

# Breaking news at 1000ms

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*@patrickhamann - Velocity EU - November 2014*

**theguardian.com**



# Snooping scandal exclusive

## Obama used Google and Facebook to spy on us

# the guardian

weekend edition



How to get a good night's sleep  
Family

10 best summer berry recipes  
Cook



Win tickets to the Womad festival

Saturday 08.06.13  
Published in London and Manchester  
guardian.co.uk  
£2.30



### US draws list of foreign cyber-t

Glenn Greenwald  
Ewen MacAskill  
Dan Roberts  
Spencer Ack

Pressure on government over secret intelligence snooping



# The whistleblower



## I can't allow the US government to destroy privacy and basic liberties

# the guardian

guardian.co.uk

- Edward Snowden, 29, emerges from hiding in Hong Kong
- IT contractor says his concerns were ignored and he had to go public

Glenn Greenwald and Ewen MacAskill Hong Kong  
Julian Borger

The whistleblower behind the most significant US intelligence leak in modern times broke cover last night, saying he had decided to leave his position as a National Security Agency (NSA) contractor because he believed its unconstrained collection of electronic intelligence was destroying civil liberties and creating the conditions for tyranny.

Edward Snowden, a 29-year-old IT administrator for defence contractor Booz Allen Hamilton, was speaking in Hong Kong after leaking a series of documents on the collection of telephone data on millions of Americans, the NSA's relationship with US internet providers and the Obama administration cyber-warfare policy.

"I can't allow the US government to destroy privacy, internet freedom and basic liberties," he said. "My sole motive is to inform the public as to that which is done in their name and that which is against them."

Snowden said he felt compelled to speak out because in his view the NSA computer system was harvesting a pattern of espionage that was

course of a normal person's career, you'd only see one or two of these instances," Snowden said. "I certainly had the authority to wiretap anyone - you, your accountant, a federal judge, even the president if I had a personal email."

He argued that NSA surveillance was not being effectively constrained by administration policy and would continue to grow as the technology improved.

Snowden warned that if there was no greater awareness of what US intelligence was doing and not much greater oversight the "surveillance state" would outrun the ability of the American people to control it. "And there will be nothing that we can do at that point to open up the door to be turnkey tyranny," he said.

He said he had no intention of remaining in Hong Kong and was planning to travel to Europe.

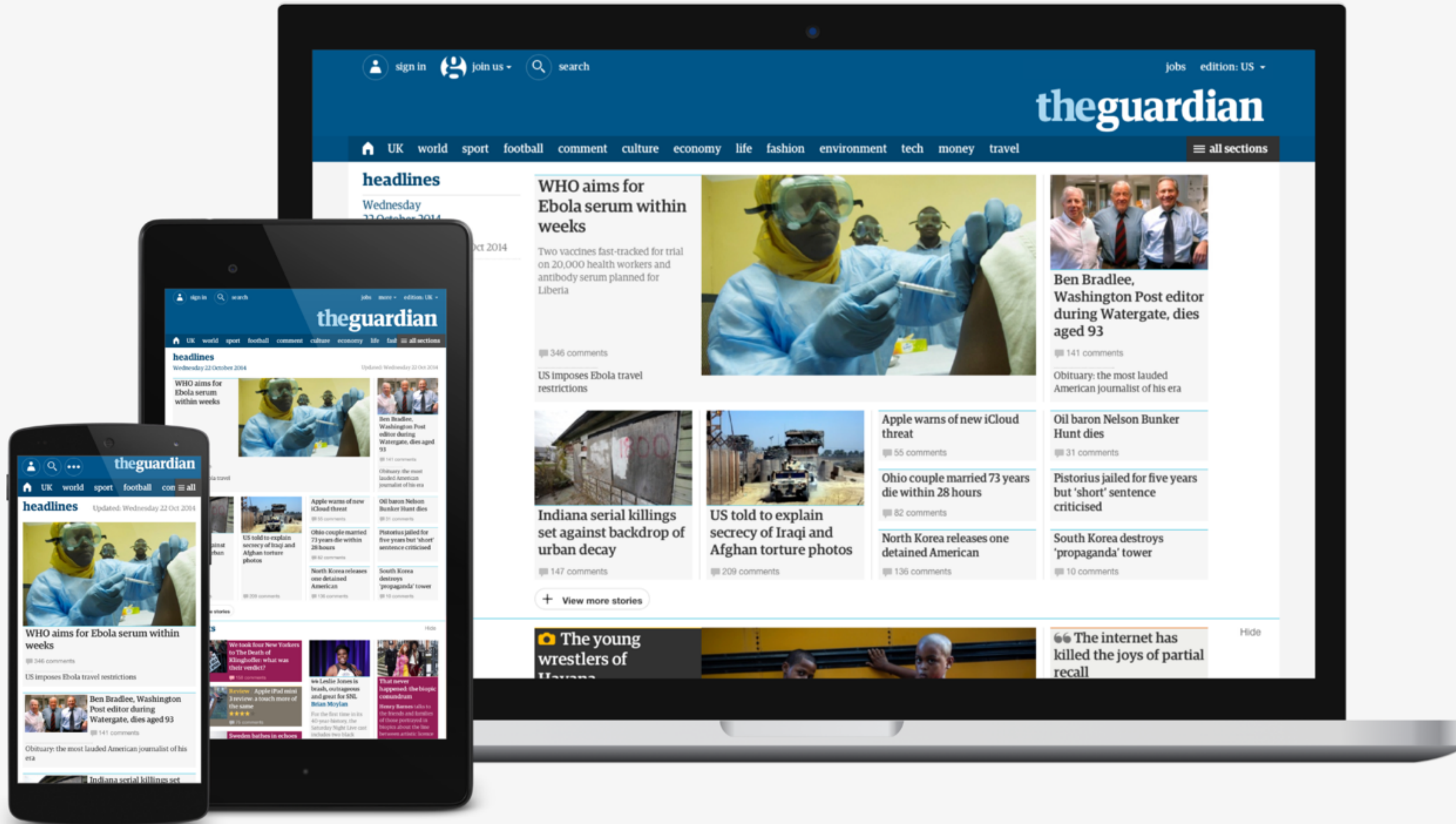


He also issued a warning to other nations that the US intelligence establishment does not view international treaties as binding constraints on its operations. "Even our agreements with other sovereign governments, we consider that to be a stipulation of policy rather than a stipulation of law," he said. "And because of that, a new leader will be elected, they'll say that because of the 'crisis', some new and unpredicted threat, we need more authority, we need more power."

He insisted his intention was not to harm US security and pointed out that he had access to a huge amount of information that could have crippled US intelligence collection, but had not given it. "I said that he had raised his concern, but they had been shrugged off. It had little choice but to

is one of America's biggest intelligence agencies and a significant part of the floor between the intelligence community and the private sector. Snowden's disclosure of the NSA's relationship with Booz Allen Hamilton, a major contractor, is a company employee of Booz Allen Hamilton who worked for Snowden.

The NSA's relationship with Booz Allen Hamilton, a major contractor, is a company employee of Booz Allen Hamilton who worked for Snowden. Snowden's disclosure of the NSA's relationship with Booz Allen Hamilton, a major contractor, is a company employee of Booz Allen Hamilton who worked for Snowden.



next.theguardian.com

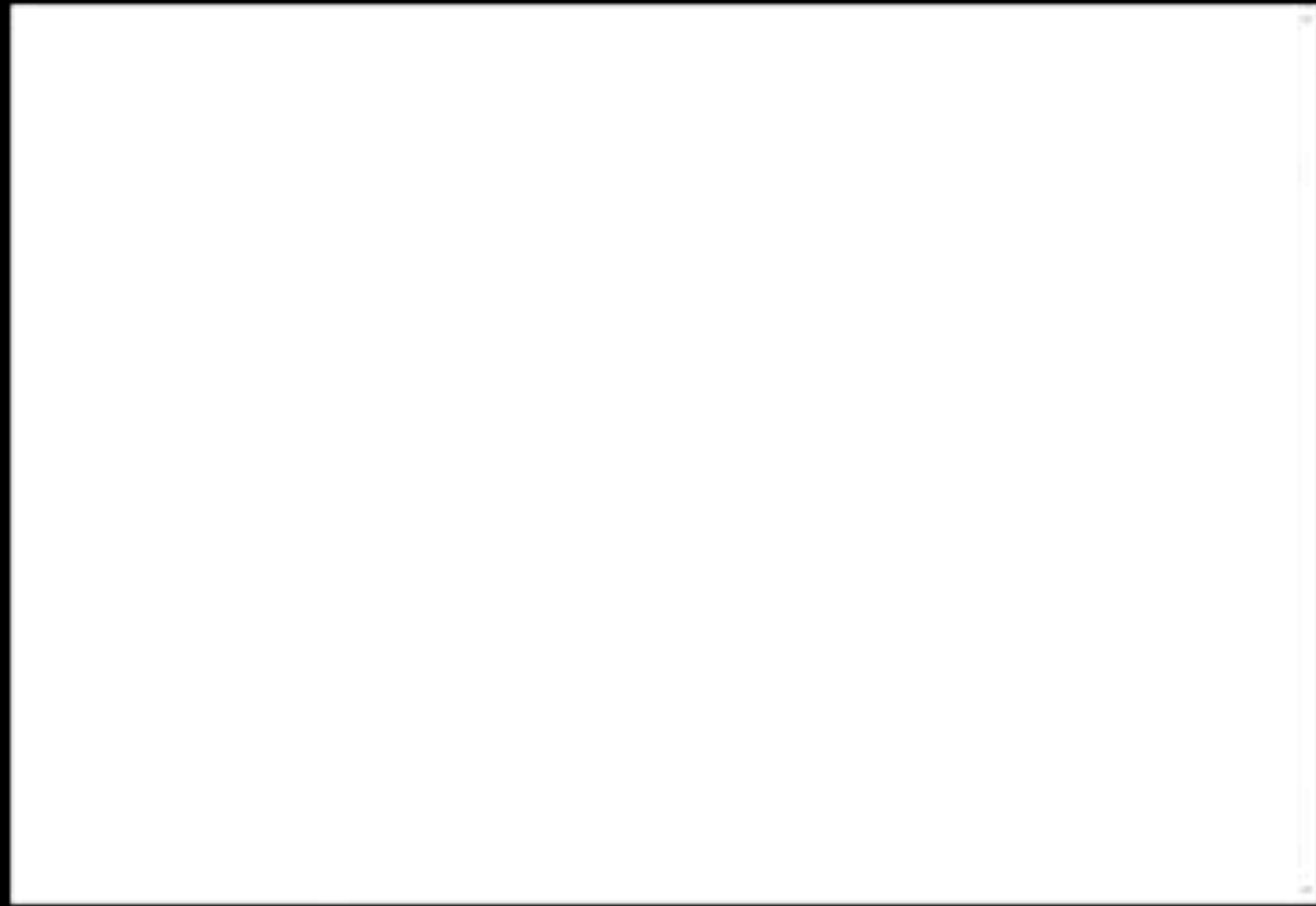


**110million**



**7000**

**Old**



**0.0**

**New**



**0.0**

**Old**



**0.0**

**New**







**0.0**



# Maslow's hierarchy of user needs

---

-  We surveyed **3000** users
-  About **17** key product drivers
-  They rated speed **2<sup>nd</sup>** most important
-  Only after easy to find content

# Time & user perception

---

Delay	User perception
0-100 ms	Instant
100-300 ms	Small perceptible delay
300-1000 ms	Machine is working
1,000+ ms	Likely mental context switch
10,000+ ms	Task is abandoned

Source: [Ilya Grigorik - High-Performance Browser Networking](#)



**Paul Irish** · 10 months ago

My answer to how fast is fast enough? **A Speed Index of under 1000.**

And for professionals that get there, they should shoot for delivering the **critical-path view (above the fold) in the first 14kb of the page.** That way you are guaranteed to be serving the initial view of the site within the first RTT.

And lastly I think most people's expectations for what's OK is currently way too lax. :)

