS stylesheet from the Atomizer classes you define in your project or predeclared configured styles - it's up to you.

Atomizer is not opinionated, brings no CSS of its own and integrates nicely with your favorite task runner.



## Testimonials

We released Atomizer almost 10 years ago and to this day it is used on massive web

Truly pioneering work that deserves an enormous amount of credit — Tailwind

Initially I did not like the concept, I had experience in using Bootstrap UI Library

Atomizer is a v solves lots CS

# CSS Utility Classes and "Separation of Concerns"

Over the last several years, the way I write CSS has transitioned from a very "semantic" approach to something much more like what is often called "functional CSS."

Writing CSS this way can evoke a [pretty visceral reaction](#) from a lot of developers, so I'd like to explain how I got to this point and share some of the lessons and insights I've picked up along the way.

## Phase 1: "Semantic" CSS

One of the best practices you'll hear about when you're trying to learn how to CSS good is "separation of concerns."

# UnoCSS Instant On-demand Atomic CSS Engine

Customizable · Powerful · Fast · Joyful

[Getting Started](#) [Interactive Docs](#) [Playground](#)



### Fully Customizable

No core utilities, all functionalities are provided via presets.

[Getting Started](#) →



### Instant

No parsing, no AST, no scanning. It's 5x faster than Windi CSS or Tailwind CSS JIT.



### Lightweight

Zero deps and browser friendly: ~6kb min+brotili



### Rich Integrations

First class support of Vite, Webpack, PostCSS, CLI, VS Code, ESLint, etc.

[Learn more](#) →



### Shortcuts

Aliasing or grouping utilities, dynamically

[Configuration and usage](#) →



### Attributify Mode

Group utilities in attributes

[@unocss/preset-attributify](#) →



### Pure CSS Icons

Use any icon as a single class

[@unocss/preset-icons](#) →



### Variant Groups

Shorthand for group utils with common prefixes

[@unocss/transformer-variant-group](#) →



### CSS Directives

Reuse utils in CSS with @apply directive

[@unocss/transformer-directives](#) →

# Reimagine Atomic CSS

Oct 26, 2021 · 25min

This post will be a bit longer than usual. It's quite a big announcement to me, and there are many things I want to talk about. I'll be appreciated if you take the time to read through it. The table of contents is hidden on the left if you are on a desktop. Hope you enjoy :)

[中文 Chinese Version](#)

## What is Atomic CSS?

Let's first give a proper definition to **Atomic CSS**:

From [this article](#) by John Polacek:

Atomic CSS is the approach to CSS architecture that favors small, single-purpose classes with names based on visual function.

Some might also call it Functional CSS, or CSS utilities. Basically, you can say an

## Built for designing.

Create fast loading, highly readable, and 100% responsive interfaces with as little CSS as possible.

### Downloads

Css

[Minified v4.12.0](#) [Build v4.12.0](#)

Css in Js

[Styled System v0.2.0](#) [Theme UI v0.1.0](#)

### Getting Started

Copy the line of code below and paste it in the head of the html file(s) you want to include tachyons in.

```
<link rel="stylesheet" href="https://unpkg.com/tachyons@4.12.0/css/tachyons.min.css"/>
```

or install via npm

```
npm install tachyons@4.12.0
```

or grab all the source files and build+develop locally

```
git clone git@github.com:tachyons-css/tachyons.git  
cd tachyons
```

January 15, 2018

# In Defense of Utility-First CSS

**“Favor composition over inheritance”**. This piece of wisdom from *Design Patterns*, one of the most influential software engineering books, is the foundation of **utility-first CSS**. It also shares many principles with **functional programming**: **immutability, composability, predictability, and avoidance of side-effects**. The goal behind all those fancy terms is to write code that's **easier to maintain and to scale**.

Despite its growing popularity, utility-first CSS still hasn't convinced everyone. While some praise it, others have been vividly critical about such a practice. **I used to be in the latter group**. I was a BEM fan, sold to an approach I adopted for its advantages and ended up rooting for like we do for a sports team. I rejected utility-first because it was implying my beloved and familiar approach wasn't good anymore.

The screenshot shows the Tailwind CSS documentation page. It includes a search bar, navigation links for Documentation, Components, Templates, Screenshots, Playground, Resources, and Community. The main content area is titled "Get started with Tailwind CSS" and includes an "Installation" section with three steps: 1. Install Tailwind CSS, 2. Configure your template paths, and 3. Add the Tailwind directives to your CSS. Code snippets are shown in terminal windows for each step.





**Atomic CSS**

**Semantic CSS**





**Atomic CSS**

**Semantic CSS**





**It violates  
separation  
of concerns!**



It bloats  
the HTML!



**It's ugly  
and hard to read!**

Sarah Dayan  
**IN DEFENSE OF  
UTILITY-FIRST CSS**

**dotCSS 2019**

**[youtu.be/R5Oq4NES6lw](https://youtu.be/R5Oq4NES6lw)**

dot

dot CSS





**It's just the same  
as inline styles!**



**It's just the same  
as inline styles!**

Inline styles only  
have a **local impact.**

Well, almost 😅



```
<article style="color: darkblue">
  <header>
    <h2>Blade Runner 2049</h2>
  </header>
  <section>
    <p>
      Officer K (Ryan Gosling), a new blade runner for the Los
      Angeles Police Department, unearths a long-buried secret
      that has the potential to plunge what's left of society
      into chaos.
    </p>
  </section>
</article>
```

**No** pseudo-classes

**No** pseudo-elements

**No** combinators

**No** media queries

**No** animations

**Atomic classes live  
in *style sheets*.**

```
.on-hover\:text-red:hover {  
  color: red;  
}
```

```
<article>
  <header>
    <h2>Blade Runner 2049</h2>
  </header>
  <section>
    <p>
      Officer K (<a class="on-hover:text-red" href="#">Ryan
      Gosling</a>), a new blade runner for the Los Angeles Police
      Department, unearths a long-secret that has the potential
      to plunge what's left of society into chaos.
    </p>
  </section>
</article>
```

```
.group:hover  
.group-hover\:text-red {  
  color: red;  
}
```

```
<article class="group">
  <header class="group-hover:text-red">
    <h2>Blade Runner 2049</h2>
  </header>
  <section>
    <p>
      Officer K (Ryan Gosling), a new blade runner for the Los
      Angeles Police Department, unearths a long-secret that has
      the potential to plunge what's left of society into chaos.
    </p>
  </section>
</article>
```

## **Blade Runner 2049**

Officer K (Ryan Gosling), a new blade runner for the Los Angeles Police Department, unearths a long-secret that has the potential to plunge what's left of society into chaos.





