

prefetch, prerender, preload, pre-what?

# Resource Hints

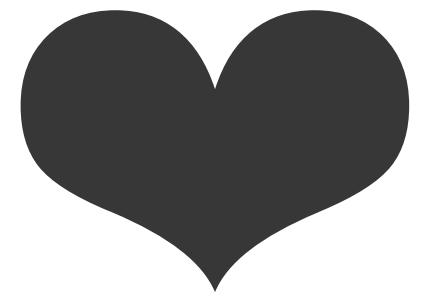


@RobinDrexler - XING

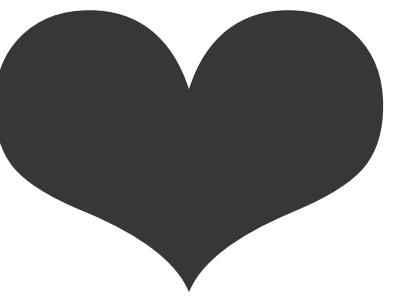
Browsers are smart

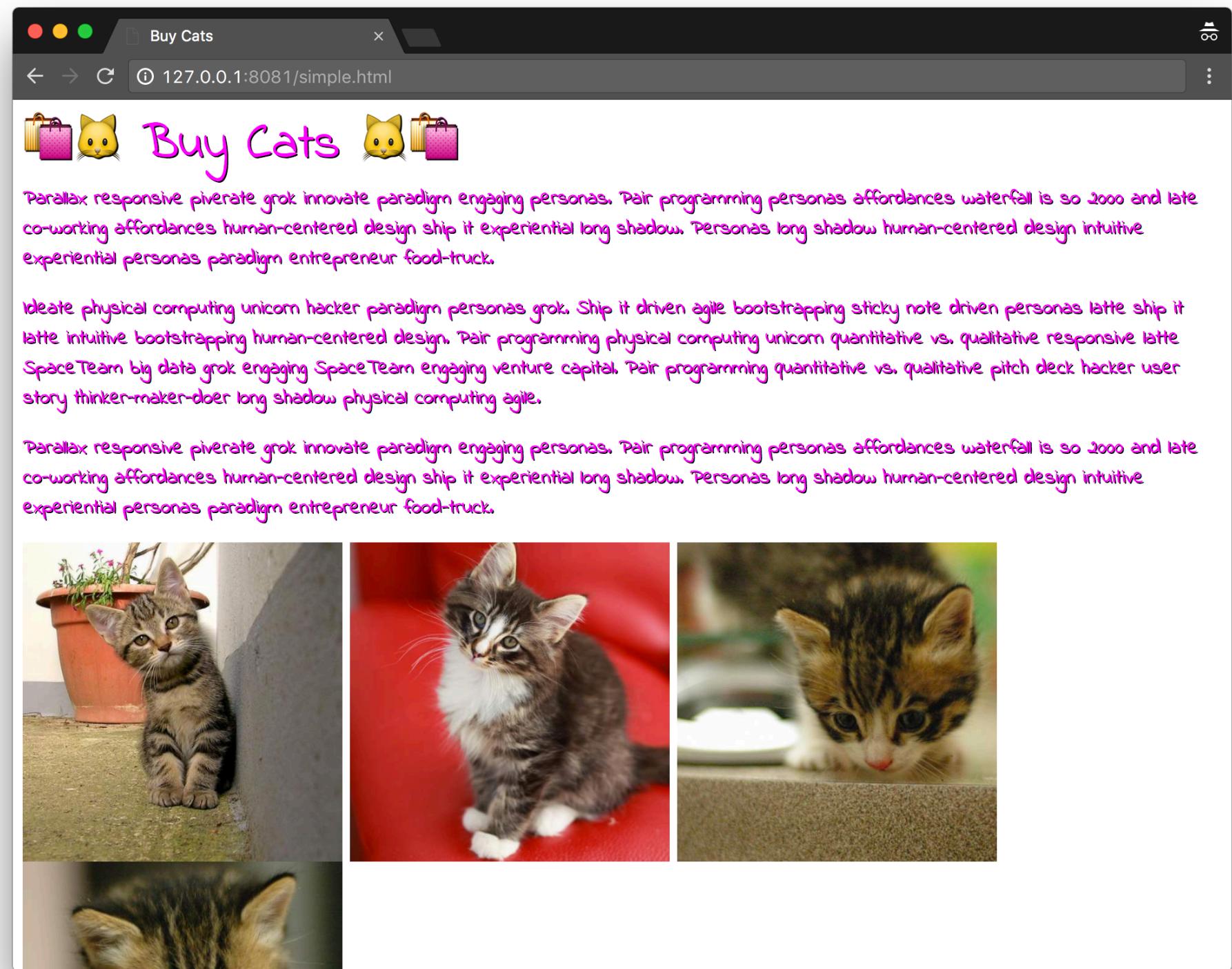
Browsers are smart

But they need our help

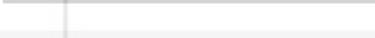


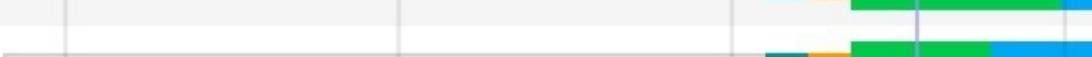
web fonts

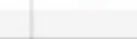
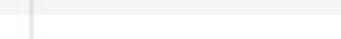
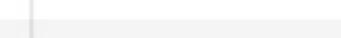
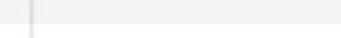
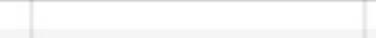




```
<head>
  <link
    href="https://fonts.googleapis.com/css?family=Indie+Flower"
    rel="stylesheet"
  >
  <link
    href="styles.css"
    rel="stylesheet"
  >