**1000ms**



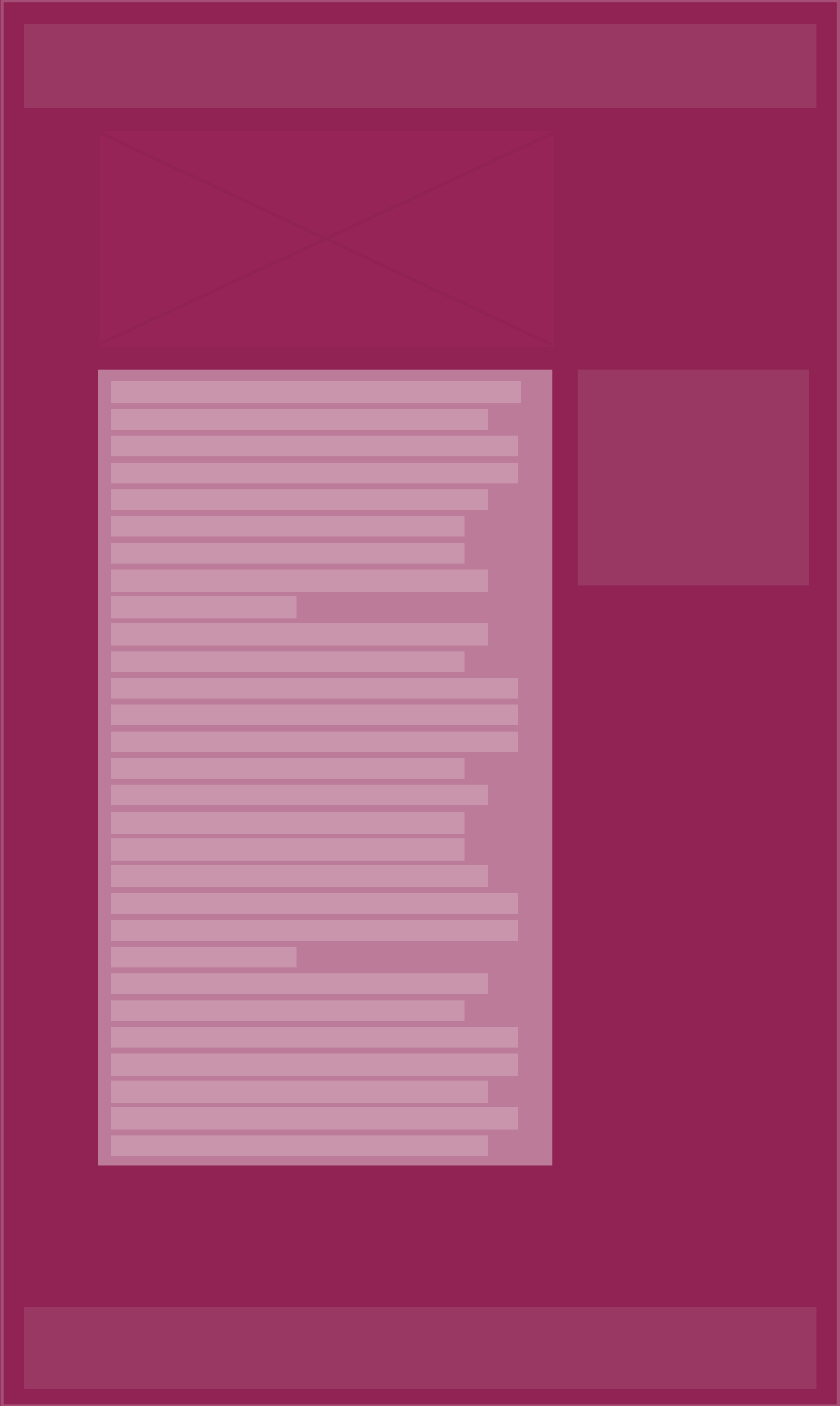


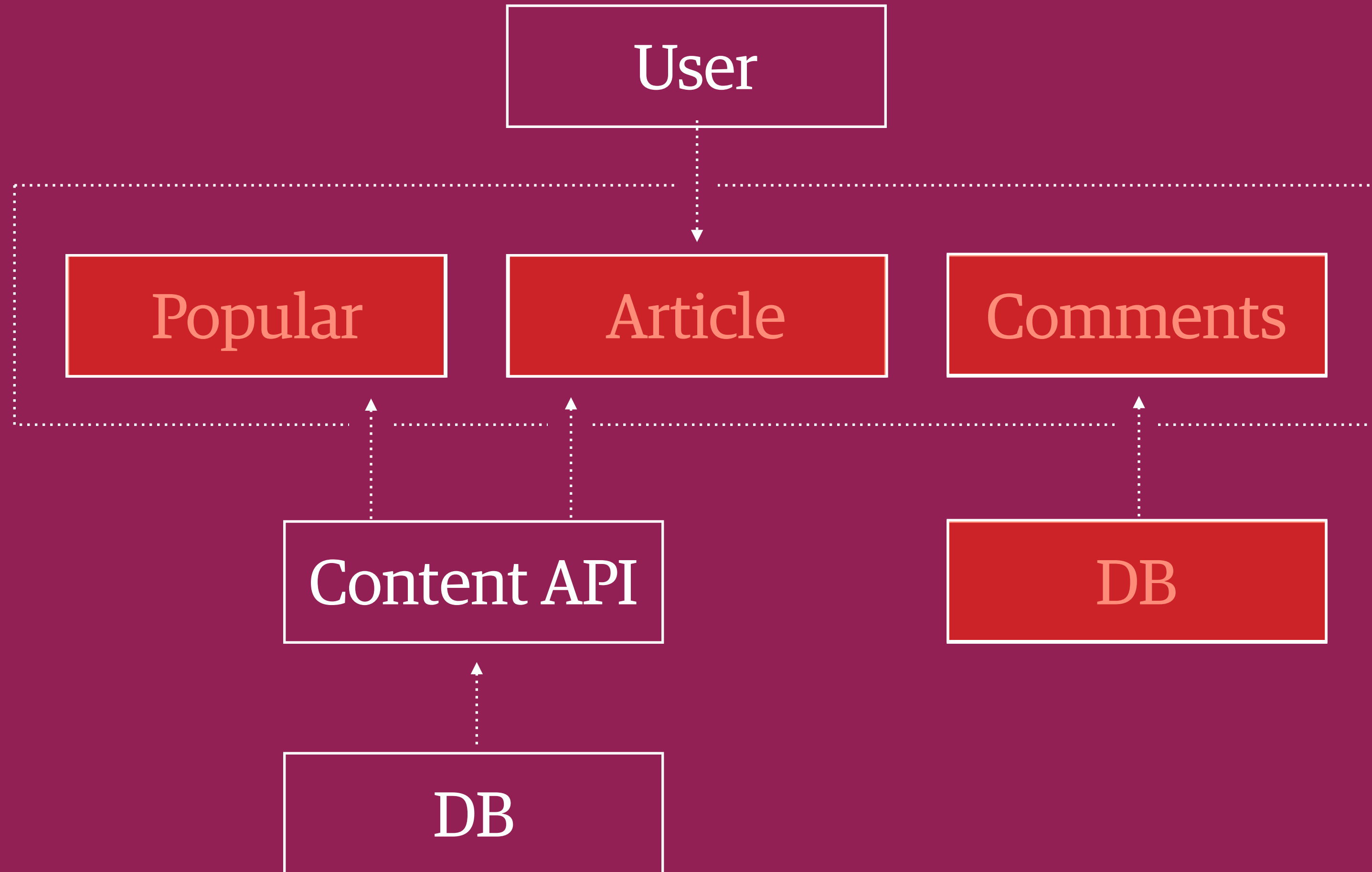
<https://flic.kr/p/eHsirY>

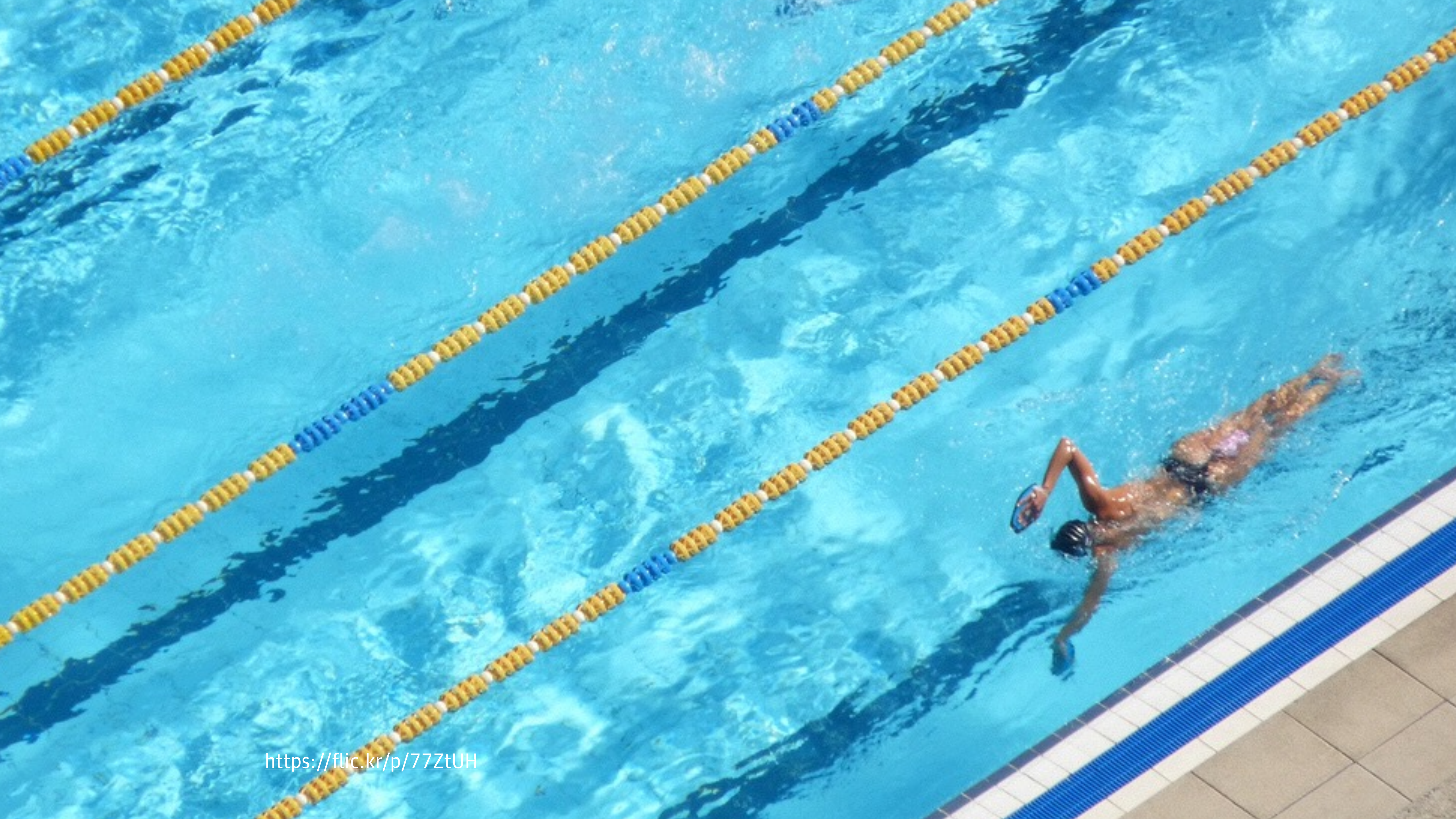
1. Core content should be delivered **first**
2. Core content should render within **1000ms**
3. Every feature must **fail gracefully**
4. Every request should be **measured**

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2. Core content should render within **1000ms**
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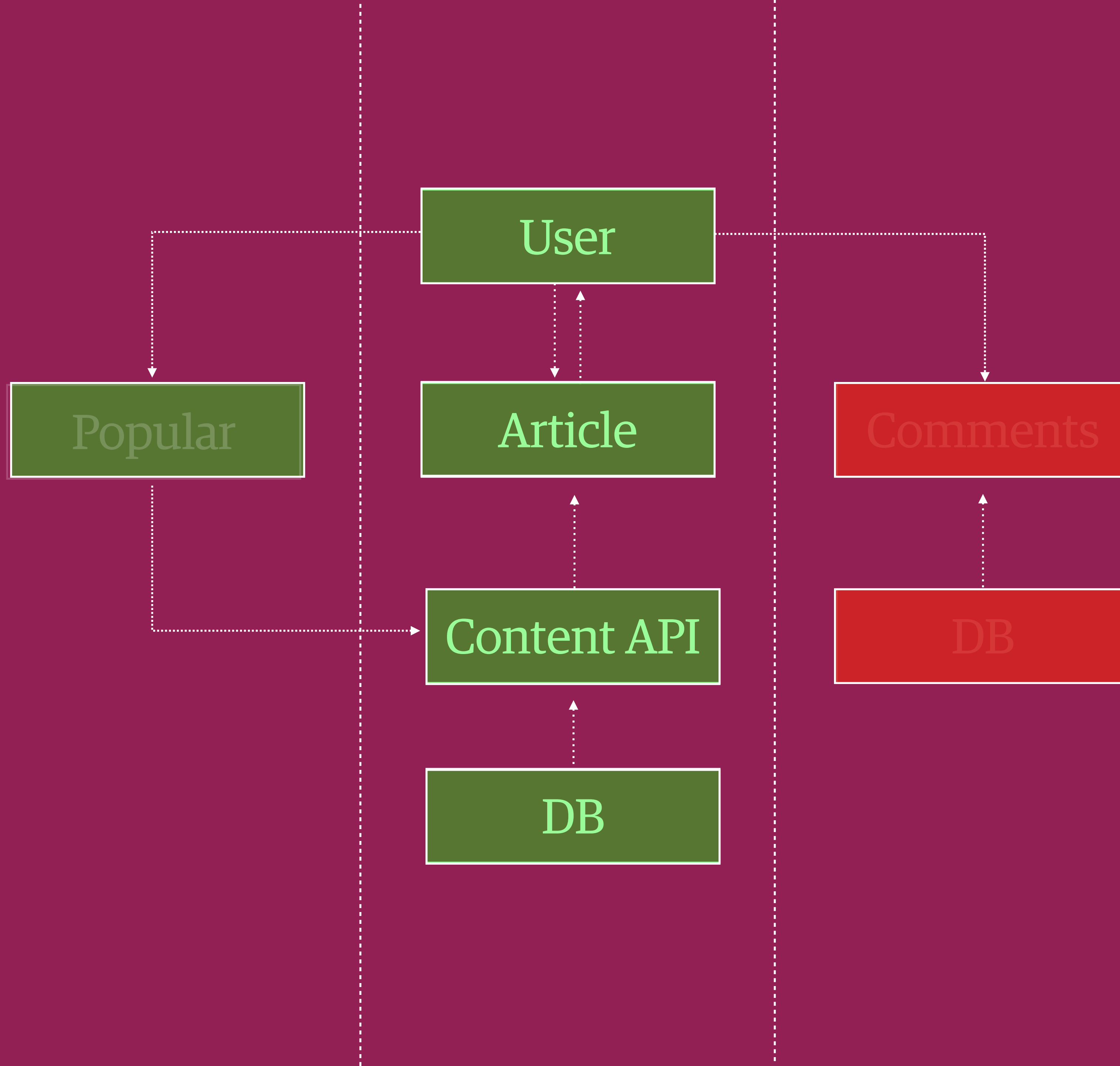




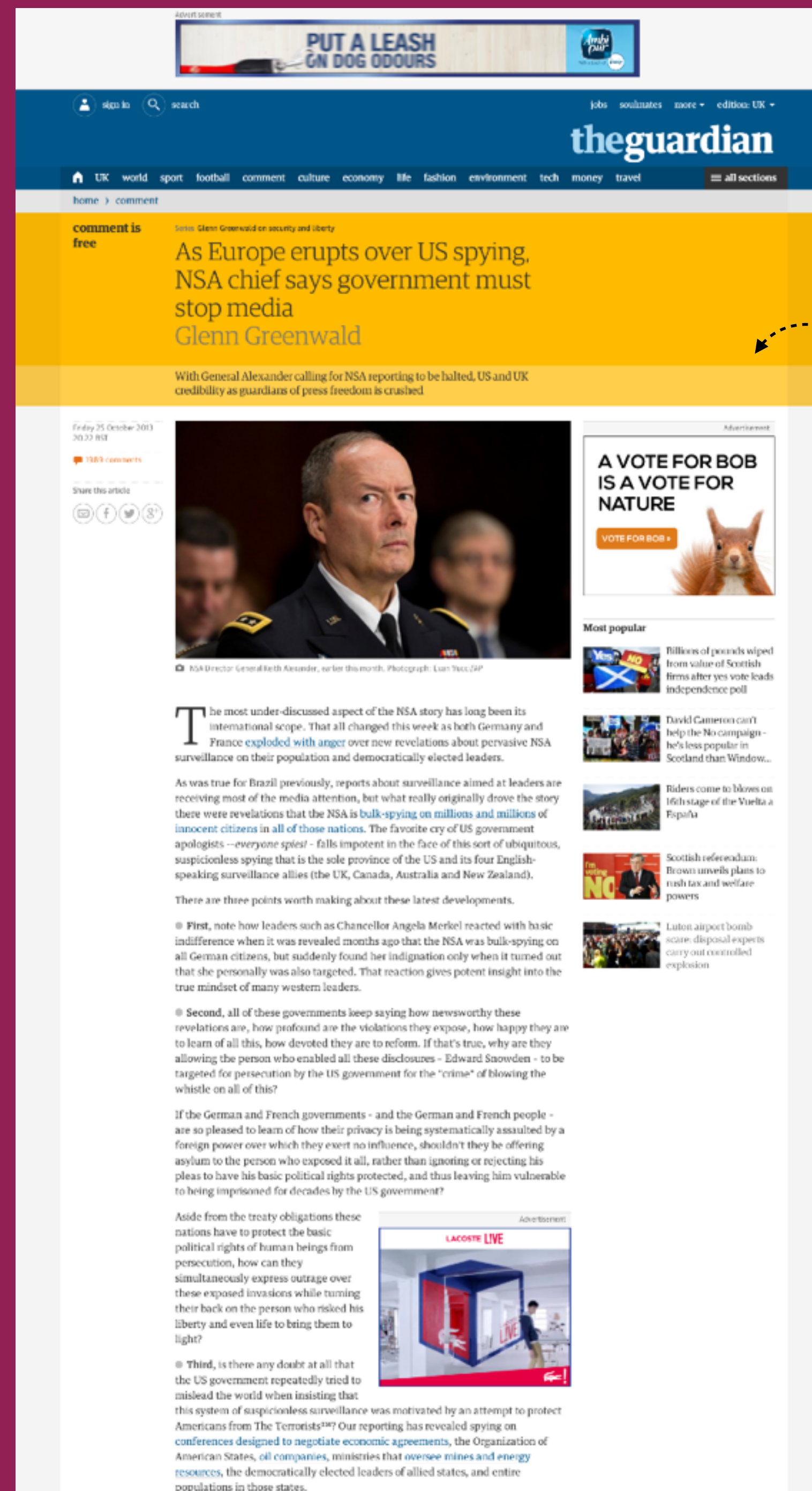
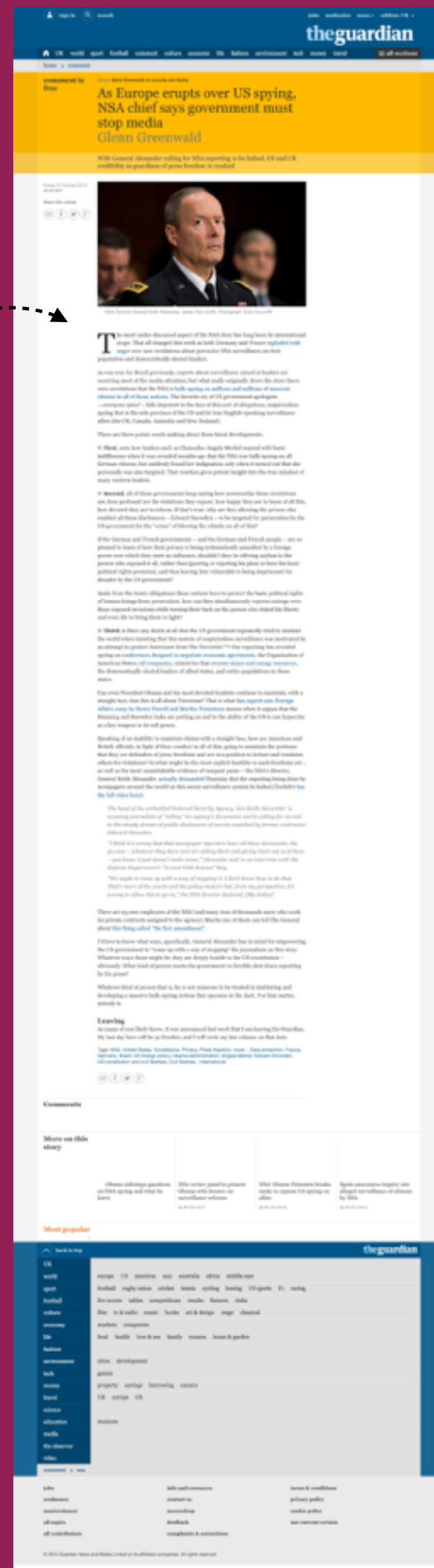