**Wait, it gets quirkier.**

```
.peer:in-range ~ .peer-invalid {  
  visibility: hidden;  
}
```

```
.peer:out-of-range ~ .peer-invalid {  
  visibility: visible;  
}
```

```
<form>
  <label>
    <span>Date</span>
    <input
      type="date"
      class="peer"
      min="2024-01-01"
      max="2024-12-31"
    />
    <p class="peer-invalid">
      Please provide a valid date.
    </p>
  </label>
</form>
```

Date  

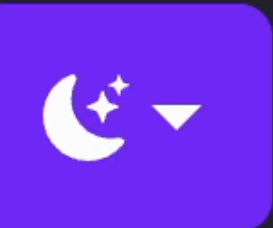
.col-4	.col-4	.col-4
--------	--------	--------

.col-sm-4	.col-sm-4	.col-sm-4
-----------	-----------	-----------

.col-md-4	.col-md-4	.col-md-4
-----------	-----------	-----------

.col-lg-4		
.col-lg-4		
.col-lg-4		

.col-xl-4		
.col-xl-4		
.col-xl-4		



```
@media (min-width: 768px) {  
  .col-md-1 {  
    flex: 0 0 auto;  
    width: 8.33333333%;  
  }  
  .col-md-2 {  
    flex: 0 0 auto;  
    width: 16.66666667%;  
  }  
  .col-md-3 {  
    flex: 0 0 auto;  
    width: 25%;  
  }  
  .col-md-4 {
```

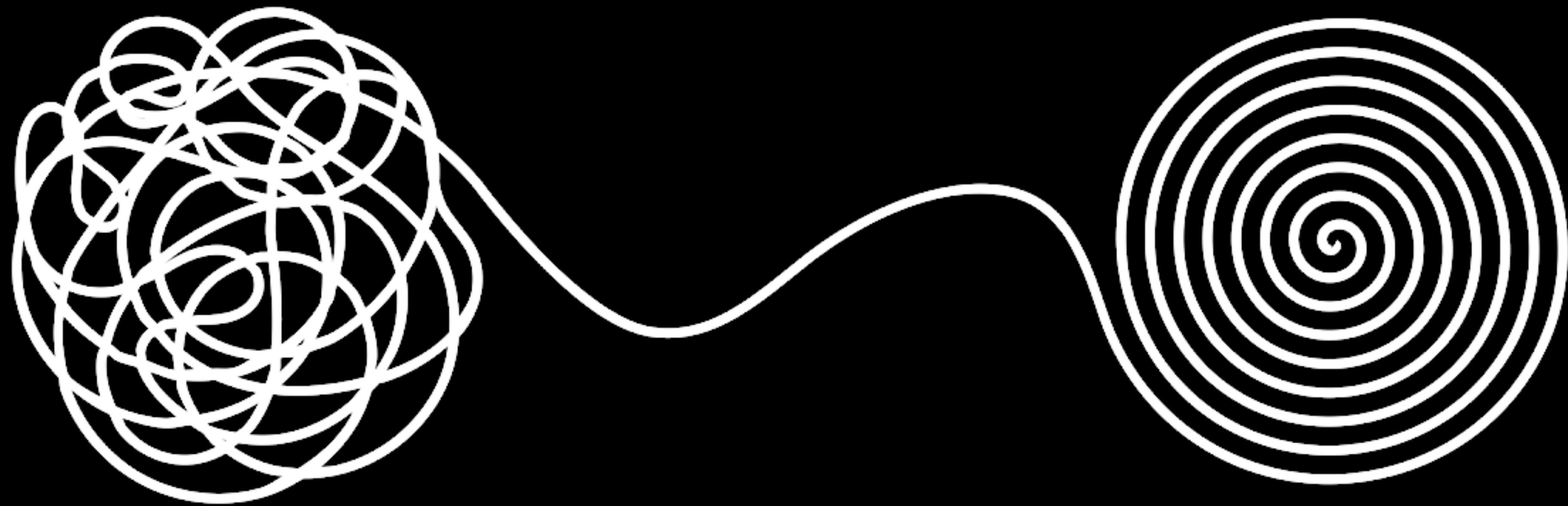
```
@media (hover: none)
and (pointer: coarse) {
  .on-touch\:block {
    display: block;
  }
}
```

```
@media (orientation: landscape) {  
  .on-landscape\:hidden {  
    display: none;  
  }  
}
```



```
@media (prefers-color-scheme: dark) {  
  .dark\:bg-darkblue {  
    color: darkblue;  
  }  
}
```

**Atomic classes  
have context.**

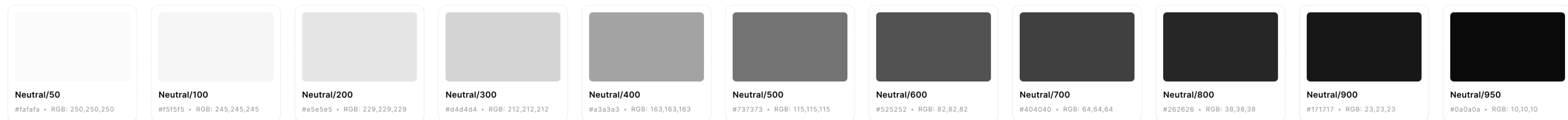


Inline styles  
are unbounded.

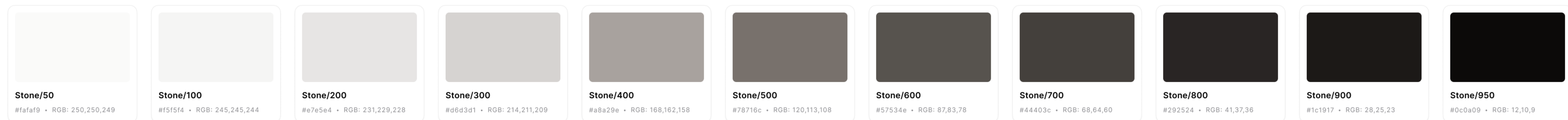
## Zinc



## Neutral



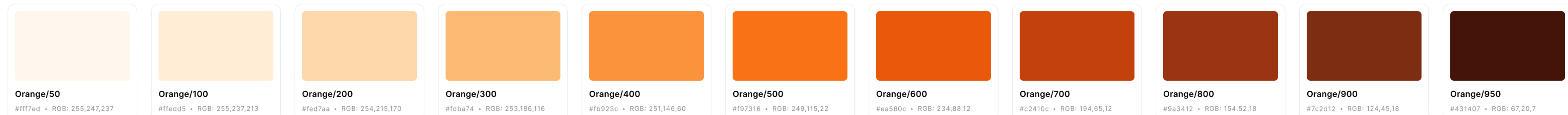
## Stone























## Red



## Orange



10	2.5rem	40px		40	10rem	160px	
11	2.75rem	44px		44	11rem	176px	
12	3rem	48px		48	12rem	192px	
14	3.5rem	56px		52	13rem	208px	
16	4rem	64px		56	14rem	224px	
20	5rem	80px		60	15rem	240px	
24	6rem	96px		64	16rem	256px	
28	7rem	112px		72	18rem	288px	
32	8rem	128px		80	20rem	320px	
36	9rem	144px		96	24rem	384px	



Inline styles don't  
have a **strategy**.