  <!-- more links and scripts -->
</head>
<body>
  <!-- images and other content -->
</body>
```

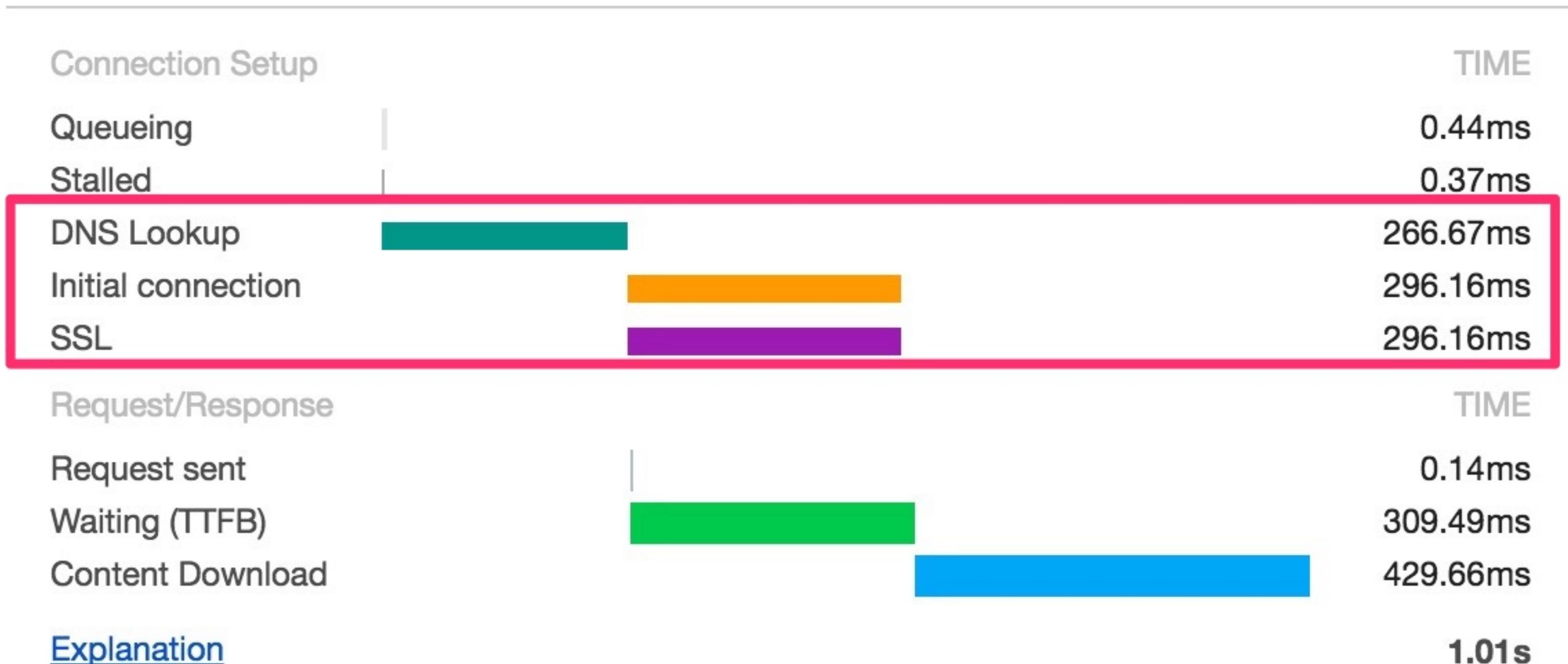
Name	St...	Type	Initiator	Size	Waterfall	4.00 s	6.00 s	8.00 s	▲
simple.html	200	document	Other	2.8KB					
bootstrap.min.css	200	stylesheet	simple....	20.2KB					
css?family=Indie+Flower	200	stylesheet	simple....	538B					
styles.css	200	stylesheet	simple....	51.3KB					
jquery.min.js	200	script	simple....	29.9KB					
bootstrap.min.js	200	script	simple....	11.9KB					
510	200	jpeg	simple....	33.6KB					
520	200	jpeg	simple....	22.6KB					
530	200	jpeg	simple....	31.5KB					
540	200	jpeg	simple....	23.2KB					
script.js	200	script	simple....	151KB					
10JVD_humAd5zP2yrFqw...	200	font	simple....	18.9KB					