<https://flic.kr/p/77ZtUH>

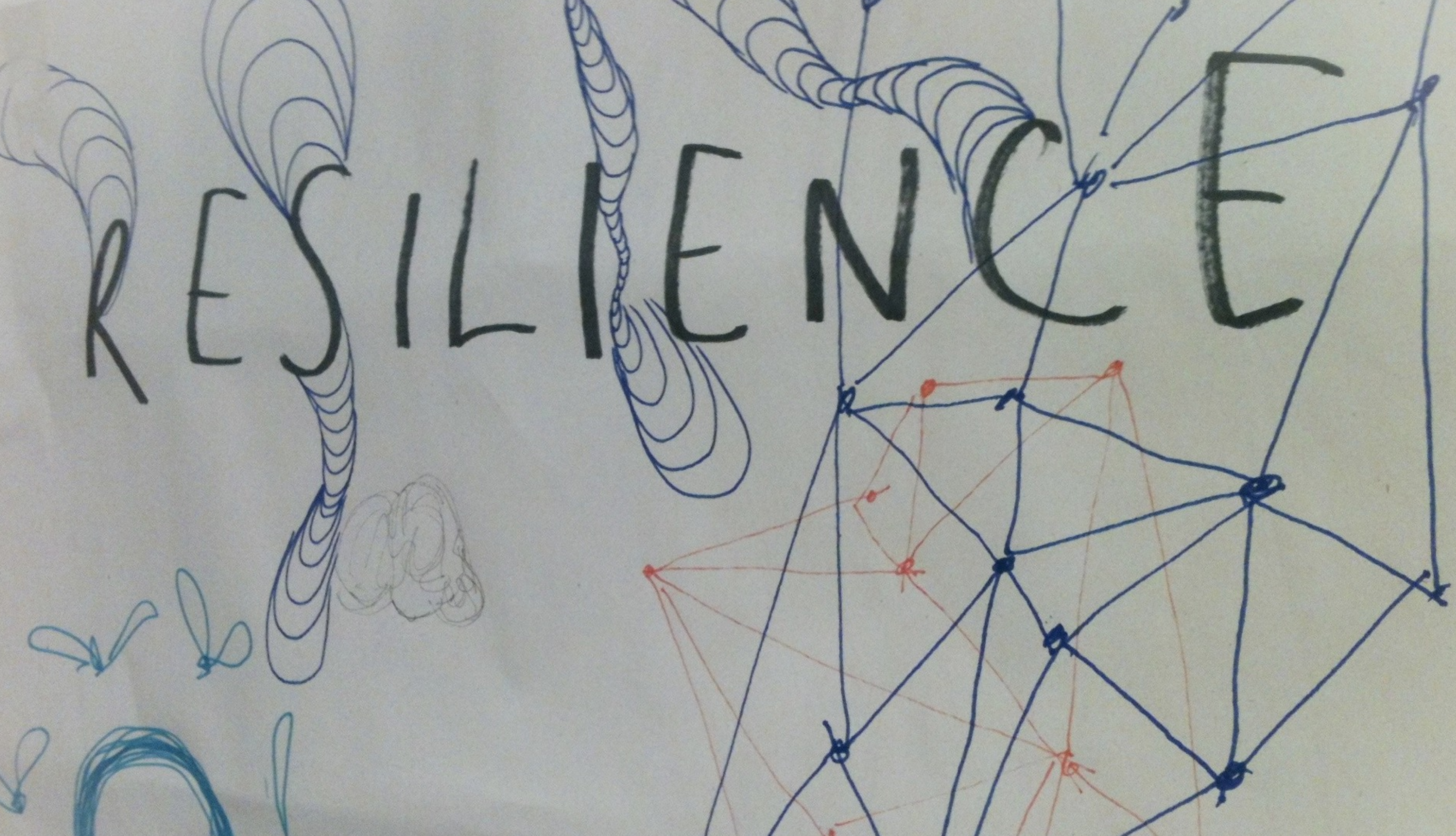


Initial page payload



Final progressively enhanced page

RESILIENCE



9. Progressive enhancement is about resilience as much as it is about inclusiveness

@bradwright

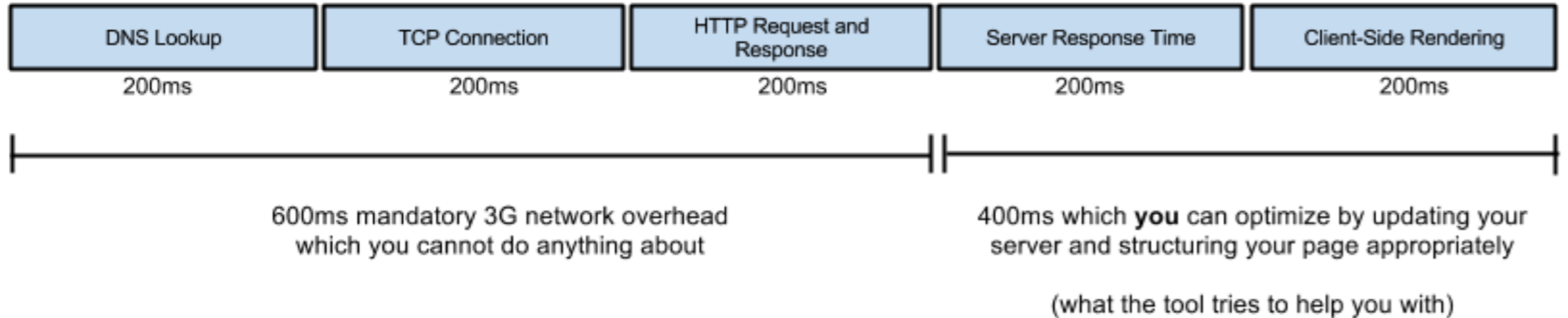
1. Core content should be delivered **first**
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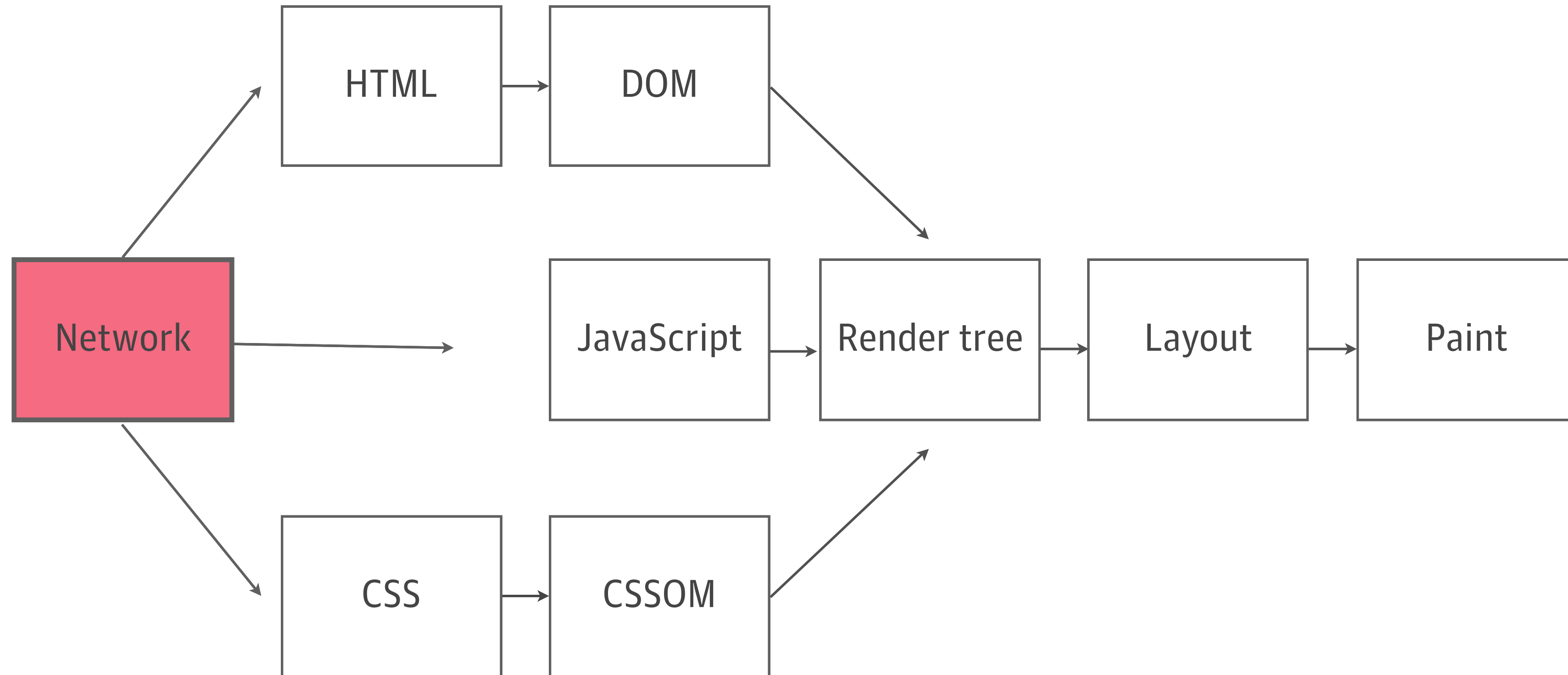


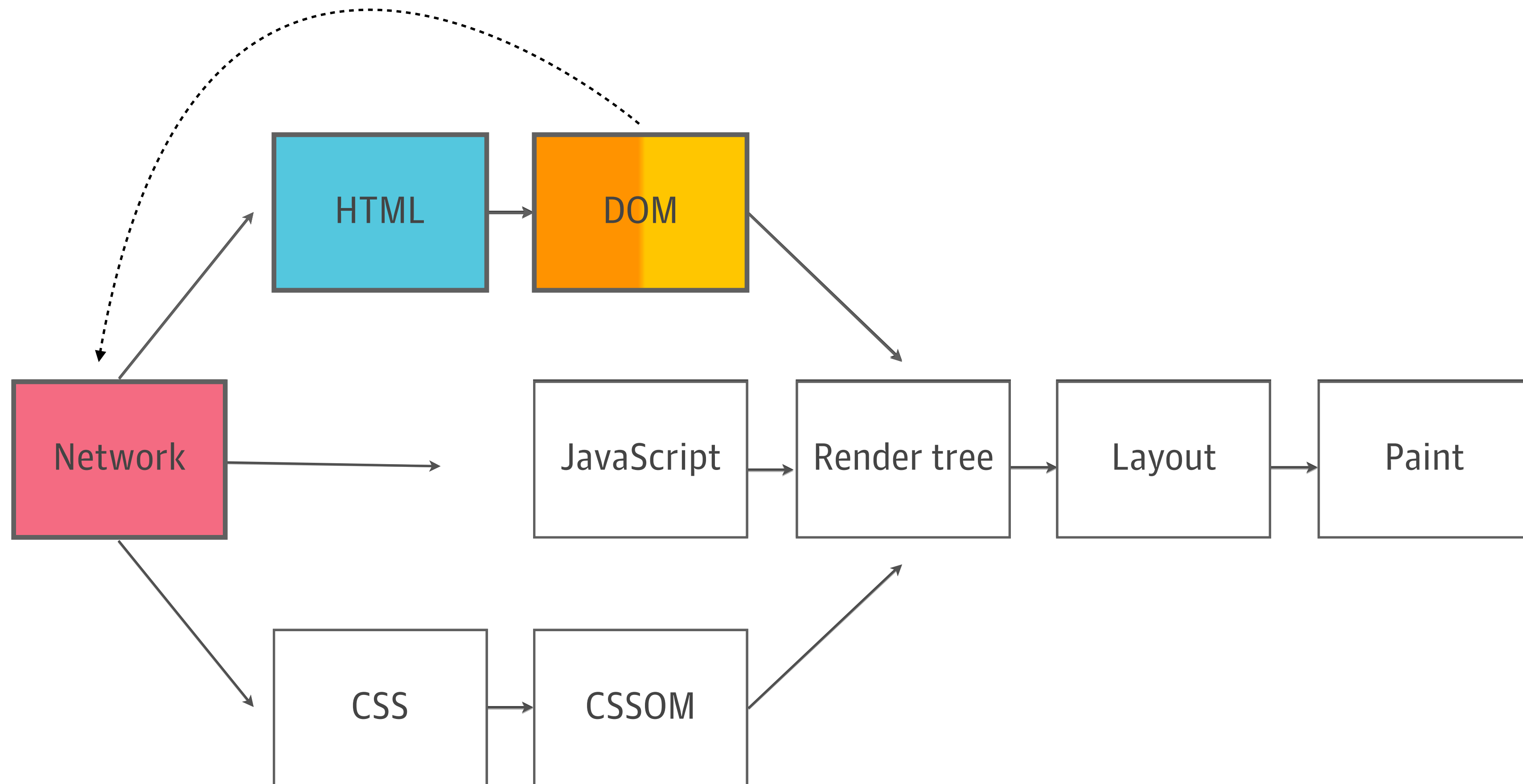
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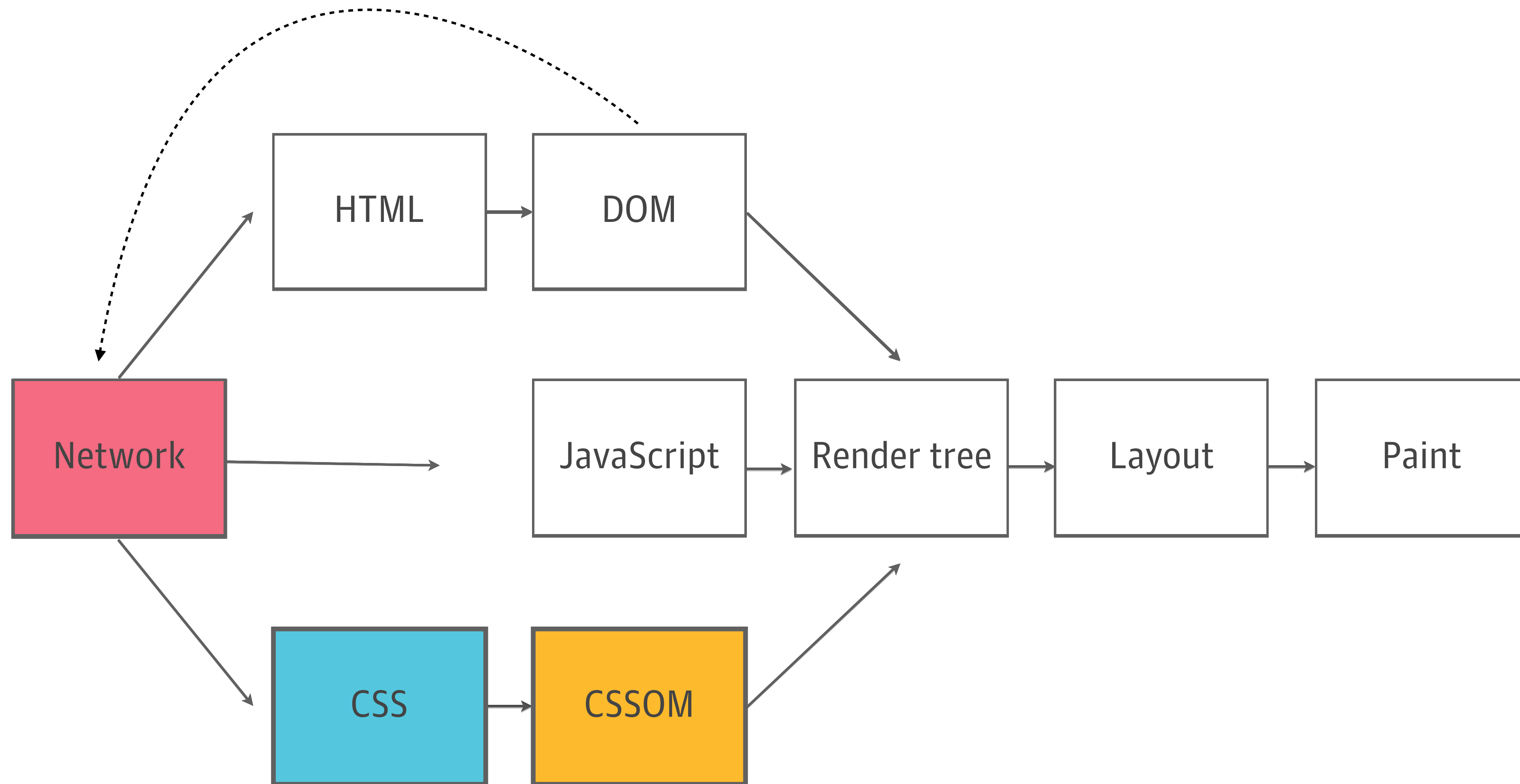
# Browser rendering 101