**Atomic classes**  
**are a *system*.**

Inline styles  
convey no intent.

```
.col  
{ float: left }
```

```
.col  
{ float: left }
```

```
.col  
{ float: left }
```

```
.col  
{ float: left }
```

```
.col  
{ float: left }
```

```
.col  
{ float: left }
```

```
.clearfix
```

```
.clearfix:after {  
  content: '';  
  display: table;  
  clear: both;  
}
```



```
<header>
  <h2
    style="
      overflow: hidden;
      text-overflow: ellipsis;
      white-space: nowrap
    "
  >
    Blade Runner 2049
  </h2>
</header>
```

```
<header>  
  <h2 class="truncate">  
    Blade Runner 2049  
  </h2>  
</header>
```

```
<header>
  <h2
    style="
      overflow: hidden;
      text-overflow: ellipsis;
      white-space: nowrap
    "
  >
    Blade Runner 2049
  </h2>
</header>
```

```
<header>
  <h2 class="truncate">
    Blade Runner 2049
  </h2>
</header>
```

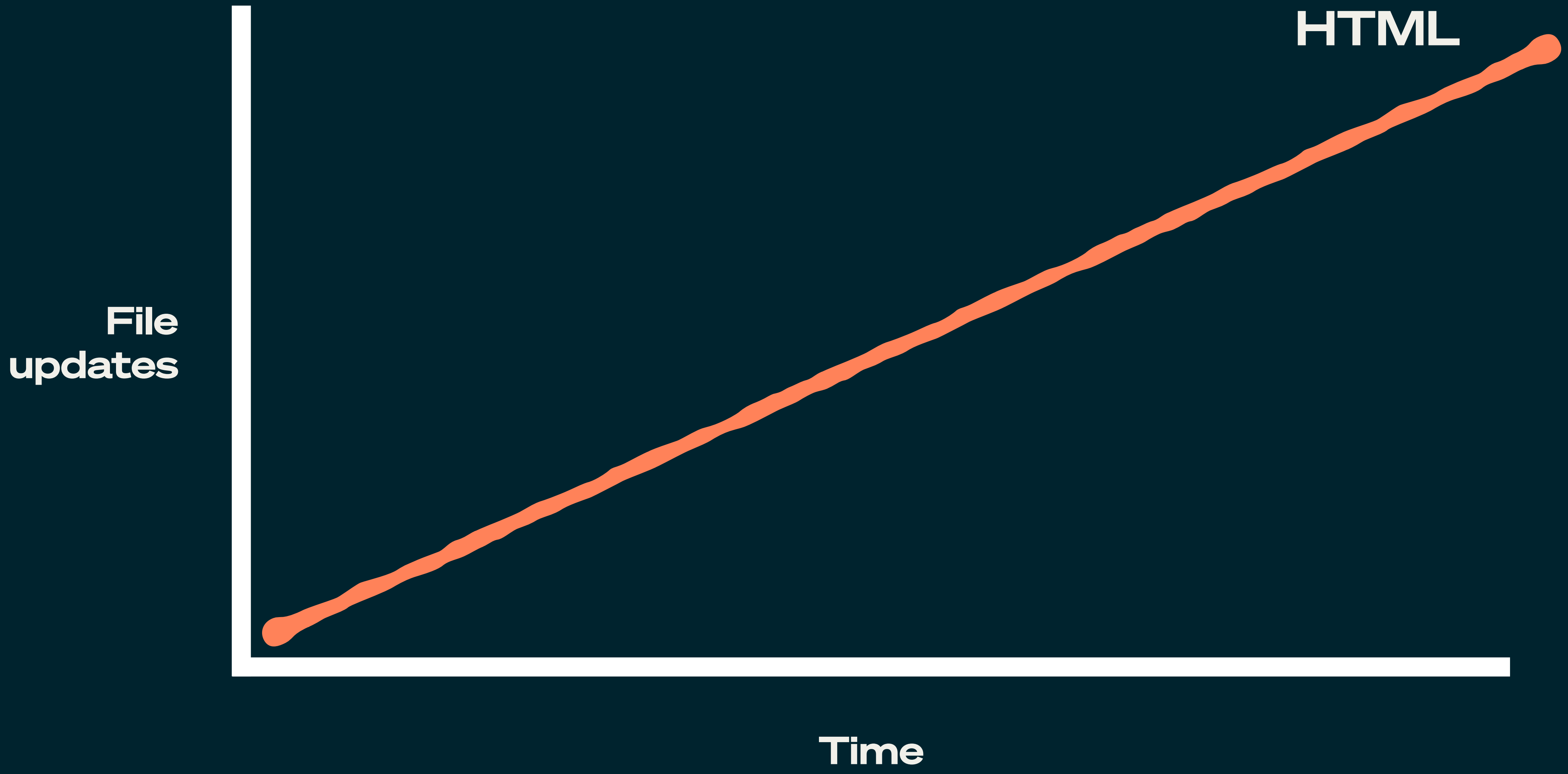
**All abstractions  
convey intent.**

**Atomic CSS**  
**abstracts visuals,**  
**not identity.**

**Atomic CSS**  
**abstracts visuals,**  
**not identity.**



**Inline styles  
aren't cacheable.**







# The New York Times

2024

## Even as Violent Crime Drops, Lawlessness Rises as an Election Issue

In most U.S. cities, rates of homicide and violent assault are down from pandemic-era highs. But property crimes have risen, fueling voter anxiety.

7 MIN READ

## Trump's Post-Verdict Playbook: Anger and Retribution, Regardless of Outcome

Donald Trump has a history of attacking investigators, blaming President Biden and seeking vengeance on those who cross him.

5 MIN READ



Haiyun Jiang for The New York Times

Senator John Fetterman has battled with progressives on Israel, immigration and energy, alienating some supporters.

