

NIELS LEENHEER

**TURTLES
ALL THE WAY
DOWN**



Fronteers 2018

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FRONTEERS

11TH FRONTEERS CONFERENCE AMSTERDAM 4-5 OCTOBER 2018

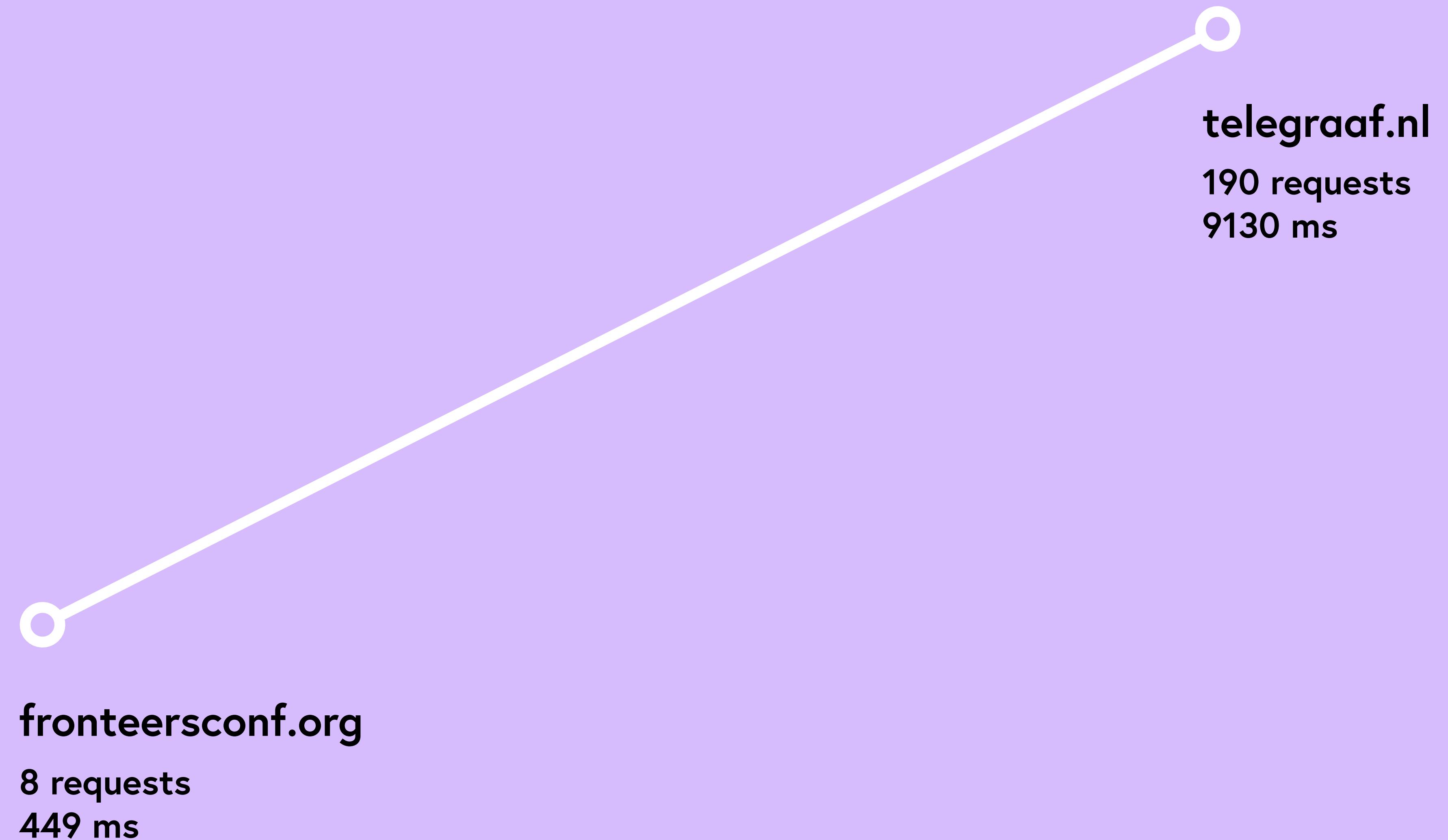
Fronteers Conference 2018: Amsterdam, 4-5 October

Fronteers Conference is one of Europe's premiere conferences on front-end web development, organised in Amsterdam yearly since 2008.