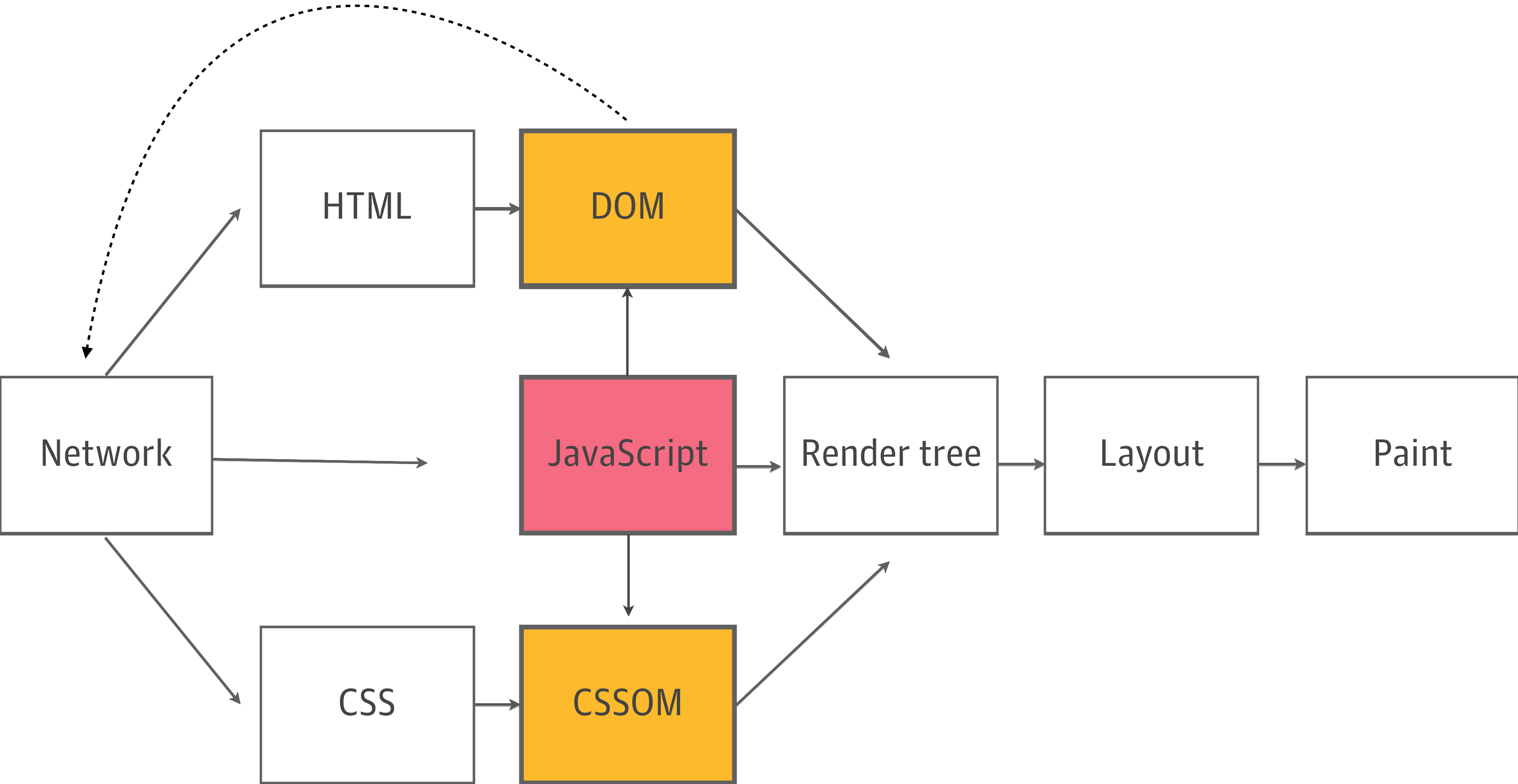
## Rendering a mobile page in 1 second

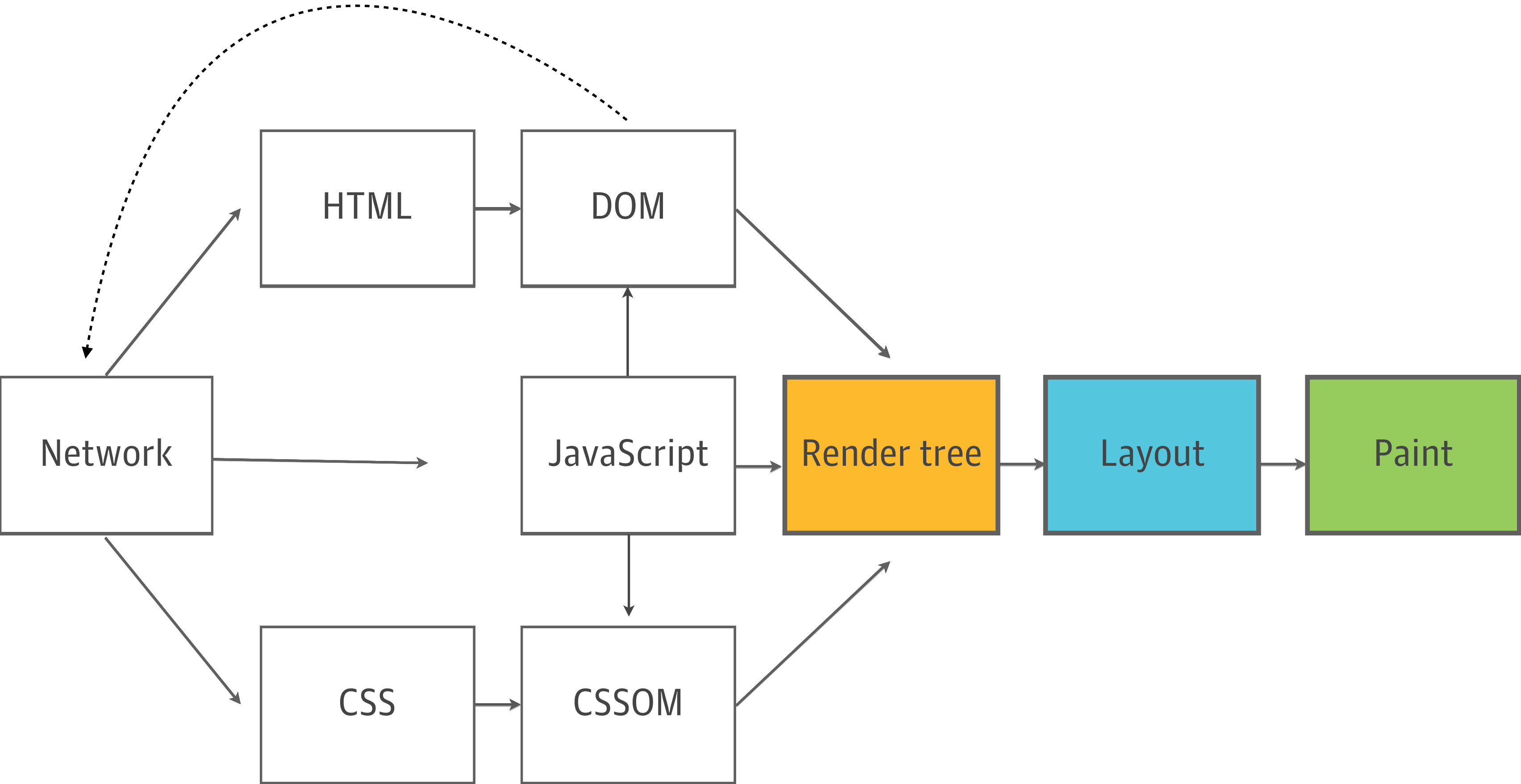


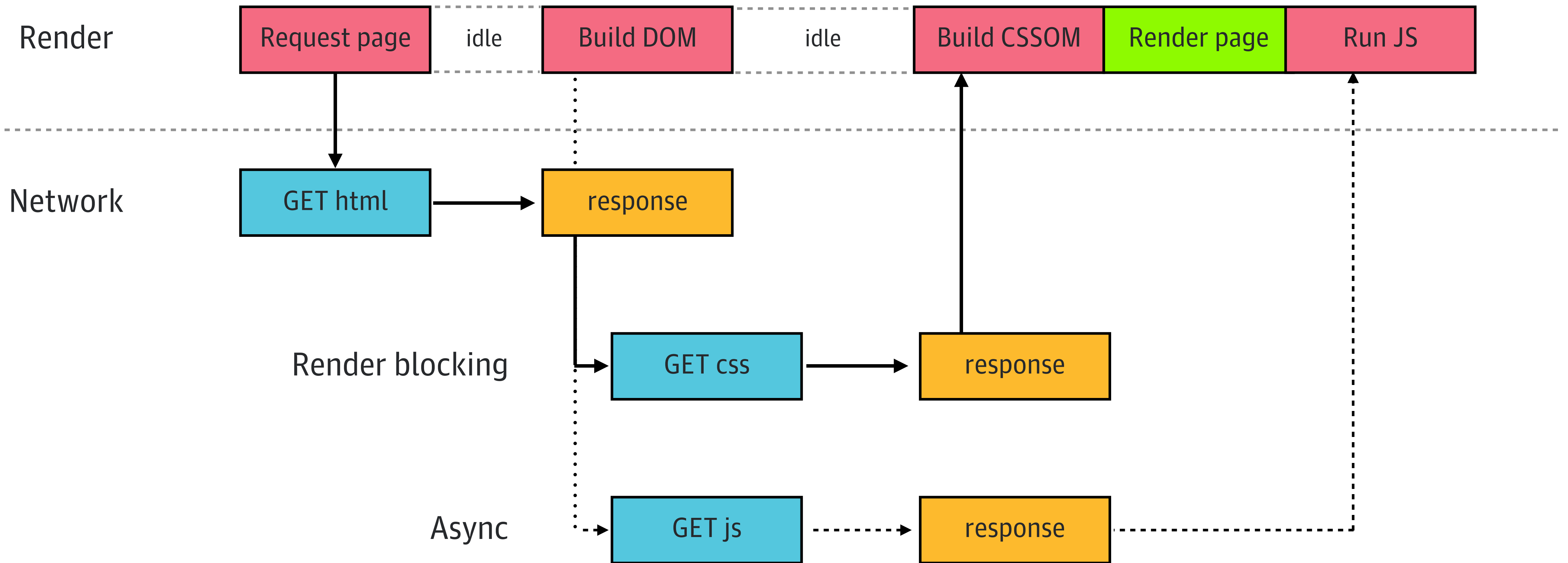






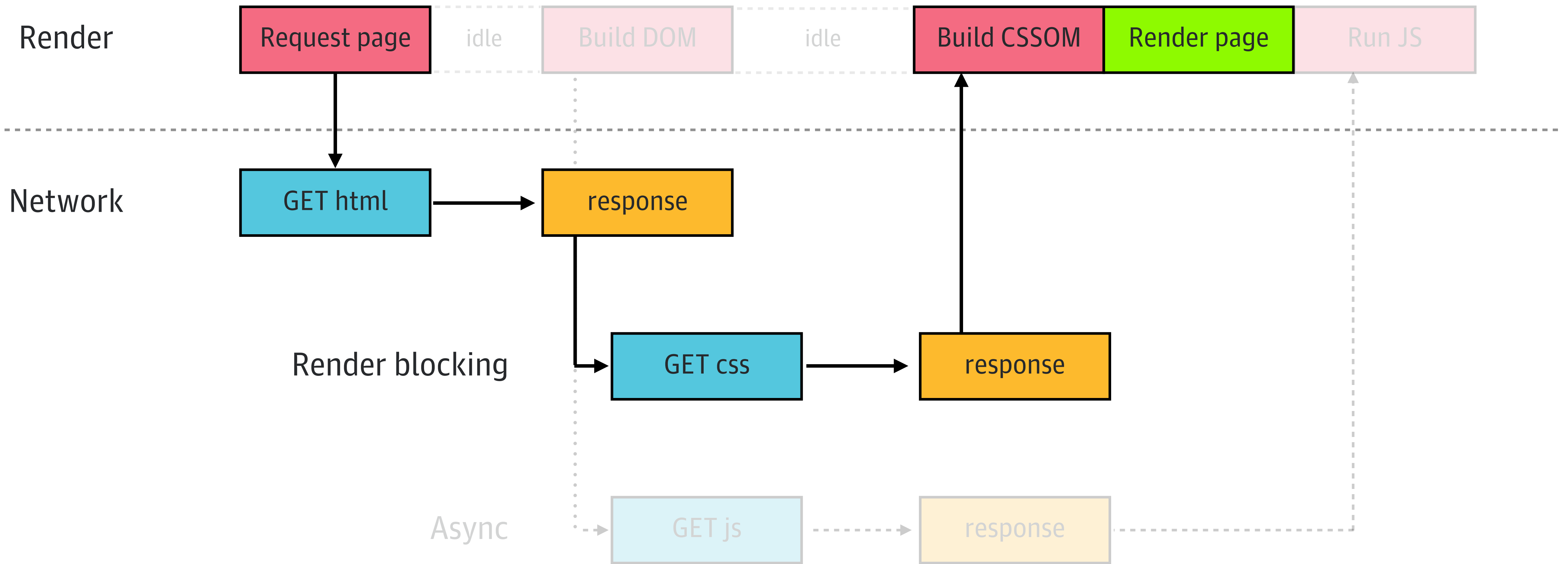






Source: [Google - Web Fundamentals](#)

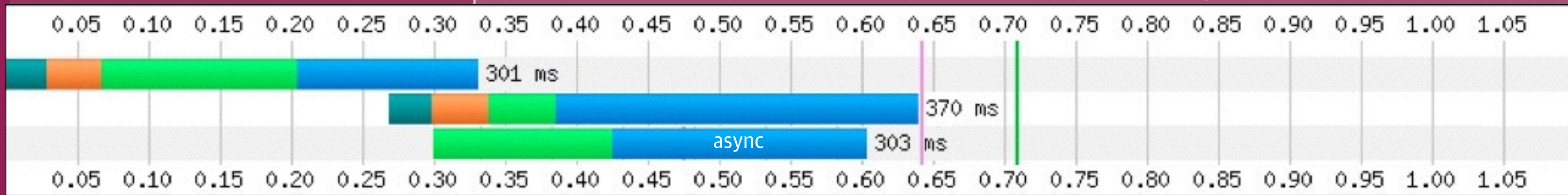




DOMContentLoaded

HTML

CSS & JS



Start render

**Get the CSS down  
as soon as possible.**

# What is your critical CSS?

---



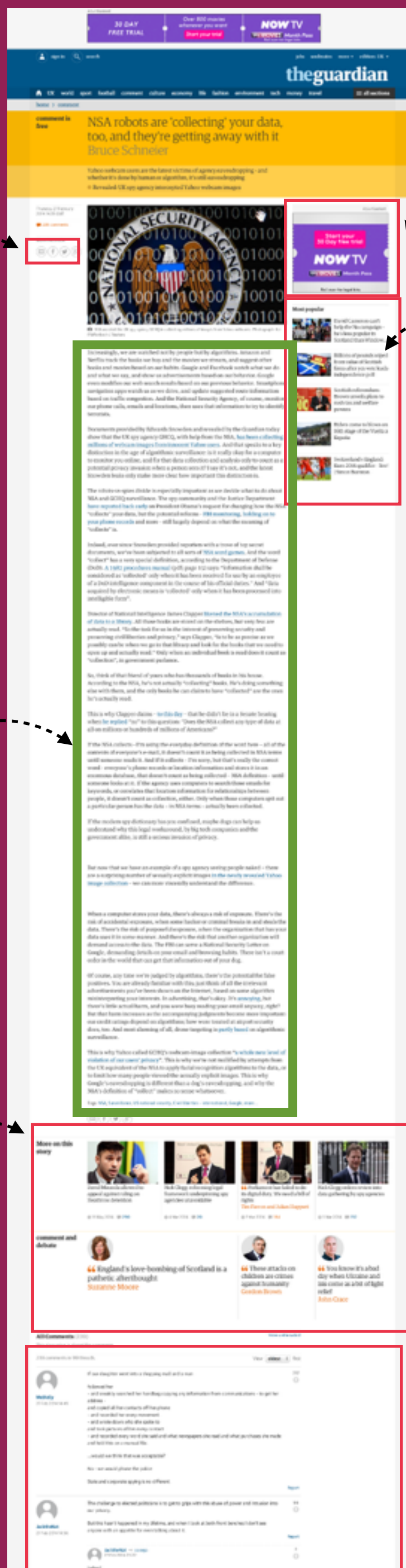
Friday 25 October 2013 18.45 BST

The UK intelligence agency GCHQ has repeatedly warned it fears a "damaging

✗ Sharing

✓ Article

✗ Related content



Commercial components ✗

Popular content ✗

Comments ✗

**What if we inlined  
our critical CSS?**

---

**Inline**

```
<!DOCTYPE html>
<html>
  <head>
    <title>The Guardian</title>

    <style type="text/css">
      /* Critical CSS */
      h1 {
        color: blue;
      }
    </style>

  </head>
  <body>
    <h1>Edward Snowden's not the story, The fate of the internet is</h1>

    <link rel="stylesheet" href="global.398fjvjh73jd.css" />
    <script src="app.348snc87464s3j.js" async></script>
  </body>
</html>
```