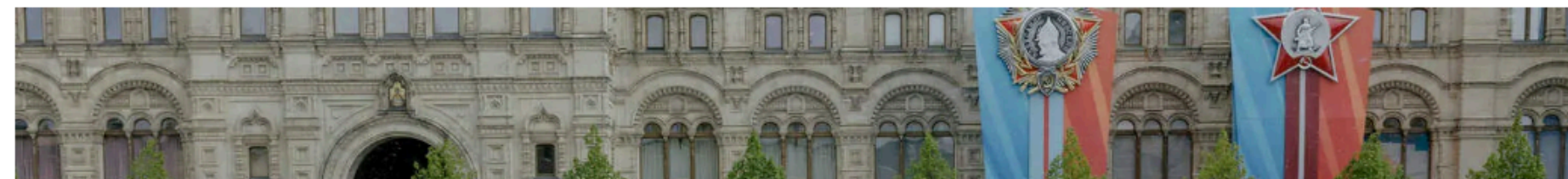
8 MIN READ

Election updates: Senator Tim Scott said Black Americans would be better off under another Trump administration.

See more updates 6+

## Optimistic About the War in Ukraine, Putin Unleashes a Purge at Home

Despite years of criticism, President Vladimir Putin has...



### Opinion

DAVID FRENCH  
'Contact. I.E.D.'

5 MIN READ



CHRISTOPHER HOOKS  
Try Living in Elon Musk's Company Town

14 MIN READ



MOHAMMAD ALI  
Indians Are About to Re-elect a Dangerous Islamophobe

6 MIN READ

MICHELLE COTTLE  
Marjorie Taylor Greene Has a Decision to







2024

# Even as Violent Crime Drops, Lawlessness Rises as an Election Issue

In most U.S. cities, rates of homicide and violent assault are down from pandemic-era highs. But property crimes have risen, fueling voter anxiety.

7 MIN READ



Elements Console Sources Network Performance Memory Application Security

Filter  Invert  Hide data URLs  Hide extension URLs

All Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other  Blocked response cookies  Blocked requests

3rd-party requests

200 ms 400 ms 600 ms 800 ms 1000 ms 1200 ms 1400 ms 1600 ms 1800 ms 2000 ms 2200 ms 2400 ms

Name	Headers	Preview	Response	Initiator	Timing	Cookies
www.nytimes.com	General Request URL: Request Method: Status Code: Remote Address: Referrer Policy:		bytes X-Nyt-Mktg-Group, X-Nyt-Mktg-Group			
tpc-check.html	Response Headers Accept-Ranges: Access-Control-Expose-Headers: Age: Cache-Control: Content-Encoding: Content-Length: Content-Security-Policy:		26 s-maxage=30,no-cache gzip 174944 upgrade-insecure-requests:			

Content-Type: text/html; charset=utf-8  
 Date: Sun, 26 May 2024 21:38:27 GMT  
 Last-Modified: Sun, 26 May 2024 21:37:56 GMT  
 Onion-Location: https://www.nytimesn7cgmftshazwhfgzm37qxb44r64ytbb2dj3x62d2lljsciidy.onion/

2 / 99 requests | 177 kB / 477 kB transferred





2024

# Even as Violent Crime Drops, Lawlessness Rises as an Election Issue

In most U.S. cities, rates of homicide and violent assault are down from pandemic-era highs. But property crimes have risen, fueling voter anxiety.

7 MIN READ



Elements Console Sources Network Performance Memory Application Security

Filter  Invert  Hide data URLs  Hide extension URLs

All Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other  Blocked response cookies  Blocked requests

3rd-party requests

500 ms 1000 ms 1500 ms 2000 ms 2500 ms 3000 ms 3500 ms 4000 ms 4500 ms 5000 ms 5500 ms 6000 ms

Name	Headers	Preview	Response	Initiator	Timing	Cookies
<input checked="" type="checkbox"/> web-fonts.07e7b47f2f328d580b17efc8098...						
<input checked="" type="checkbox"/> global-f449cfd9976ad673ef2b7ab5098b85...	X-Nyt-Mktg-Group, X-Nyt-Mktg-Group					
<input checked="" type="checkbox"/> style	2264947 public,max-age=31536000 gzip 1968 upgrade-insecure-requests;					

3 / 99 requests | 14.0 kB / 3.0 MB transferred

Last-Modified: Mon, 11 Mar 2024 20:03:25 GMT



MENU

# Show users what they need

with AI search that understands them

Get started

Request demo

Elements Console Sources Network Performance Memory Application Security

Filter  Invert  Hide data URLs  Hide extension URLs

All Fetch/XHR Doc CSS JS Font Img Media Manifest WS Wasm Other  Blocked response cookies  Blocked requests

3rd-party requests

10000 ms 20000 ms 30000 ms 40000 ms 50000 ms 60000 ms 70000 ms 80000 ms 90000 ms 100000 ms 110000 ms

Name Headers Preview Response Initiator Timing Cookies

www.algolia.com

core?d=1&embedId=akbbnskvekg7&eld=ak...

chat?d=1&region=US&driftEnableLog=false...

Request URL:  
Request Method:  
Status Code:  
Remote Address:  
Referrer Policy:

Response Headers

Age:  
Cache-Control:  
Cf-Cache-Status:  
Cf-Ray:  
Content-Encoding:  
Content-Security-Policy:

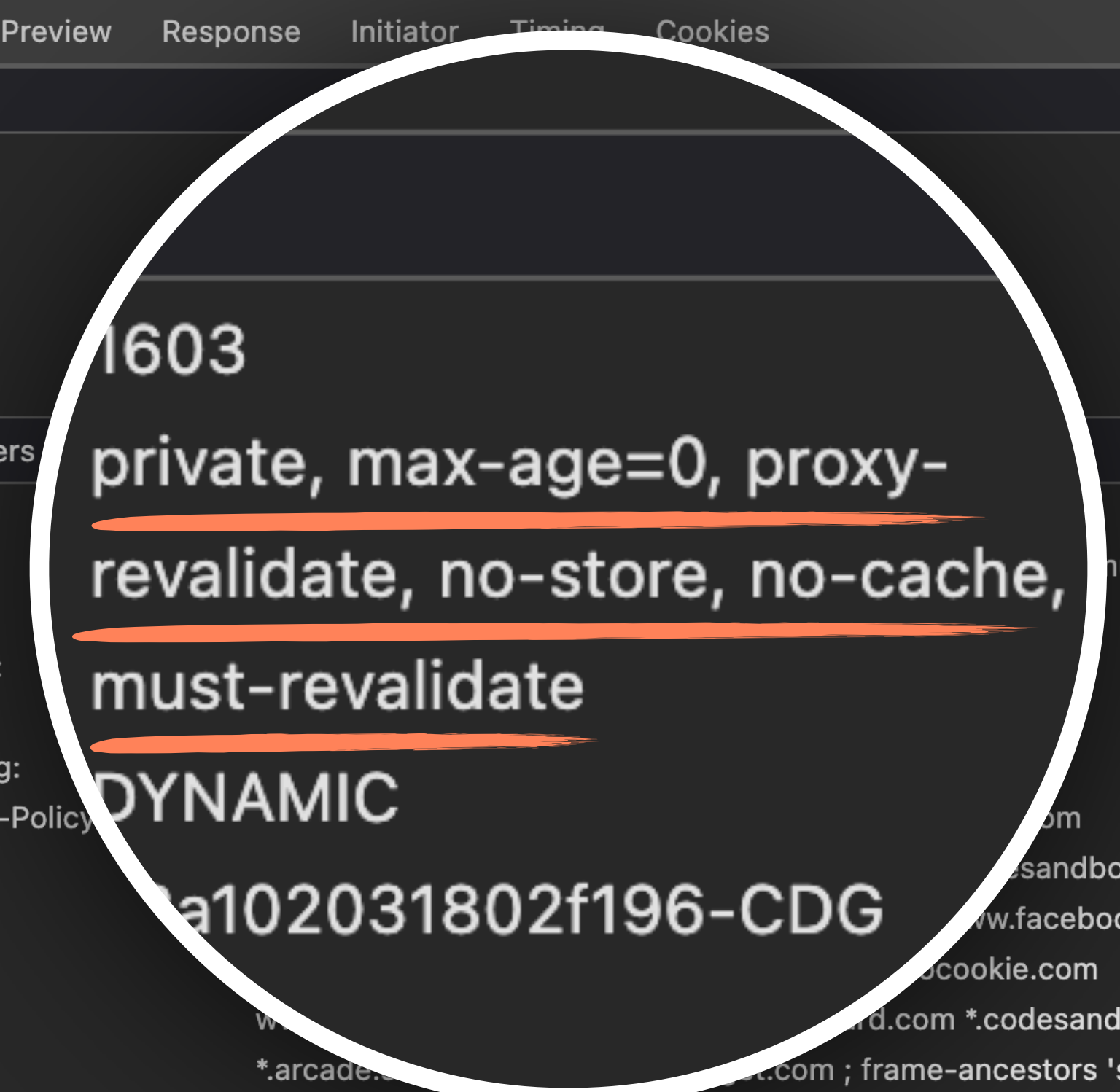
1603

private, max-age=0, proxy-revalidate, no-store, no-cache, must-revalidate

DYNAMIC

102031802f196-CDG

3 / 276 requests | 45.6 kB / 1.2 MB transferred



## Algolia named leader

Figure 1: Magic Quadrant for Search and Product Discovery

CHALLENGERS LEADERS

# Show users what they need

with AI search that understands them

Get started

Request demo



## Algolia named leader

Figure 1: Magic Quadrant for Search and Product Discovery



Elements Console Sources Network Performance Memory Application Security

Filter  Invert  Hide data URLs  Hide extension URLs

All Fetch/XHR Doc **CSS** JS Font Img Media Manifest WS Wasm Other  Blocked response cookies  Blocked requests


3rd-party requests

10000 ms 20000 ms 30000 ms 40000 ms 50000 ms 60000 ms 70000 ms 80000 ms 90000 ms 100000 ms 110000 ms


Name	Headers	Preview	Response	Initiator	Timing
<input checked="" type="checkbox"/> 9eb260016674a175.css	<p>General</p> <p>Request URL: .../9eb260016674a175.css</p> <p>Request Method:</p> <p>Status Code:</p> <p>Remote Address:</p> <p>Referrer Policy:</p> <p>Response Headers</p> <p>Access-Control-Allow-Origin: *</p> <p>Age: 813349</p> <p>Cache-Control: public, max-age=31536000, immutable, minify</p> <p>Cf-Bgj:</p> <p>Cf-Cache-Status: HIT</p> <p>Cf-Ray: ...</p> <p>Content-Disposition:</p> <p>Content-Encoding: ...</p> <p>Content-Security-Policy: ...</p>				