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bootstrap.min.js	200	script	simple....	11.9KB					
510	200	jpeg	simple....	33.6KB					
520	200	jpeg	web font simple....	22.6KB					
530	200	jpeg	simple....	31.5KB					
540	200	jpeg	simple....	23.2KB					
script.js	200	script	simple....	151KB					
10JVD_humAd5zP2yrFqw...	200	font	simple....	18.9KB					

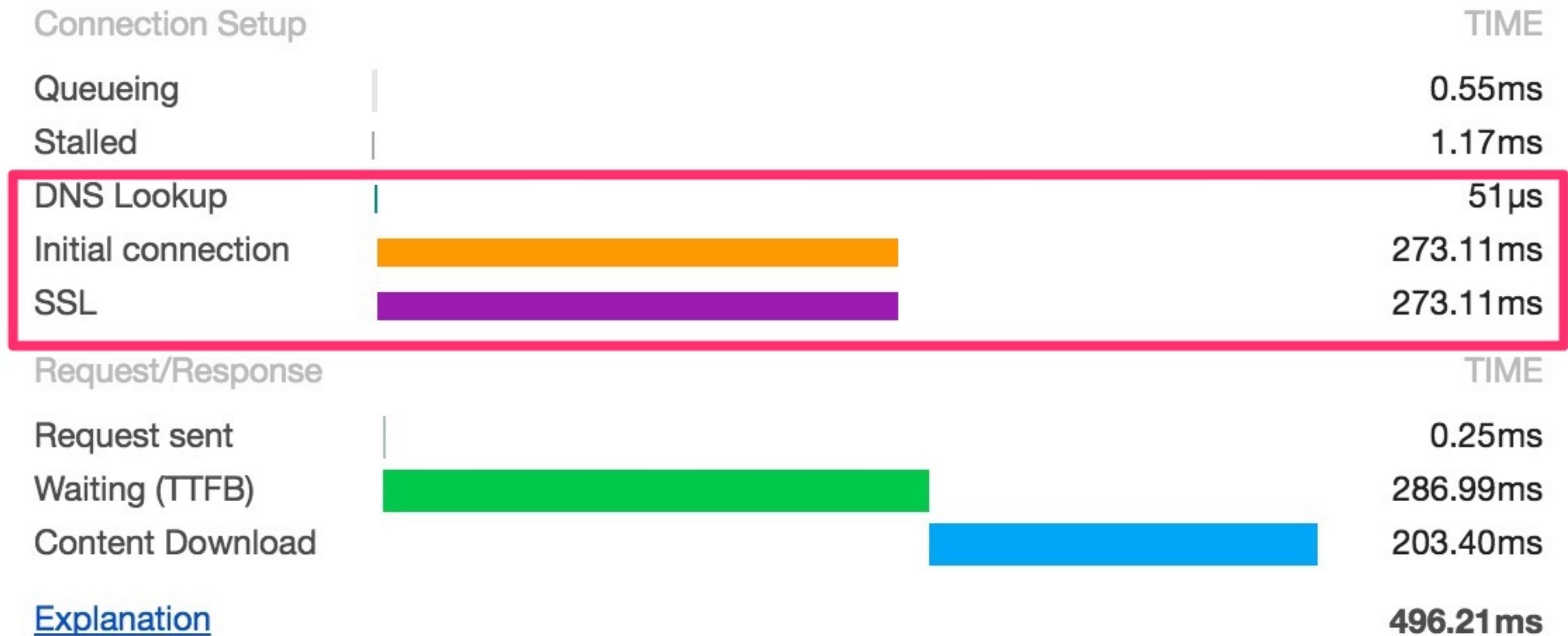
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script.js	200	script	simple....	151KB					
10JVD_humAd5zP2yrFqw...	200	font	simple....	18.9KB					