WTF%\$?!



```
40 <!--[if (gt IE 9)|(IEMobile)]><!-->
41 <style>
42     html{-ms-text-size-adjust:100%;-webkit-text-size-
adjust:100%}body{margin:0}article,aside,details,figcaption,figure,footer,header,hgroup,main,nav,section,summary{display:block}audio,canvas,progress,video{display:inline-block;vertical-align:baseline}audio:not([controls]){display:none;height:0}[hidden],template{display:none}a{background:transparent}a:active,a:hover{outline:0}abbr[title]{border-bottom:1px dotted;border-bottom:0.1rem dotted}b,strong{font-weight:bold}dfn{font-style:italic}small{font-size:80%}sub,sup{font-size:75%;line-height:0;position:relative;vertical-align:baseline}sup{top:-.5em}sub{bottom:-.25em}img{border:0}svg:not(:root){overflow:hidden}figure{margin:1em 40px;margin:1em 4rem}hr{-moz-box-sizing:content-box;box-sizing:content-box;height:0}pre{overflow:auto}code,kbd,pre,samp{font-family:monospace, monospace;font-size:1em}button,input,optgroup,select,textarea{color:inherit;font:inherit;margin:0;-webkit-font-smoothing:antialiased}button{overflow:visible}button,select{text-transform:none}button,html input[type="button"],input[type="reset"],input[type="submit"]{-webkit-appearance:button;cursor:pointer}button[disabled],html input[disabled]{cursor:default}button::-moz-focus-inner,input::-moz-focus-inner{border:0;padding:0}input{line-height:normal}input[type="checkbox"],input[type="radio"]{box-sizing:border-box;padding:0}input[type="number"]::-webkit-inner-spin-button,input[type="number"]::-webkit-outer-spin-button{height:auto}input[type="search"]{-webkit-appearance:textfield;-moz-box-sizing:content-box;-webkit-box-sizing:content-box;box-sizing:content-box}input[type="search"]::-webkit-search-cancel-button,input[type="search"]::-webkit-search-decoration{-webkit-appearance:none}legend{border:0;padding:0}textarea{overflow:auto}optgroup{font-weight:bold}table{border-collapse:collapse;border-spacing:0}td,th{padding:0}html{overflow-y:scroll}html.iframeed{overflow-y:auto}html.iframeed--overflow-hidden{overflow:hidden}body{background-color:#ffffff}html,body{overflow-x:hidden}head{font-family:'mobile'}@media all and (min-width: 30em){head{font-family:'mobileLandscape'}}@media all and (min-width: 46.25em){head{font-family:'tablet'}}@media all and (min-width: 56.25em){head{font-family:'rightCol'}}@media all and (min-width: 61.25em){head{font-family:'desktop'}}@media all and (min-width: 66.25em){head{font-family:'leftCol'}}@media all and (min-width: 71.25em){head{font-family:'faciaLeftCol'}}@media all and (min-width: 81.25em){head{font-family:'wide'}}
43 body:after{content:'mobile';border:0 !important;clip:rect(0 0 0 0) !important;height:1px !important;height:0.1rem !important;margin:-1px !important;margin:-0.1rem !important;overflow:hidden !important;padding:0 !important;position:absolute !important;width:1px !important;width:0.1rem !important}@media all and (min-width: 30em){body:after{content:'mobileLandscape'}}@media all and (min-width: 46.25em){body:after{content:'tablet'}}@media all and (min-width: 56.25em){body:after{content:'rightCol'}}@media all and (min-width: 61.25em){body:after{content:'desktop'}}@media all and (min-width: 66.25em){body:after{content:'leftCol'}}@media all and (min-width: 71.25em){body:after{content:'faciaLeftCol'}}@media all and (min-width: 81.25em){body:after{content:'wide'}}
44 .dateline{color:#767676;font-size:12px;font-size:1.2rem;line-height:14px;line-height:1.4rem;font-family:"Guardian Agate Sans 1 Web","Helvetica Neue",Helvetica,Arial,"Lucida Grande",sans-serif}@media all and (min-width: 46.25em){.dateline{font-size:13px;font-size:1.3rem;line-height:16px;line-height:1.6rem}}.dateline i{vertical-align:baseline}.relative-timestamp{display:block;color:#767676;margin:0}.relative-timestamp span{display:inline-block}.relative-timestamp__icon{vertical-align:-2px;vertical-align:-0.2rem}ol,ul{list-style-position:inside}html{font-family:"Guardian Text Egyptian Web",Georgia,serif;-moz-osx-font-smoothing:grayscale;-webkit-font-smoothing:antialiased;font-size:62.5%;font-size:calc(1em * .625)}body{font-size:1.6em;line-height:1.5}body{color:#333}html,body{-webkit-font-feature-settings:normal;-moz-font-feature-settings:"kern" 1, "liga" 1;font-feature-settings:"kern" 1, "liga" 1}pre,code{-webkit-font-feature-settings:normal;-moz-font-feature-settings:normal;font-feature-settings:normal}h1,h2,h3,h4,h5,h6{margin:0}blockquote{margin:0}p{margin-top:0;margin-bottom:8px;margin-bottom:0.8rem}h3{font-weight:normal;margin-bottom:7px;margin-bottom:0.7rem;font-size:16px;font-size:1.6rem;line-height:24px;line-height:2.4rem;font-family:"Guardian Text Egyptian Web",Georgia,serif}.type-5{font-family:"Guardian Egyptian Web","Guardian Text Egyptian Web",Georgia,serif;font-weight:normal;font-size:18px;font-size:1.8rem;line-height:24px;line-height:2.4rem}.control__icon-wrapper{position:relative;display:block;overflow:hidden;width:30px;width:3rem;height:30px;height:3rem;border:1px solid #333;border:0.1rem solid #333;padding:0;-webkit-border-radius:100rem;border-radius:100rem;-webkit-box-sizing:content-box;-moz-box-sizing:content-box;box-sizing:content-box;background-color:transparent}.control__icon-wrapper,.control__icon-wrapper:active,.control__icon-wrapper:focus,.control__icon-wrapper:hover{text-decoration:none;color:#333}a,.u-fauxlink{color:#005689;cursor:pointer;text-decoration:none}a:hover,a:focus,.u-fauxlink:hover,.u-fauxlink:focus{text-decoration:underline}a:active,.u-fauxlink:active{color:#4bc6df;text-decoration:none}.u-h{border:0 !important;clip:rect(0 0 0 0) !important;height:1px !important;height:0.1rem !important;margin:-1px !important;margin:-0.1rem !important;overflow:hidden !important;padding:0 !important;position:absolute !important;width:1px !important;width:0.1rem !important}@media all and (max-width: 56.24em){.u-h--up-to-right-col{border:0 !important;clip:rect(0 0 0 0) !important;height:1px !important;height:0.1rem !important;margin:-1px !important;margin:-0.1rem !important;overflow:hidden !important;padding:0 !important;position:absolute !important;width:1px !important;width:0.1rem !important}}
45 .is-hidden,[hidden]{display:none !important}@media all and (min-width: 46.25em){.mobile-only{display:none !important}}
```

0.0

0.1

0.2

0.3



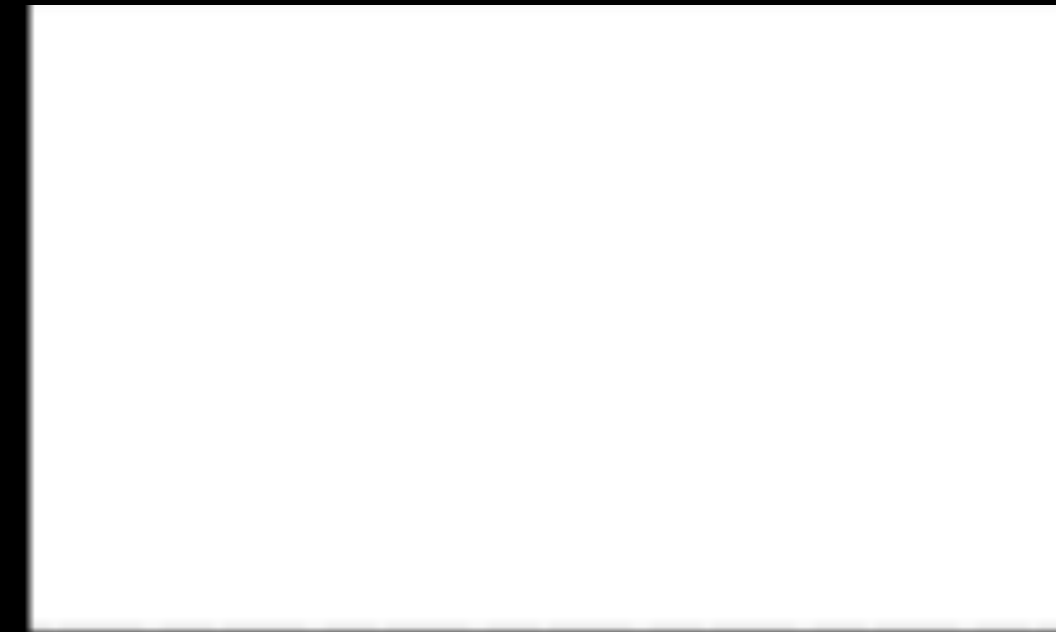
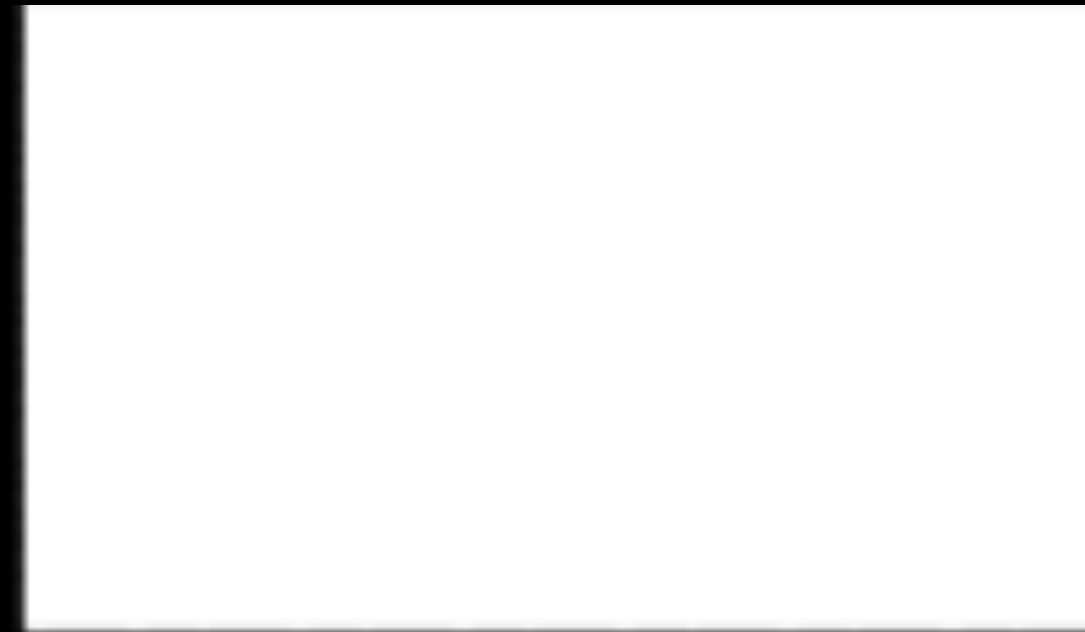
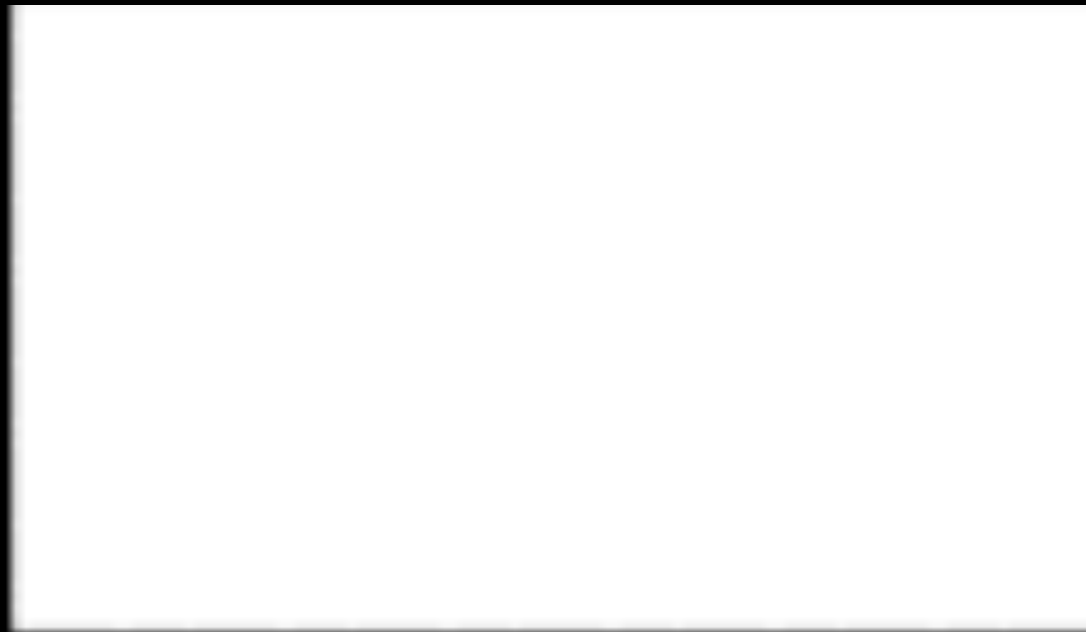
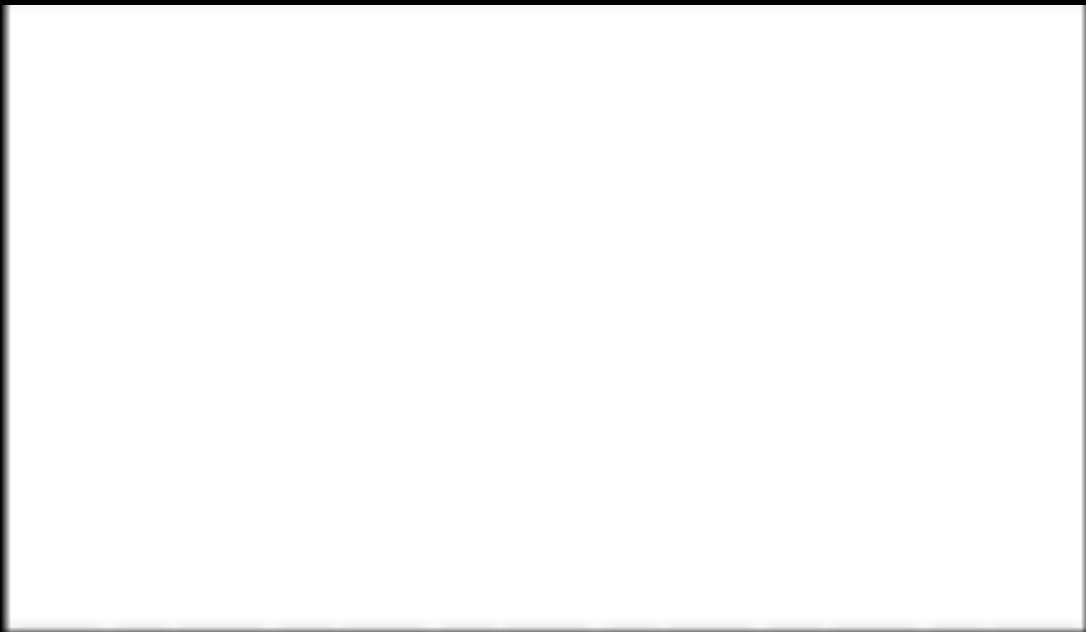
guardian.co.uk/