11 / 276 requests | 23.1 kB / 1.2 MB transferred





 04046bfa139e01b8.css


 9eb260016674a175.css


 8.ab226b4a.chunk.css


 16.22abfce0.chunk.css


 8.ab226b4a.chunk.css


 16.22abfce0.chunk.css

 39.eeb001f3.chunk.css

 27.b5e8f5e1.chunk.css

 25.c695453b.chunk.css

 3.07aa08a5.chunk.css

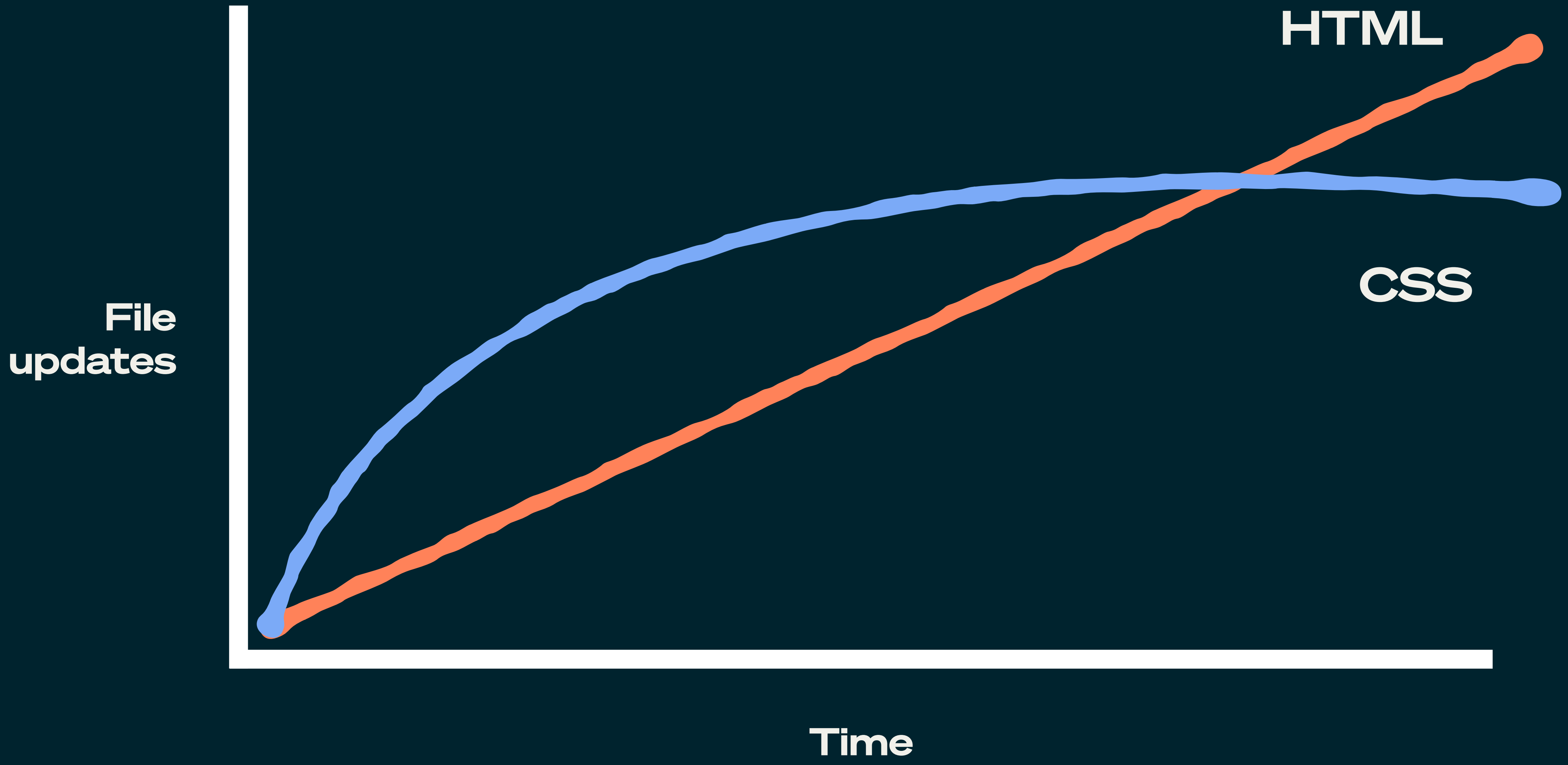
 1.196b564b.chunk.css

 28.812d5a7c.chunk.css

**You can cache  
inline styles.**

**But that's **pointless.****

**CSS assets  
last longer.**





A close-up, low-angle shot of a man with a shaved head and glasses, wearing a dark suit jacket over a light blue shirt. He is looking down and to the left, with his right hand resting against his chin in a thoughtful or listening pose. The background is dark and out of focus, suggesting an office or meeting room setting.
















**WELL, IT'S JUST ALL VERY  
TECHNICAL AND BORING.**



**Assets freshness  
speaks volumes on  
where to spend focus.**

**A healthy codebase  
grants you focus.**

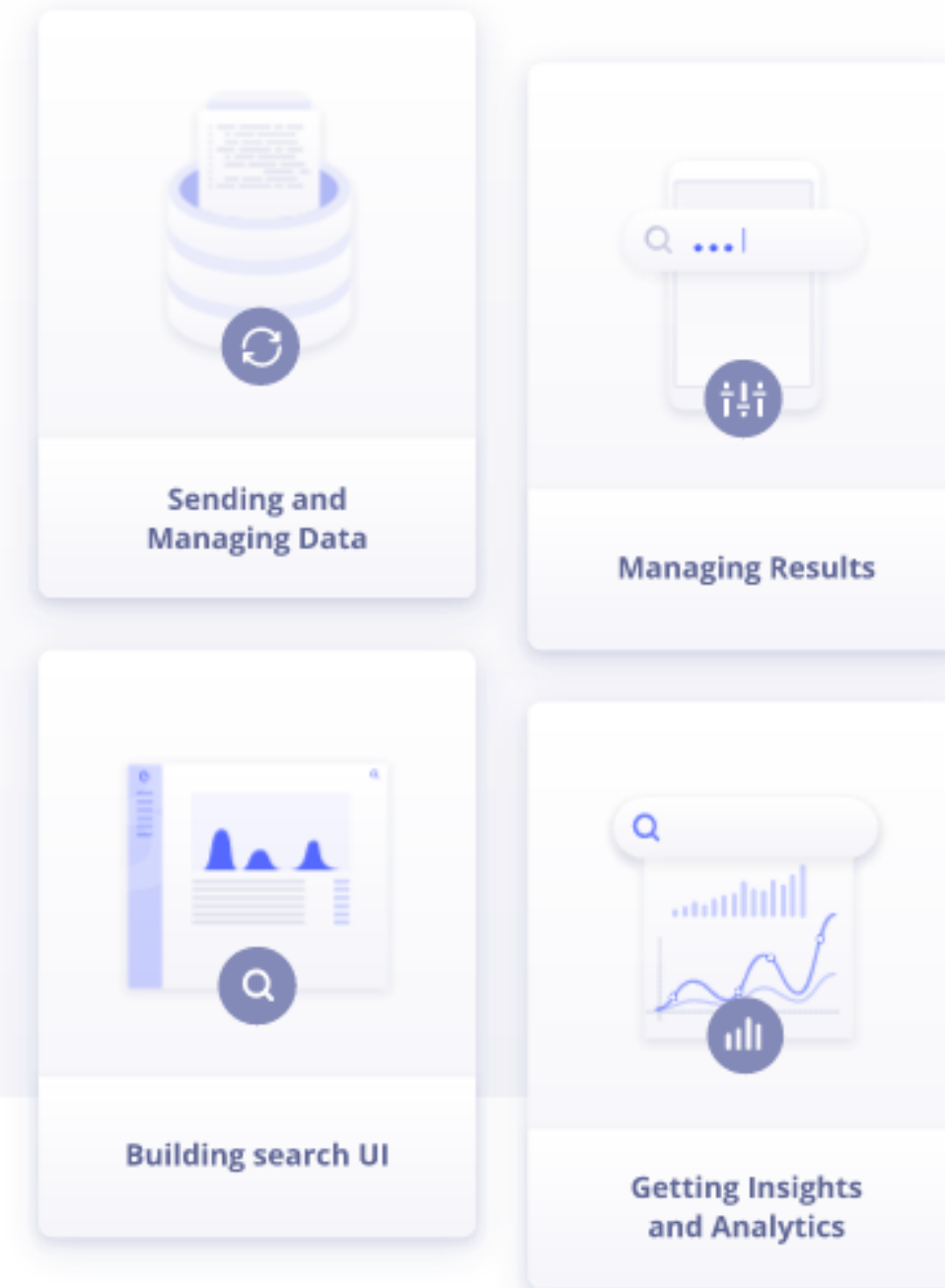
EXPAND ALL

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-  [Getting started](#)
-  [Sending and managing data](#)
-  [Managing results](#)
-  [Building Search UI](#)
-  [Sending events](#)
-  [Search analytics](#)
-  [Personalization](#)
-  [A/B testing](#)
-  [Algolia Recommend](#)
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-  [Solutions](#)

# Documentation

## Interactive tutorial

Get a full overview of the basic settings that will take your search to the next level.