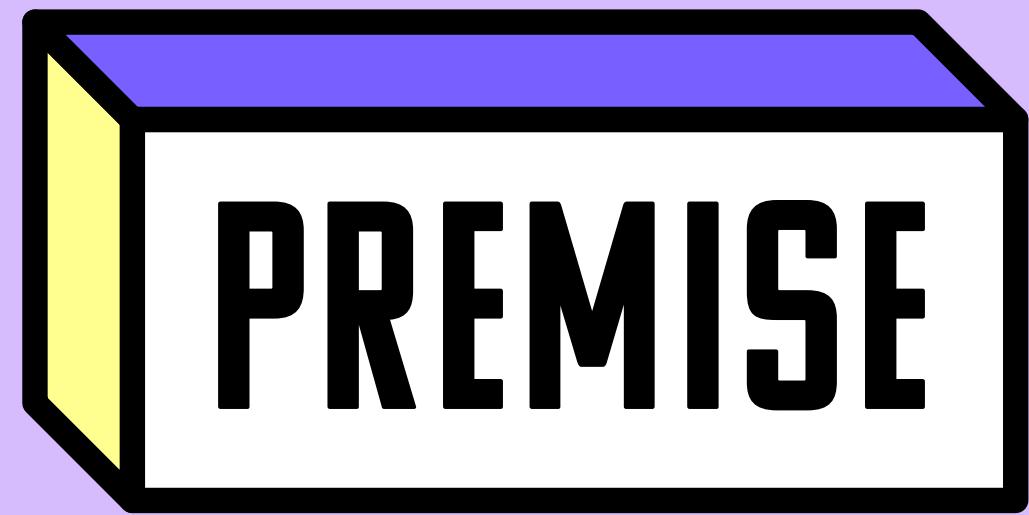




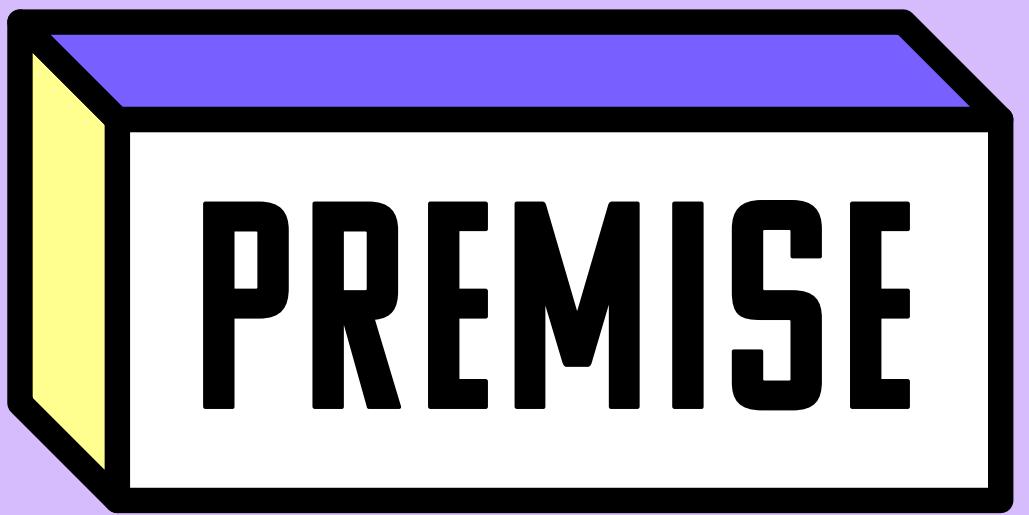
HOW TO DETERMINE WHAT TO OPTIMISE?