0.0

0.1

0.2

0.3



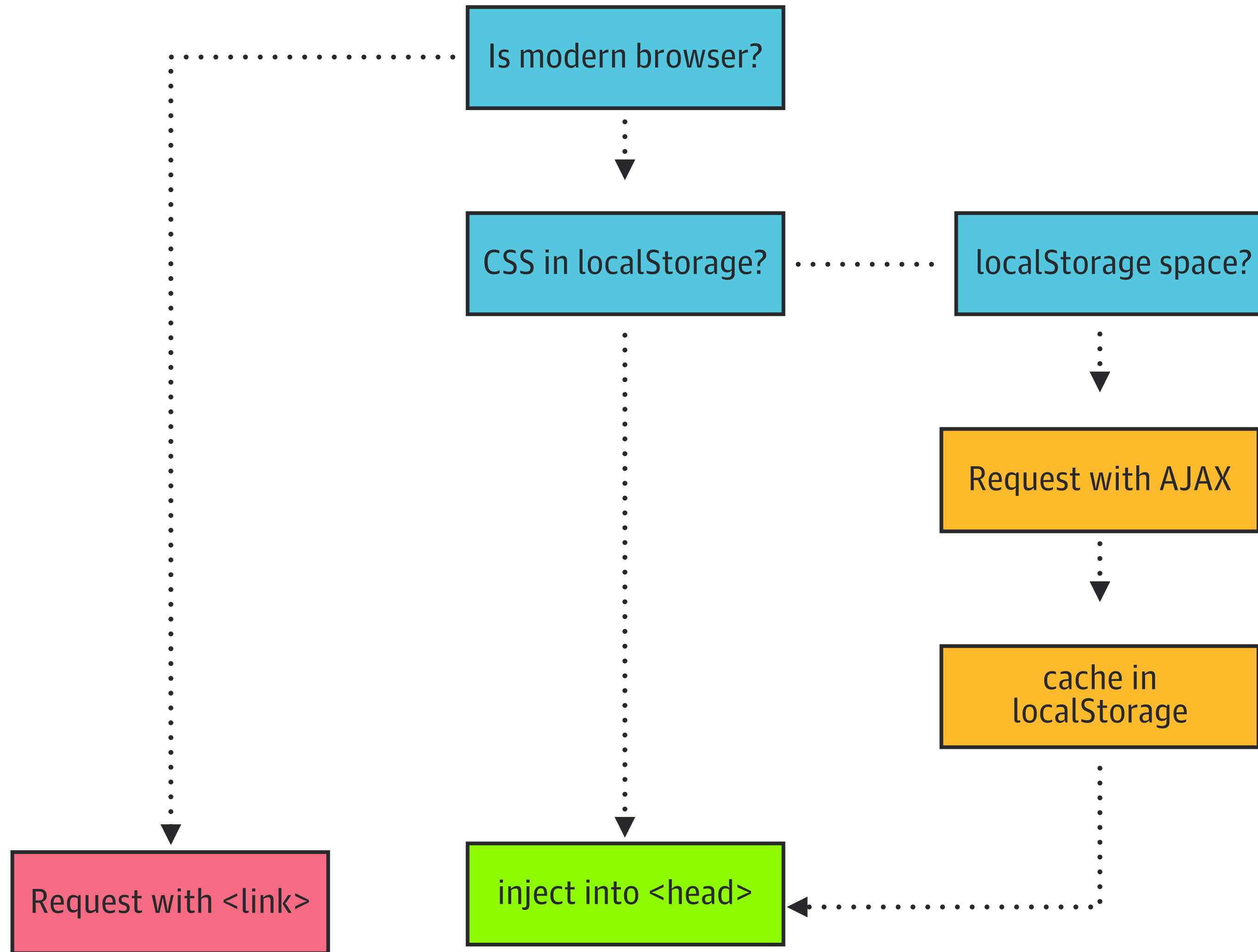
guardian.co.uk/

```
}  
}  
  
function loadCssWithAjax() {  
    var xhr = new XMLHttpRequest();  
    xhr.open('GET', '@Static("stylesheets/global.css")?page=ajax', true);  
    xhr.onreadystatechange = function() {  
        if (xhr.readyState === 4) {  
            if(xhr.status === 200) {  
                inlineCss(xhr.responseText);  
                storeCss(xhr.responseText);  
            } else {  
                loadCssWithLink();  
            };  
        }  
    }  
    xhr.timeout = 5000;  
    xhr.send();  
}
```

```
if(guardian.isModernBrowser && !guardian.css.loaded) {  
    loadCssWithAjax();  
} else {  
    loadCssWithLink();  
}
```

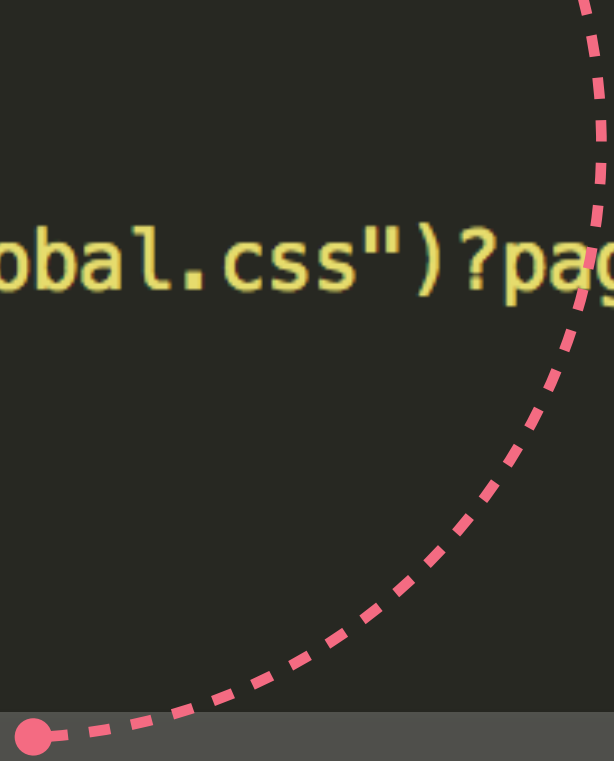
---

**localStorage**



```
function storeCss(c) {
    Object.keys(localStorage).forEach(function(key) {
        if(key.match(/^gu.css./g)) { localStorage.removeItem(key); }
    });
    try {
        localStorage.setItem('gu.css.@Static("stylesheets/global.css").md5Key', c);
    } catch(e) {
    }
}
}
```

```
function loadCssWithAjax() {
    var xhr = new XMLHttpRequest();
    xhr.open('GET', '@Static("stylesheets/global.css"?page=ajax', true);
    xhr.onreadystatechange = function() {
        if (xhr.readyState === 4) {
            if(xhr.status === 200) {
                inlineCss(xhr.responseText);
                storeCss(xhr.responseText);
            } else {
                loadCssWithLink();
            };
        }
    }
    xhr.timeout = 5000;
    xhr.send();
}
```



```
<!DOCTYPE html>
<html>
  <head>
    <title>The Guardian</title>

    <style type="text/css">
      /* Critical CSS */
      h1 {
        color: blue;
      }
    </style>

    <script>
      /* Load cached styles from localStorage */
      var css = localStorage.getItem("gu.css");
      if(css) {
        var style = document.createElement("style"),
            script = document.getElementsByTagName("script");
        style.innerHTML = css;
        script.parentNode.insertBefore(s, sc);
      }
    </script>
  </head>
  <body>
    <h1>Edward Snowden's not the story, The fate of the internet is</h1>
```

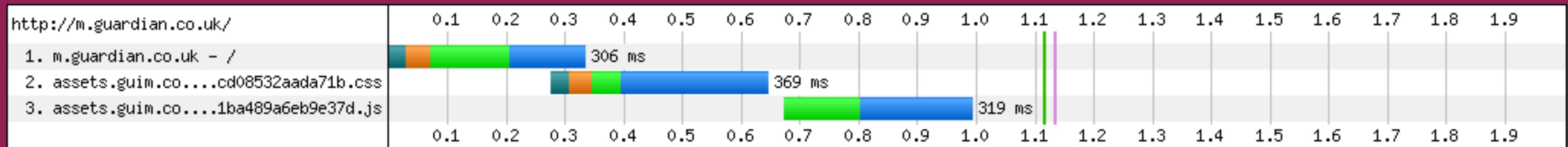
Project

- common
  - app
    - assets
      - images
      - javascripts
      - stylesheets
        - base
        - components
        - icons
        - module
        - theme
      - .bowerrc
      - \_extends-only.scss
      - \_head.common.scss
      - \_mixins.scss
      - \_vars.scss
      - bower.json
      - global.scss
      - head.commercial.scss
      - head.default.scss**
      - head.facia.scss
      - head.football.scss
      - head.identity.scss
      - head.index.scss
      - ie9.global.scss
      - ie9.head.commercial.scss
      - ie9.head.default.scss

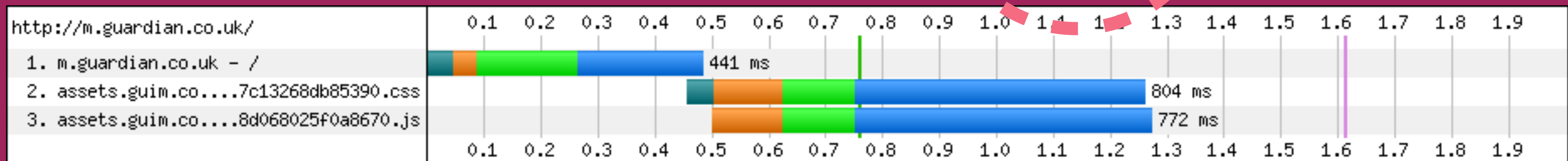
```
1 @charset 'UTF-8';
2
3 @import '_head.common';
4
5 @include tones-content;
6
7 /* =====
8    Global modules
9    ===== */
10
11 @import 'module/content/_article';
12 @import 'module/content/_content';
13 @import 'module/content/_media.head';
14 @import 'module/_breadcrumbs';
15 @import 'module/_social';
16 @import 'module/_layout-hints';
17
18
19 /* =====
20    External modules
21    ===== */
22
23 // These are for styling HTML that we get from external sources
24 // and may contain more specific selectors than we would usually like
25
26 @import 'module/external/_from-content-api';
27
```



# Before



# After



× Elements Resources Network Sources Timeline Profiles Audits Console PageSpeed

Name Path	Method	Status Text	Type ▲	Initiator	Size Content	Time Latency	Timeline	1.00 s	1.50 s	2.00 s	2.50 s
WTF no stylesheets?											

0 / 30 requests | 0 B / 495 KB transferred | 2.85 s (load: 1.35 s, DOMContentLoaded: 577 ms)

☰ 🔍 ☰ ● 🚫 All Documents **Stylesheets** Images Scripts XHR Fonts WebSockets Other ⚠️ 2 ⚙️

× Elements Resources Network Sources Timeline Profiles Audits Console PageSpeed

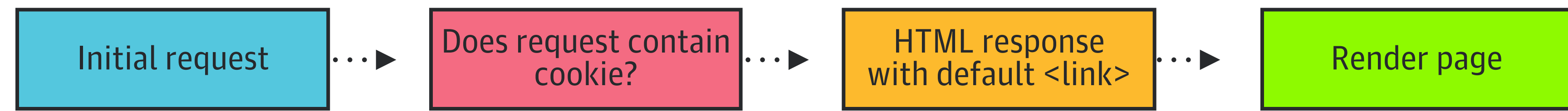
Key	Value
gu.css.1e4fbc24af486cd884a2dd1568ffc3a7	@charset "UTF-8";.from-content-api .element-witnes...
gu.fonts.WebEgyptian.f428543e70c87b13c2f905a8f3...	{"value":"@font-face{font-family:EgyptianHeadline;src:...

Use MD5 hash for cache key

☰ 🔍 ☰ 🔄 ✕ ⚠️ 2 ⚙️

---

**Cookie**





ngx\_pagespeed

<http://ngxpagespeed.com/>



Critical

<https://github.com/addyosmani/critical>

Penthouse

<https://github.com/pocketjoso/penthouse>



filamentgroup / **loadCSS**

**What does the future hold?**

---

HTTPbis Working Group  
Internet-Draft  
Intended status: Standards Track  
Expires: November 2, 2014

M. Belshe  
Twist  
R. Peon  
Google, Inc  
M. Thomson, Editor  
Mozilla  
May 1, 2014

## **Hypertext Transfer Protocol version 2**

### **draft-ietf-httpbis-http2-latest**

#### **Abstract**

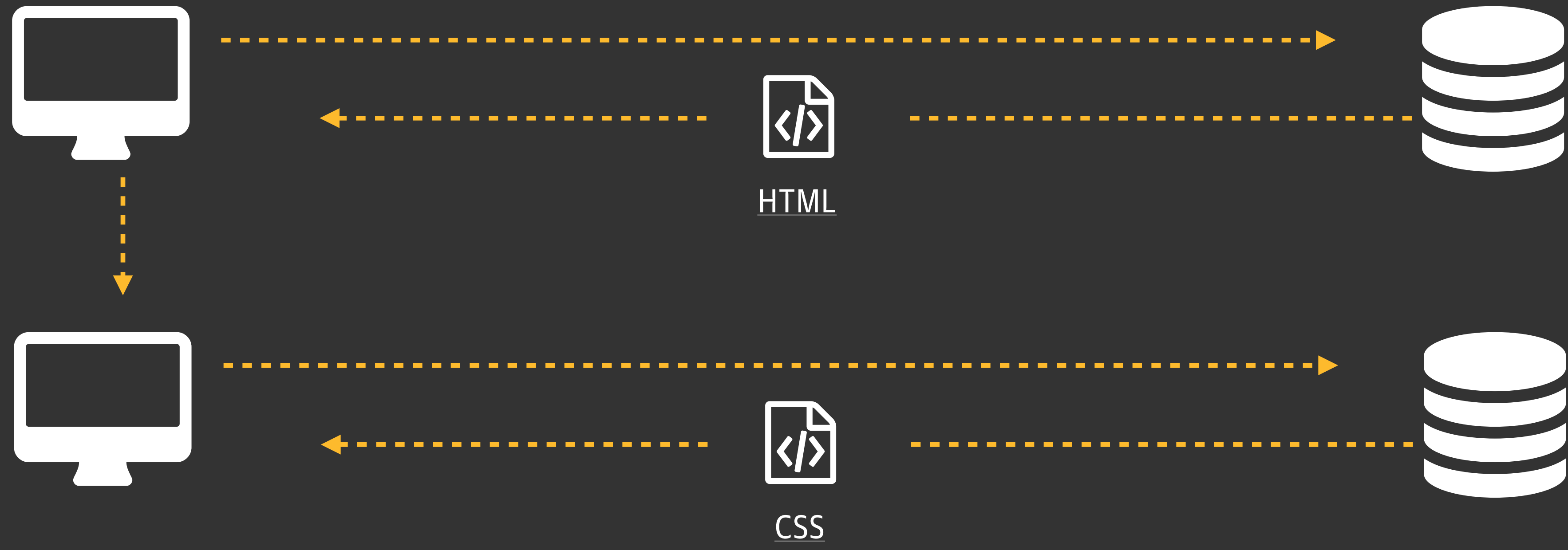
This specification describes an optimized expression of the syntax of the Hypertext Transfer Protocol (HTTP). HTTP/2 enables a more efficient use of network resources and a reduced perception of latency by introducing header field compression and allowing multiple concurrent messages on the same connection. It also introduces unsolicited push of representations from servers to clients.

This document is an alternative to, but does not obsolete, the HTTP/1.1 message syntax. HTTP's existing semantics remain unchanged.

Editorial Note (To be removed by RFC Editor)

**http/2**

HTTP/1.1



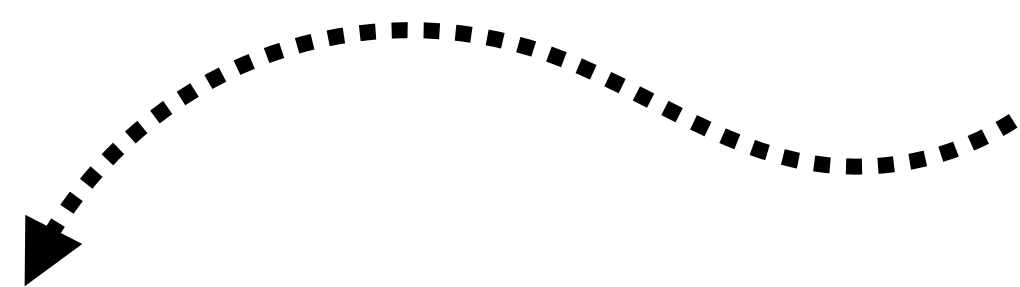
HTTP/2 Server push





1. ~~Core content should be delivered~~ **first**
2. ~~Core content should render within~~ **1000ms**
3. **Every feature must fail gracefully**
4. Every request should be **measured**

Story of my life



Waiting for fonts.googleapis.com...