[⚡ Try interactive tutorial](#)[▶ Algolia in 3 steps](#)

## What is Algolia?

Algolia is a hosted search engine, offering full-text, numerical, and faceted search, capable of delivering real-time results from the first keystroke. Algolia's powerful API lets you quickly and seamlessly implement search within your websites and mobile applications. Our search API powers billions of queries for thousands of companies every month, delivering relevant results in under 100ms anywhere in the world.


















**Start building for free today**

No credit card required [↗](#)



EXPAND ALL

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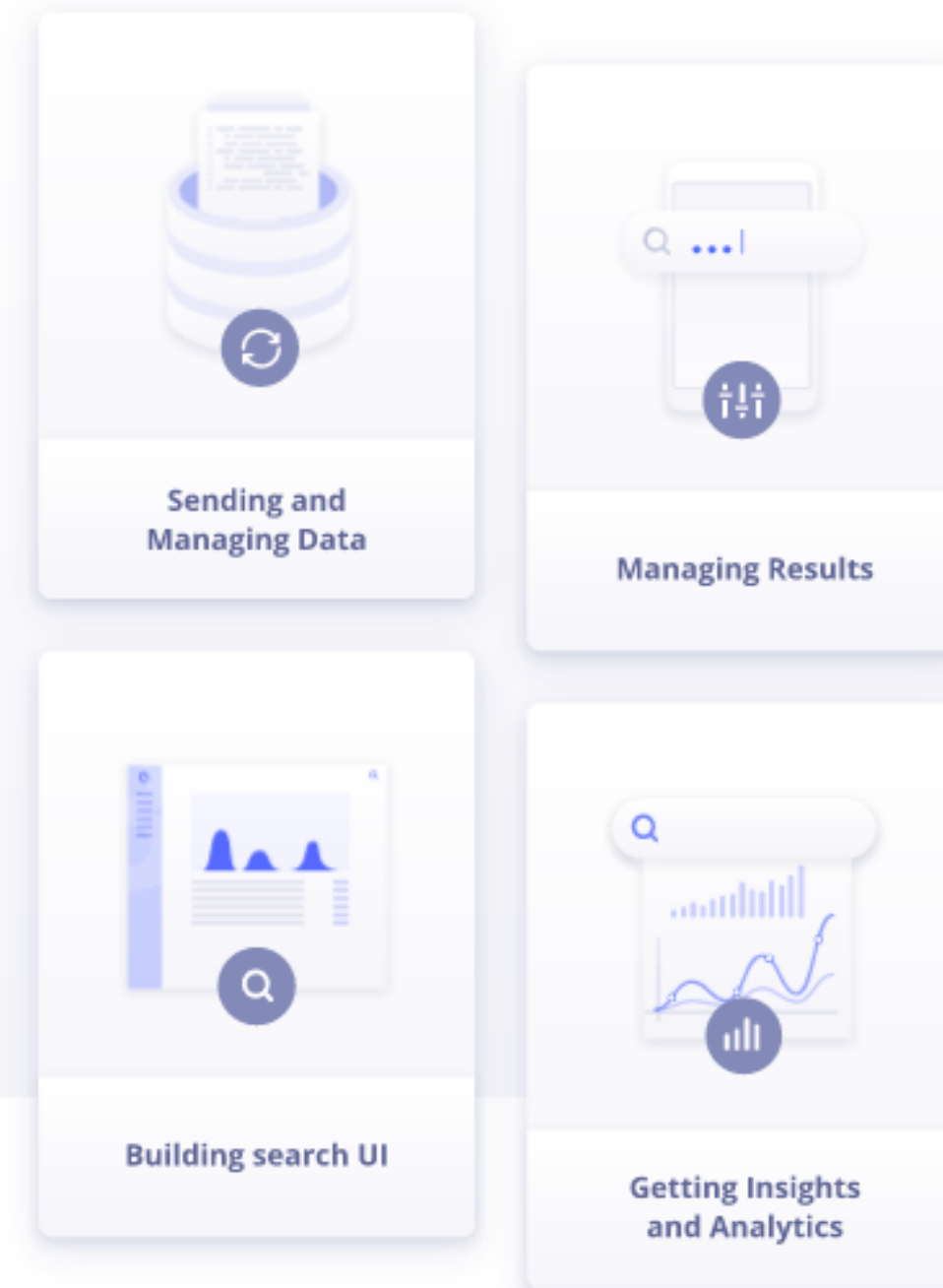
# Documentation

## Interactive tutorial

Get a full overview of the basic settings that will take your search to the next level.

[⚡ Try interactive tutorial](#)

[▶ Algolia in 3 steps](#)



## What is Algolia?

Algolia is a hosted search engine, offering full-text, numerical, and faceted search, capable of delivering real-time results from the first keystroke. Algolia's powerful API lets you quickly and seamlessly implement search within your websites and mobile applications. Our search API powers billions of queries for thousands of companies every month, delivering relevant results in under 100ms anywhere in the world.



**Start building for free today**

No credit card required [↗](#)





*I'm done. GOODBYE.*



**CSS compositions  
always have to be  
mentally compiled.**

```
<div class="flex mb-16 md:mr-0 mr-24">
  <a
    class="text-color-inherit hover:underline"
    href="/doc/guides/security/api-keys/"
  >
    API keys
  </a>
</div>
<div class="flex mb-16 md:mr-0 mr-24">
  <a
    class="text-color-inherit hover:underline"
    href="/doc/guides/security/security-best-practices/"
  >
    Security best practices
  </a>
</div>
```

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Vercel Ship 📦 ran May 23. Check out the announcements. Watch the Keynote >

# The React Framework for the Web

Used by some of the world's largest companies, Next.js enables you to create high-quality web applications with the power of React components.

Get Started Learn Next.js

~ npx create-next-app@latest

What's in Next.js? Everything you need to build great products on the web.

# The Intuitive Vue Framework

Nuxt is an open source framework that makes web development intuitive and powerful. Create performant and production-grade full-stack web apps and websites with confidence.

Get Started What is Nuxt?

Trusted by the best front-end teams

GitHub OpenAI NASA Google fedora GitLab upwork

## Create small, reusable CSS that scales as your website grows.

Atomizer is an unopinionated CSS utility library for modern websites. Just add classes like `D(f)` and `Fz(1.5rem)` to your markup to efficiently style your website.