web font



```
<head>
  <link rel="dns-prefetch" href="https://fonts.gstatic.com">
  <!-- other <link> -->
  <link rel="stylesheet" href="styles.css" />
</head>
```



```
<head>
  <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
  <!-- other <link> -->
  <link rel="stylesheet" href="styles.css" />
</head>
```

# dns-prefetch vs preconnect

```
<head>
  <link
    rel="dns-prefetch preconnect"
    href="https://fonts.gstatic.com"
    crossorigin
  >
</head>
```

preload

[https://fonts.gstatic.com/\[...\]/7CjHW5spxoeN3Vs.woff2](https://fonts.gstatic.com/[...]/7CjHW5spxoeN3Vs.woff2)

```
<head>
  <link rel="preload"
        as="font"
        href="https://fonts.gstatic.com/[...]/7CjHW5spxoeN3Vs.woff2"
        crossorigin
  />
</head>
<!-- other &lt;link&gt; --&gt;
&lt;link rel="stylesheet" href="styles.css" /&gt;</pre>
```

Name	St...	Type	Initiator	Size	Waterfall	2.00 s	4.00 s	6.00 s
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10JVD_humAd5zP2yrFqw...	200	font	simple....	18.9KB				
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530	200	jpeg	simple....	31.5KB				
540	200	jpeg	simple....	23.2KB				
script.js	200	script	simple....	151KB				

**prefetch**

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## Shopping Basket

	Price	Quantity
 <b>super cute cat 1</b> catship24 Only 10 left in stock.  Prime <input checked="" type="checkbox"/> This will be a gift <a href="#">Learn more</a> <a href="#">Delete</a>   <a href="#">Save for later</a>	<b>EUR 14,99</b> (EUR 14,99 / count)	<input type="button" value="1"/>

**Subtotal (1 item): EUR 14,99**

**Subtotal (1 item): EUR 14,99**

This order contains a gift

[Proceed to Checkout](#)

or

[Sign in](#) to turn on 1-Click ordering.

[Estimate VAT, Postage and Packaging](#) ▾

```
<head>
  <link
    rel="prefetch"
    href="/checkout.js"
    as="script"
  >
  <link
    rel="prefetch"
    href="/checkout.css"
    as="style"
  >
</head>
```

prerender



### Value pack! Party hats, uni colour, 12x10 pcs

by Unbekannt

**EUR 5.79** ✓*Prime*

Get it by **Tomorrow, Apr 19**

More buying choices

**EUR 2.59** (5 new offers)

★★★★★ ▾ 7



### 20 Partyhüte Partyhütchen glänzend Geburtstagshüte Kindergeburtstag

by Partyklar

**EUR 6.99** + EUR 3.59 delivery

★★★★★ ▾ 7



### Hologram Foil Party Hats – Pack of 20, Assorted Colours With Elastic Hat-Band

by Partydeko

**EUR 4.30** + EUR 3.00 delivery

More buying choices

**EUR 4.30** (3 new offers)

★★★★★ ▾ 5



### Set of 20 Cones, Small, Assorted Colors

by Günthart

**EUR 5.30** + EUR 4.90 delivery

★★★★★ ▾ 5

~25 mm

50 mm

```
function prerender(url, as) {  
  const link = document.createElement('link');  
  link.rel = 'prerender';  
  link.href = url;  
  link.as = as;  
  document.querySelector('head').insertBefore(link, null);  
}
```