# Font loading 101

---

	IE	Firefox	WebKit	Blink
Blocking	X	✓	✓	✓
Timeout	–	3s	–	–

*Fragmented views of reality regroup themselves into a new unity as a separate ps*

The spectacle presents itself simultaneously as society itself, as a part of so

*Understood in its totality, the spectacle is both the result and the goal of the dom*

It is the omnipresent affirmation of the choices that have already been m

*Separation is itself an integral part of the unity of this world, of a global soci*

But the split within this totality mutilates it to the point that the specta

*The spectacle cannot be abstractly contrasted to concrete social activity. E*

**Objective reality is present on both sides. Each of these seemingly fix**

*In a world that is really upside down, the true is a moment of the false.*

**Considered in its own terms, the spectacle is an affirmation of app**

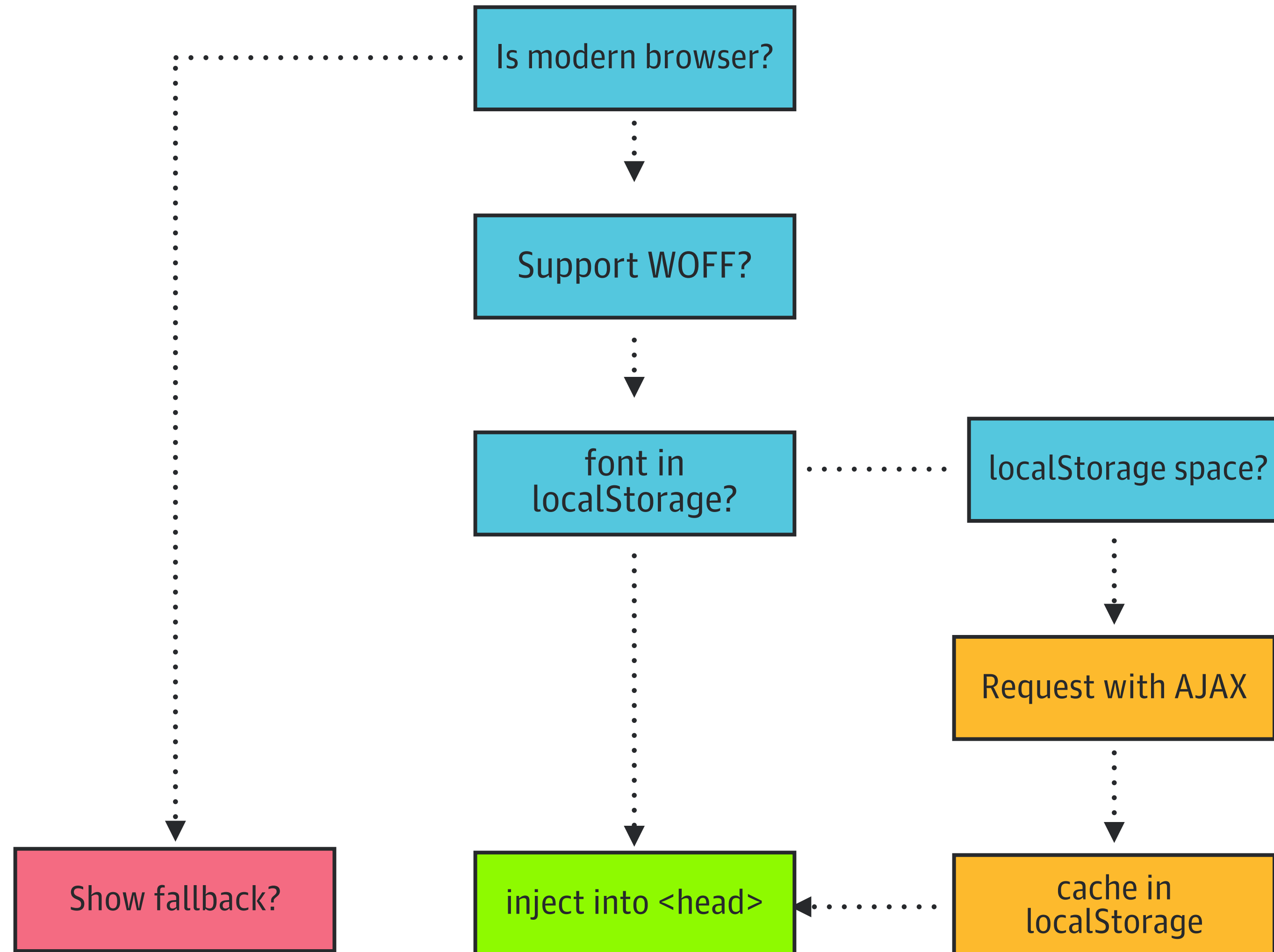
*In order to describe the spectacle, its formation, its functions, and t*

**The spectacle presents itself as a vast inaccessible reality that ca**

*The tautological character of the spectacle stems from the fact th*

**Progressive  
enhancement is a  
universal smart  
default.**

<http://easy-readers.net/>



```
{
```

```
"css" : "@font-face{font-family: EgyptianText; src: url(data:application/x-font-woff;base64,  
d09GRgABAAAAAEopAAwAAAAAkBwAAAAAABI+AAAATEAAAJiAAAAAABHUE9TAAA6JAAADjkaACw2TLE43Ed  
TVUIAAEhgAAAAlwAAA0JbQlwHT1MvMgAAAZQAAABYAAAAAYG3Bc1FjbWFWAAAEGAAAArEAAAPwBLUopmdseWYAAAiQAA  
AspAAATqhnZM4UaGVhZAAAARwAAAA2AAAANvyN/WdoaGVhAAABVAAAACAAAAAkBzsEUmhtdHgAAAHsAAACLAAAA3Tkk  
SIRbG9jYQAABswAAAHCAAABwrHgn2ptYXhwAAABdAAAAB0AAAAgA08AwG5hbWUAADU0AAADbAAACR36aaKkcG9zdAAA  
OKAAAAGCAAACBV5fDrgAAQAAAAEAg1gtvrBfDzz1AAsD6AAAAADMT0ckAAAAAMz2cdj/Pv80B0sD9AAAAAkAAgAAAA  
AAHjaY2BkYGDm/6/0wMAq8t/uvw3LawagCAq4BQByNwWVeNpjYGRgYHjAkMLAzhDFwMIA4iEAMwMjACoNAbAAAAB42mN  
gZrJgnMDAysDA1MUUwcDA0A0kuxgYGK8xGDE8BIqysTKzs jKzcTAD5dgZkICzv68vgw0Dwm8mZv7/6gwMzF8YPikwMEw  
GyTGJMV0EUgoMzABSPAzoeNptkk9IVFEUxr9zrkVpCa0DRhNTk8g00zSXeAMNFNHTZEhIk4IkZYxpV0QLoUCypxARRJs  
QWrRt3R9qEyK4qEWLIPqzKKxdEAUVNJta9Pzu7SUW8fi9c7l/zv30d480AX2DnI4gr3XkZAzbTAQrz7FDb2KDhmjVU1y  
fQJs0YJ0uQ8HMImdG0Gu4Fz8wjo+AtKBf7qGmFVh94edrMoEK2SwvUZUqCjKNkHFYLIALfThGyvKEeRZR1cdYr3085wa  
KXk9EpsgzFE2KuhpkEd36lHPUaW4zxuQD959M4kNGater6NJ32KjzaDdfkfL5XC3UL+dxhPfnGa28R4/U41/SxJSmnQc  
cf6cPkyhplnsmsUWL6KC0jATokt54SQ/6cdo8QEYvEufbaeoaR0nmuEbfJEIn11J6CK1miP4NUo/zkd7JXRSdZ4xWFni  
nq9vh6o5W1eT0003/wWvM/o3XF2CtBPFP8m1F2784XauQ19S7gIoGzBFhj84gq9dY9zTypgbbSPM6m7hERs1b6qQ2+cQ  
83egx/b5v2vmGlu/fJ7fi+/IFu4g1Mxh2fbFSH8+ZV+ydR7xnCaFRhNrpKYlLX1h67jzi0+FzvF/KzFNmXqfP9Yxb516  
fK0p8i373ie+NBtKkzY29f39wPiZ4j5o4QqbJ0dIg80l9d8hZcp2M6RV6MEtGcZhsJSHJkN3kDNlLDpDtZIBUyL4kBuS  
4uYzCmjQK7iy/o2SI//oyLHWhCnjahZP3T9ZQGEZPP0XRxi17lu/FreAWJ4gD994LBy7ArbgRERUXIiruPXFvcaPg3qI  
YBT//CWniQn1aopH4g7fpvwl78+a+5zwFCpF/V8PQjMtPT4bzXNhVXGtnXV5am9KwjiznMKmc5zLXsYwAI9gYZIQZ0cZ  
yI8n1yJVj+phVzBqm2/Qz/c1AM8Q87et2l/3psixVMPEnkeE4c4ChnVeEqaaOQZAw0xqvCMlXIdGwb5cxKZjXTdCq0/VPB  
cCrsAesbZrCynDkhL90KzTtqNcrbZDnn9yTkf/fM8pzwRHrCPNW/huc+9spQT531erTuCUxlntYFLKbg+M4PtNEobHjz  
7yhDwcrhw2M+Up4KVKQSlfLEFaQKVnVqUJNccvjKDpL4wF0eUZpYEljDRpKJ5w4rieMk6WxiGyUpQSm2kCIap9nJeMJYr  
90dZyJn0CdCF7jIJR1oEte4Il67mMxnNpAm+jcIpyjFWK1upjCNGUwngs1EMpMoZjGbucxRn/NxqdNoFrKIJer4C4ksY6  
lMrsCb4vJ5iwzuco/7P0Q2DzjIIU6xX55SieEEqyhiPHX8ef7L4DkveMkrXv0Gt7zjPvL/cTHxxU0talMHP+pSj/o0oCGN  
aEwTJcyfAJrRnBa0pBWtaaPMBdK09nRQ9jrJYBDBdCGErnSj0z0IpSe96E0f+tKP/gxgIIMYzBCGMozhjGAko2R9DGMZp  
x5sxhPEd5JIhovbVJGbLnYR4hYlcja30SJnc1sgZtGitljcloqZTSxGBm2zsaISJ/bxcruWddipWy8zv8ezAsnZKN/ITa  
JsJzlvtpzsLkWXWlJkf1d7Fa+97LPIW87+KIdhzmiv+UJxzh0Jo9k46TcPJktxJxRbs4pLfkpuewkBCXFzkYaN+X1thKX  
bzZdXh+S8QsbJd4dAAAAAAAAAAAA2AIwAsgDUATIBPgFsAXgBsAH2AiICLgJyAqYDBAMYAxgDNgNKA3oD5APyBBgEPAReBIA  
EjASiBLAE1gUIBVgFygX+BkQGeAakBswG8AcqB1gHcAeUB8AH2gg0CGgIoAjSCRAJSamaCbgJ5AoSCmgKmg rACuAK8gsACxI  
LJAsyC0ALkgvQDAIMQgx2DKYNGA1KDXANog3MDeIOLg5eDpg03A8aD0YPjg+4D+gQFBBoEJYQ1BDyEUoRWBGuEdYSKhKIEtQ  
);font-weight:900;}"
```

```
}
```



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phamann + ▾



ahume / **grunt-webfontjson**

Watch ▾ 1

★ Star 6

Fork 3

Wrap webfontjson in grunt task

7 commits

1 branch

0 releases

1 contributor



branch: master ▾

**grunt-webfontjson** / +

Bump version number for new webfontjson version.



ahume authored 5 months ago

latest commit 9d40dbfb35

tasks	Corrected default readme.	a year ago
test	Initial simple config working.	a year ago
.gitignore	Initial simple config working.	a year ago
.jshintc	Initial simple config working.	a year ago

Code

Issues 2

Pull Requests 1

Wiki

Pulse

Graphs

Network

# Webfontjson



**What does the future hold?**

---



# CSS Font Loading Module Level 3

W3C First Public Working Draft, 1 May 2014

**This version:**

<http://www.w3.org/TR/2014/WD-css-font-loading-3-20140501/>

**Latest version:**

<http://w3.org/TR/css-font-loading/>

**Editor's Draft:**

<http://dev.w3.org/csswg/css-font-loading/>

**Feedback:**

**Font load events**



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igrigorik / **css-font-timeout**  
 forked from [KenjiBaheux/css-font-rendering](#)

👁 Watch 3
★ Star 29
🍴 Fork 4

branch: patch-1 **css-font-timeout / README.md**

 **scheinercc** 25 days ago fix typo

5 contributors 

131 lines (91 sloc) | 6.524 kb

Raw
Blame
History
🖨
✎
🗑

# css-font-rendering

A proposal to let web developers control font-rendering

## Background

`font-rendering` parameter

`font-rendering: optional | swap <time>? | mandatory <time>?`

**CSS font rendering**



This repository ▾

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phamann + ▾



slightlyoff / ServiceWorker

Watch ▾ 98

★ Star 486

Fork 50

## The Service Worker Specification

455 commits

2 branches

0 releases

20 contributors



branch: master ▾

ServiceWorker / +

forEach should resolve with undefined



jakearchibald authored 2 days ago

latest commit 406795e466

examples

Add a way to log messages, and use it in the fetch event.

a month ago

publish

Add missing bit for the pub rule

3 days ago

spec

Move to fixed version of web-spec-framework for both IE 10 and the <s...

3 days ago

.gitignore

Wikipedia example: setting up static files

11 months ago

Code

Issues 98

Pull Requests 1

Wiki

Pulse

Graphs

Network

# ServiceWorker

ServiceWorker



1. ~~Core content should be delivered~~ **first**
2. ~~Core content should render within~~ **1000ms**
3. ~~Every feature must~~ **fail gracefully**
4. Every request should be **measured**

**WARNING!**

**Load video styles everywhere** [Browse code](#)

master

**kaelig** authored on Mar 5 1 parent [964dbd8](#) commit [9840600a7014d3f6fbb7c5c85736f64d7275dfa1](#)

Showing **5 changed files** with **2 additions** and **11 deletions.** [Show diff stats](#)

1 ■ ■ ■ ■ common/app/assets/stylesheets/head.default.scss [View](#)

```
@@ -8,6 +8,7 @@
===== */
8      8
9      9
10     10    @import "module/_article";
11     11    +@import "module/_video";
11     12    @import "module/_social";
12     13
13     14
```

# Static assets

## Summary

Asset filename	Current size (Raw)	Current size (GZip)	Week-on-week Change
<a href="#">app.js</a>	304.0 Kb	95.0 Kb	↑ 3.30 Kb
<a href="#">facia.js</a>	5.0 Kb	1.0 Kb	↑ 1.00 Kb
<a href="#">global.css</a>	270.0 Kb	56.0 Kb	↑ 29.82 Kb
<a href="#">head.default.css</a>	81.0 Kb	13.0 Kb	↑ 1.38 Kb
<a href="#">head.facia.css</a>	72.0 Kb	12.0 Kb	↑ 1.04 Kb
<a href="#">head.football.css</a>	83.0 Kb	14.0 Kb	↑ 3.16 Kb
<a href="#">head.identity.css</a>	69.0 Kb	12.0 Kb	↑ 1.90 Kb

### 📄 app.js

Size in Kb (last 14 days)

304.8  
303.6  
302.4  
301.2

Size

Current size (Raw)	Current size (GZip)	Week-on-week Change
304.0 Kb	95.0 Kb	↑ 3.30 Kb

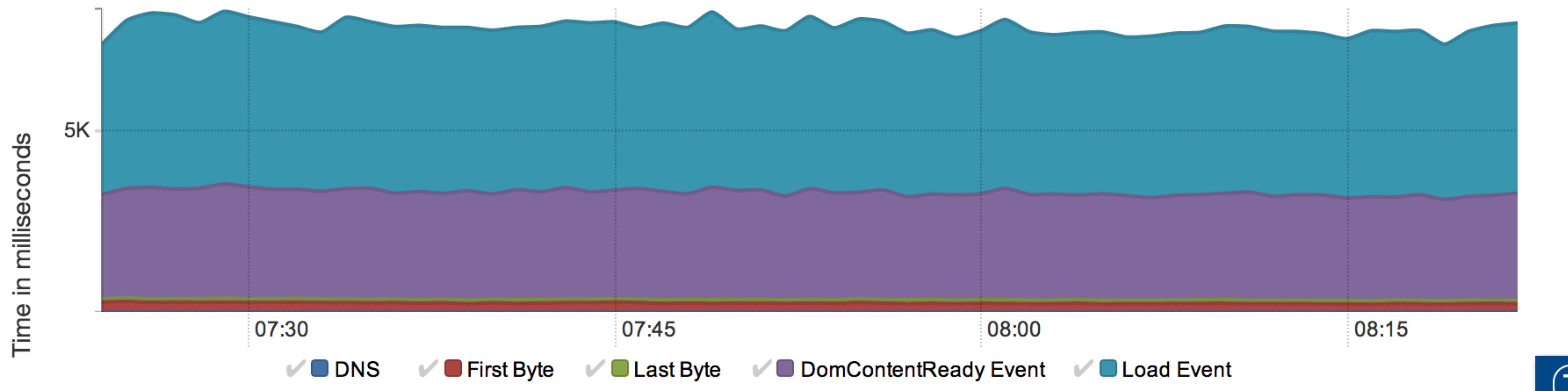
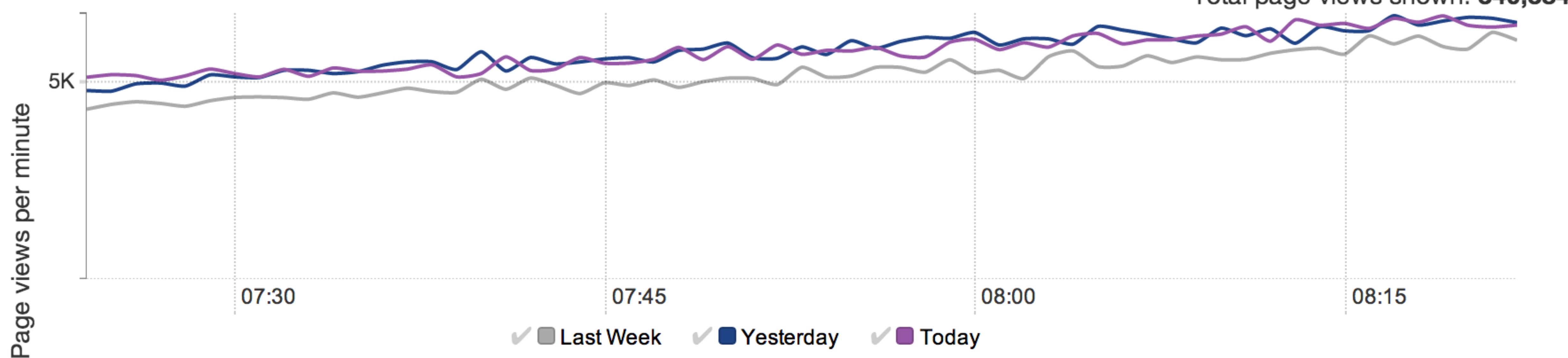