Get Started Try it now!

Incoming transmission received. [Laravel Reverb](#) is now available!

Laravel Forge Vapor Ecosystem News Partners Careers DOCUMENTATION

# The PHP Framework for Web Artisans

Laravel is a web application framework with expressive, elegant syntax. We've already laid the foundation — freeing you to create without sweating the small things.

GET STARTED WATCH LARACASTS

Write code for the joy of it.

Laravel values beauty. We love clean code just as much as you do. Simple, elegant syntax puts amazing functionality at your fingertips. Every feature has been thoughtfully considered to

```
<?php
Route::get('/users/{user}', function (User $user) {
    return $user;
});

Route::post('/users', function (CreateUserRequest $request) {
    $user = User::create($request->validated());
});
```

## Meet Atomizer!

Atomizer generates a simple static CSS stylesheet from the Atomizer classes you define in your project or predeclared configured styles - it's up to you.

Atomizer is not opinionated, brings no CSS of its own and integrates nicely with your favorite task runner.

## Testimonials

We released Atomizer almost 10 years ago and to this day it is used on massive web.

Truly pioneering work that deserves an enormous amount of credit — Tailwind.

Initially I did not like the concept, I had experience in using Bootstrap UI Library.

Atomizer is a v solves lots CSS.

# UnoCSS Instant On-demand Atomic CSS Engine

Customizable · Powerful · Fast · Joyful

Getting Started Interactive Docs Playground

- Fully Customizable**  
No core utilities, all functionalities are provided via presets. [Getting Started](#) →
- Instant**  
No parsing, no AST, no scanning. It's 5x faster than Windi CSS or Tailwind CSS JIT.
- Lightweight**  
Zero deps and browser friendly: ~6kb min+brotil
- Rich Integrations**  
First class support of Vite, Webpack, PostCSS, CLI, VS Code, ESLint, etc. [Learn more](#) →
- Shortcuts**  
Aliasing or grouping utilities, dynamically. [Configuration and usage](#) →
- Attributify Mode**  
Group utilities in attributes. [@unocss/preset-attributify](#) →
- Pure CSS Icons**  
Use any icon as a single class. [@unocss/preset-icons](#) →
- Variant Groups**  
Shorthand for group utils with common prefixes. [@unocss/transformer-variant-group](#) →
- CSS Directives**  
Reuse utils in CSS with @apply directive. [@unocss/transformer-directives](#) →

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# Compress the complexity of modern web apps.

Learn just what you need to get started, then keep leveling up as you go. **Ruby on Rails scales from HELLO WORLD to IPO.**

Rails 7.1.3.3 — released May 17, 2024

Quick search... ⌘K

Documentation Components Templates Screenscasts Playground Resources Community

## Get started with Tailwind CSS

Tailwind CSS works by scanning all of your HTML files, JavaScript components, and any other templates for class names, generating the corresponding styles and then writing them to a static CSS file. It's fast, flexible, and reliable — with zero-runtime.

Installation Tailwind CLI Using PostCSS Framework Guides Play CDN

Getting Started Installation Editor Setup Using with Preprocessors Optimizing for Production Browser Support Upgrade Guide

Core Concepts

- Install Tailwind CSS**  
Install 'tailwindcss' via npm, and create your 'tailwind.config.js' file.
- Configure your template paths**  
Add the paths to all of your template files in your 'tailwind.config.js' file.
- Add the Tailwind directives to your CSS**  
Add the '@tailwind' directives for each of Tailwind's layers to your main CSS file.

```
tailwind.config.js
/** @type {import('tailwindcss').Config} */
module.exports = {
  content: ['./src/**/*.html', './src/**/*.js'],
  theme: {
    extend: {},
  },
  plugins: [],
}

src/input.css
@tailwind base;
@tailwind components;
@tailwind utilities;
```

**Well-crafted  
systems  
liberate you.**

**Well-crafted  
*systems*  
liberate you.**

**That was intense.**



**Constructive  
criticism is  
necessary.**



**Your brain rewards you for classifying new information into existing buckets.**

**Looking for similarities is lower energy than understanding new differences.**



**Matthias Verraes | Software consultant, curator of DDD Europe**



**Proclaiming that the new idea is the same as the old idea gives you permission not to investigate it deeply, stick to the existing reality where you are an expert in the old idea, and the new ones are merely repackaging of your insight.**



**Matthias Verraes | Software consultant, curator of DDD Europe**



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**Matthias Verraes | Software consultant, curator of DDD Europe**



**There's such a firehose of information that keeping up with even a single topic is impossible. We should be forgiven for not knowing and understanding and keeping up with everything, even if our job is knowing and understanding and keeping up with everything.**



**Matthias Verraes | Software consultant, curator of DDD Europe**



**But let's try to make a habit of this.**

**When you feel “oh I get it, it's just like...”, then follow up with “so what makes the new thing different from the old thing?”**



**Matthias Verraes | Software consultant, curator of DDD Europe**



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**Atomic CSS isn't a  
one-size-fits-all.**



**And sometimes,  
problems don't exist.**

A man with a beard and mustache, wearing a bright red quilted jacket, is shown from the chest up. He has his hands pressed against his face, covering his eyes and nose, suggesting a state of distress or frustration. The background is a solid, bright yellow color. The text "This sucks." is overlaid in the center of the image in a bold, white, sans-serif font.

**This sucks.**





**This is not for me.**

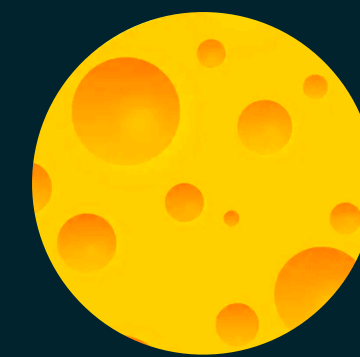
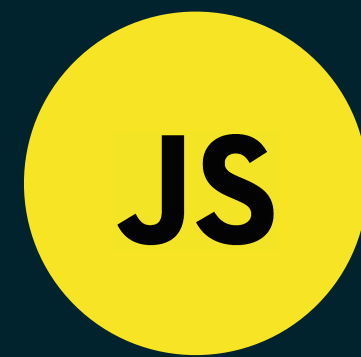
A man with a beard and closed eyes, wearing an orange jacket, against a yellow background. The text is overlaid on the image.

**This is not for me.**

**But it might, eventually.**

**Think ~~different~~  
critically.**





# Thank you!

[sarahdayan.dev](https://sarahdayan.dev)

[algolia.com](https://algolia.com)