**R.U.M.**  
**(real user metrics)**

Stacked

DNS First byte Last byte DOM content loaded Loaded

Total page views shown: 340,384



Filter by

Time

Section

Device

Browser

Country

Referrer

Breakdown by

Stacked

DNS

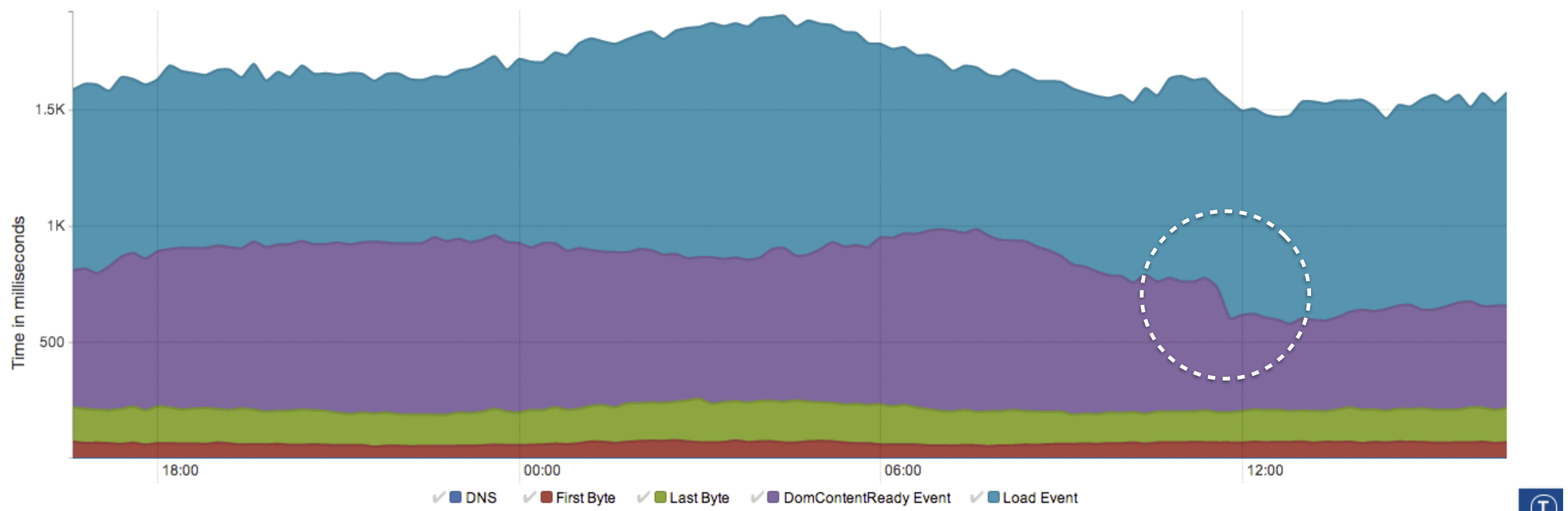
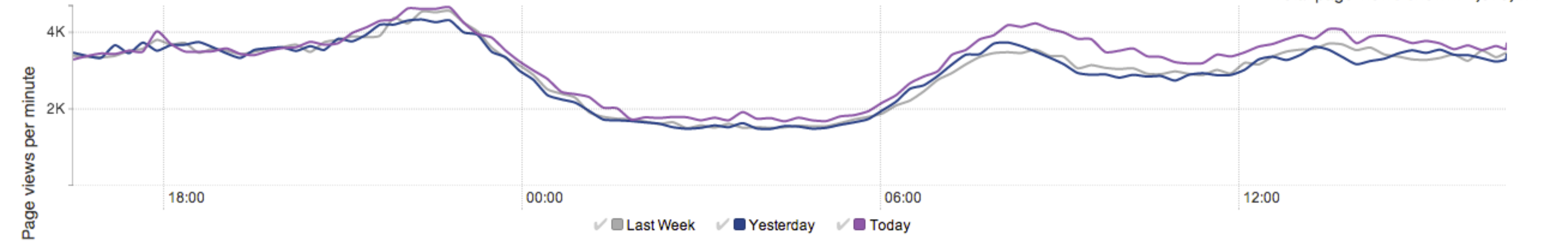
First byte

Last byte

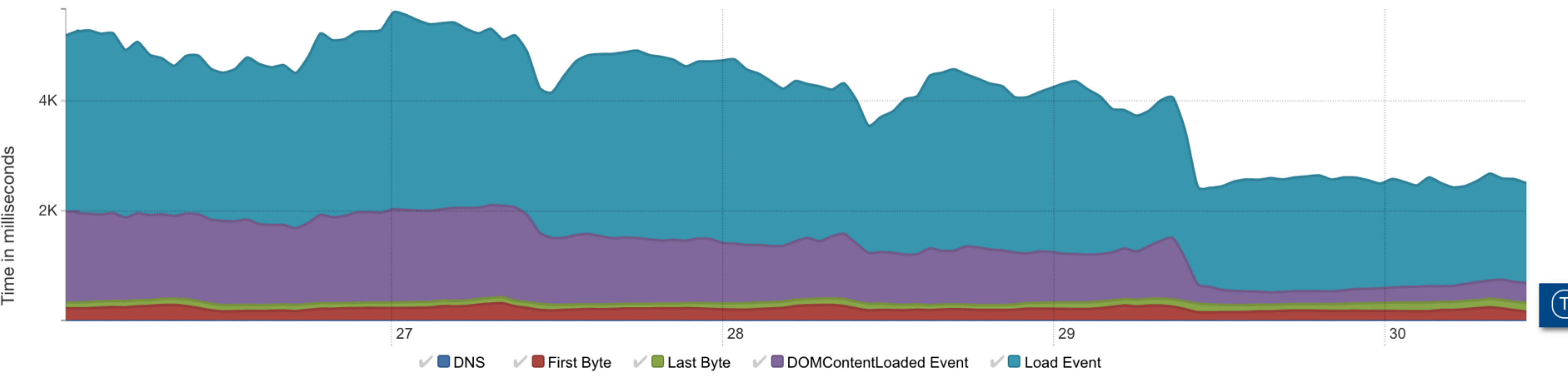
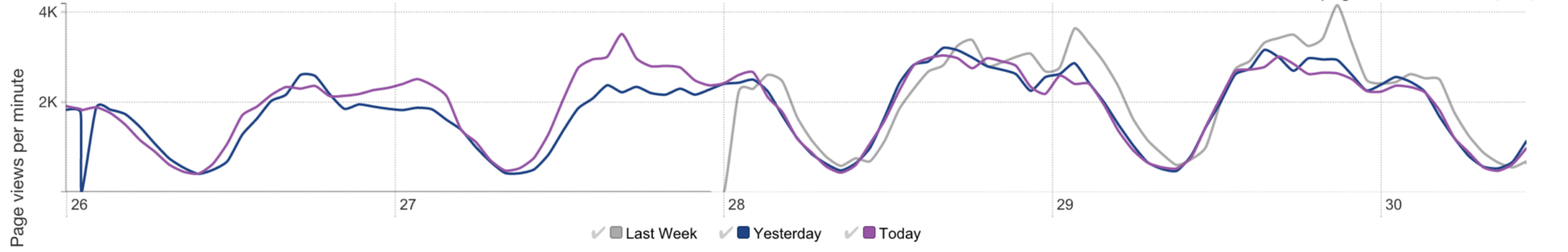
DOM content loaded

Loaded

Total page views shown: 4,678,277



Total page views shown: 12,351,023



# ALL SITES AND ALL TEMPLATES IN ALL BROWSERS OVER THE LAST 30 DAYS ▼

MEDIAN BACKEND | START RENDER | DOM | FULLY LOADED | SPEEDINDEX | PAGESPEED

Guardian Beta

**0.8s**

#1

Guardian

**2.1s**

#2 - 163% slower

Huffington

**2.3s**

#4 - 188% slower

NY Times

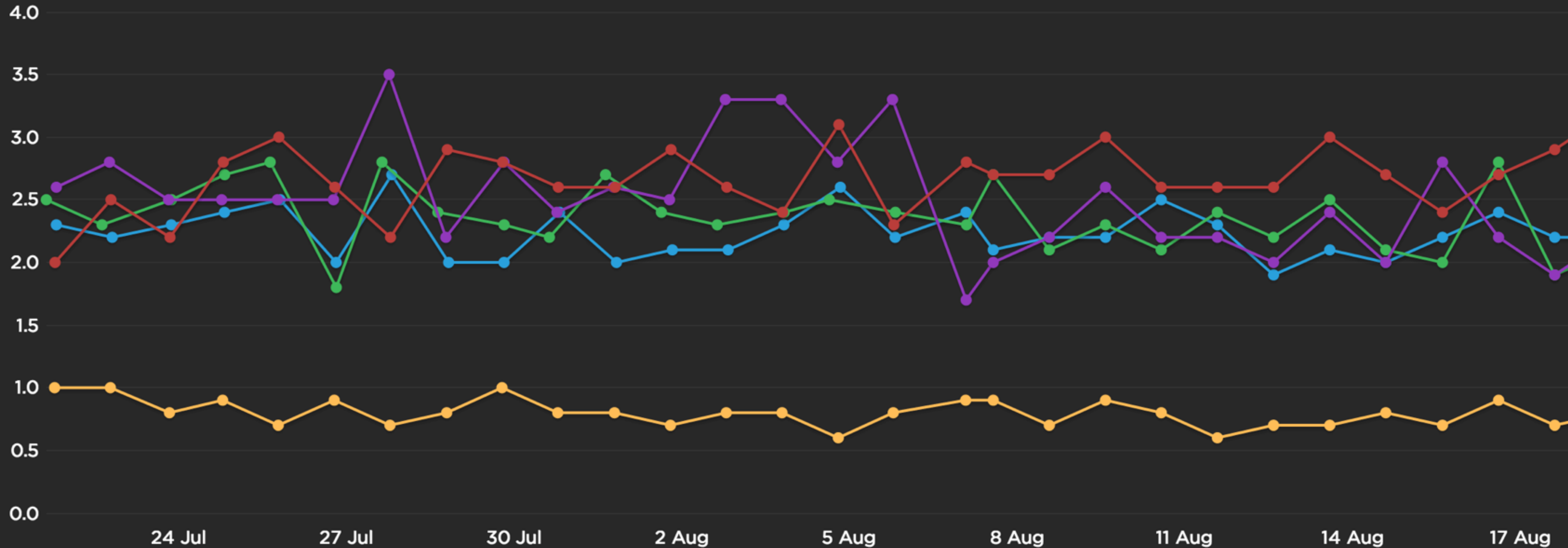
**2.2s**

#3 - 175% slower

TechCrunch

**2.6s**

#5 - 225% slower



5/5/2014

guardian.co.uk Mail - [SpeedCurve] Weekly performance report for Guardian NGW 22nd Jan



Patrick Hamann <p...>


ik>

## [SpeedCurve] Weekly performance report for Guardian NGW 22nd Jan

Mark Zeman <mark@speedcurve.com>

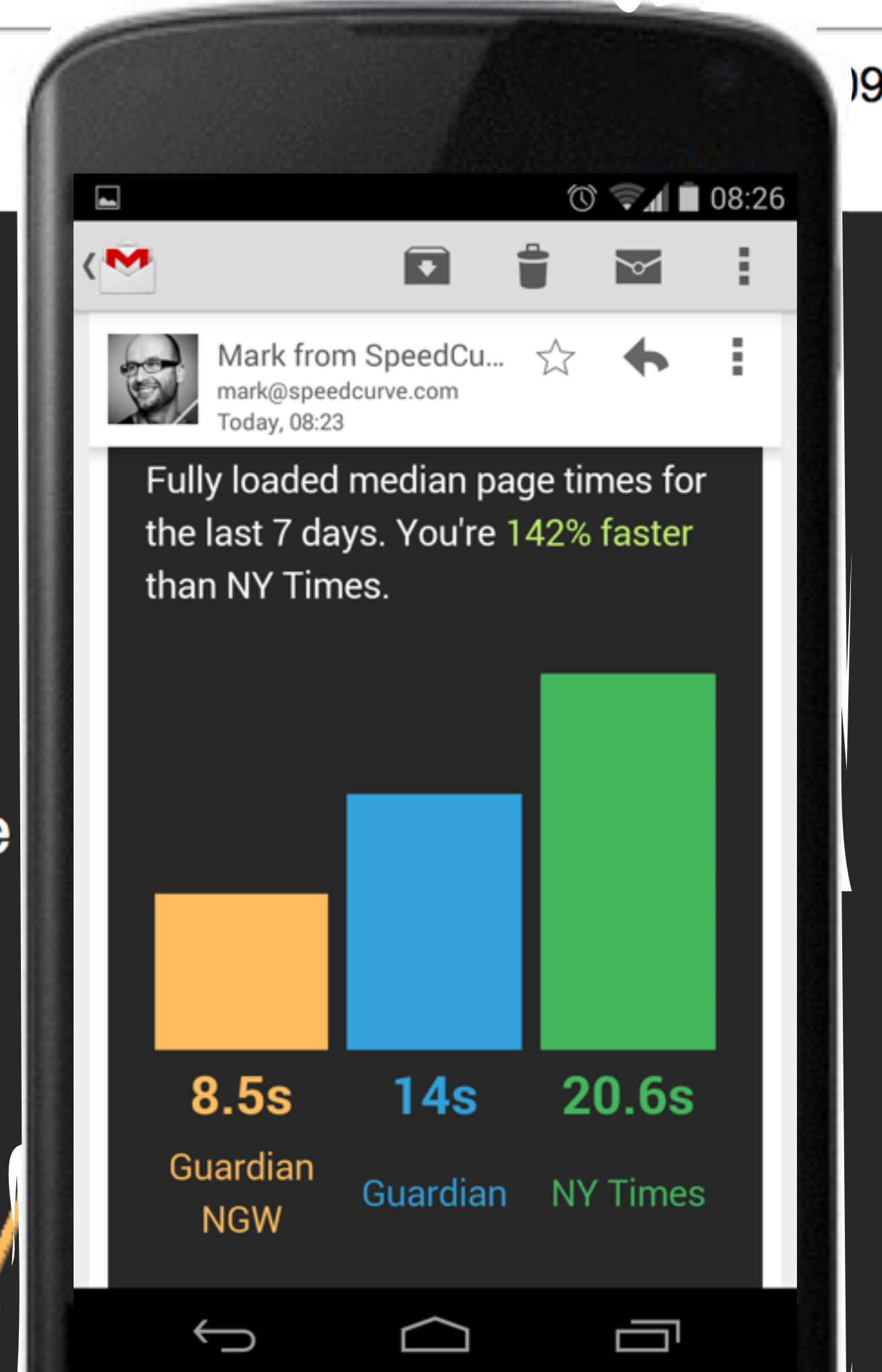

To:

09:15



Hi Patrick,

Guardian NGW's median loaded time for the



Mark from SpeedCu...  
mark@speedcurve.com  
Today, 08:23

Fully loaded median page times for the last 7 days. You're **142% faster** than NY Times.

Entity	Median Page Time
Guardian NGW	8.5s
Guardian	14s
NY Times	20.6s

**What does the future hold?**

---



## Resource Timing

W3C Candidate Recommendation 25 March 2014

**This version:**

<http://www.w3.org/TR/2014/CR-resource-timing-20140325/>

**Latest version:**

<http://www.w3.org/TR/resource-timing/>

**Latest Editor's Draft:**

<http://dvcs.w3.org/hg/webperf/raw-file/tip/specs/ResourceTiming/Overview.html>

**Previous versions:**

<http://www.w3.org/TR/2012/CR-resource-timing-20120522/>

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Jatinder Mann, Microsoft Corp., [jmann@microsoft.com](mailto:jmann@microsoft.com)

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Zhiheng Wang, Google Inc. (*Until July 2012*)

# Resource Timing



# Beacon

Editor's Draft February 12, 2014

**This version:**

<http://dvcs.w3.org/hg/webperf/raw-file/tip/specs/Beacon/Overview.html>

**Latest published version:**

<http://www.w3.org/TR/beacon/>

**Editors:**

Arvind Jain, Google Inc., <[arvind@google.com](mailto:arvind@google.com)>

Jatinder Mann, Microsoft Corp., <[jmann@microsoft.com](mailto:jmann@microsoft.com)> *(Until February 2014)*

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---

## Abstract

This specification defines an interoperable means for site developers to asynchronously transfer small HTTP data from the

## Status of this document

*This section describes the status of this document at the time of its publication. Other documents may supersede this document.*

# Beacon API



# Takeaways

---

“

Everyone must be involved by baking performance into your workflow from day one.

“

Deliver core content first,  
then progressively enhance the extras.

“

Set a performance budget.  
Measure, optimise & repeat!

“

Performance is a requirement;  
not an extra feature.

**Thank you.  
Questions?**

---

*@patrickhamann - Velocity EU - November 2014*