**websites that make more
requests are slower**



external images require requests



**we can make a website
faster by inlining images**



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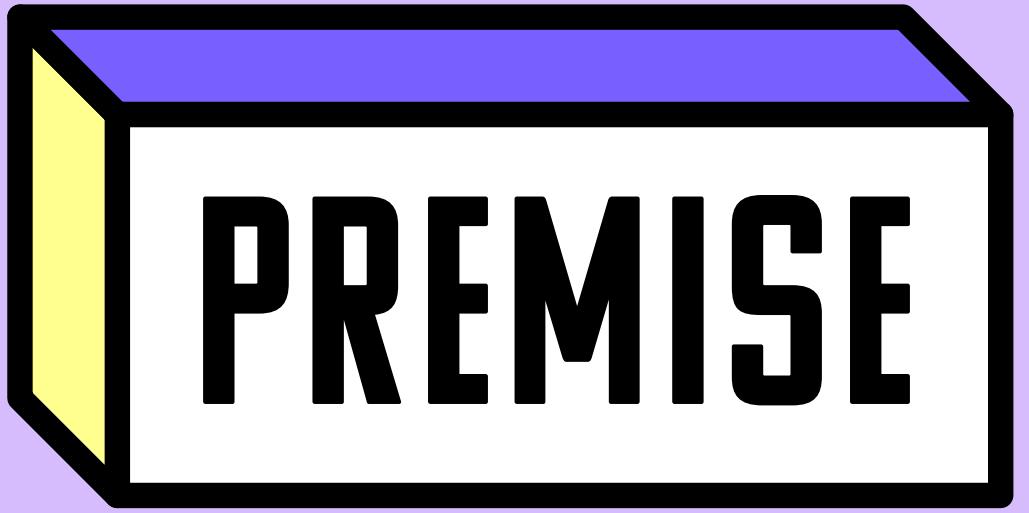




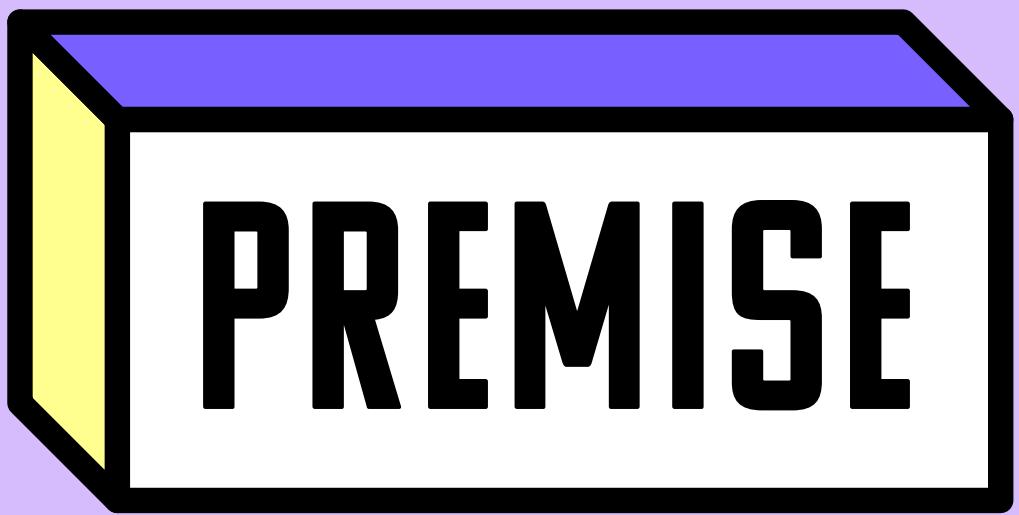


HOW TO INLINE IMAGES

**an image is just a grid
of coloured pixels**



tables are grids



**we can inline
images using tables**



ATTEMPT #1

table with images

```
<table>
  <tr>
    <td>...</td>           × 169.830
  </tr>
</table>
```

ATTEMPT #1

table with images

```
<table>
  <tr>
    <td></td>  × 169.830
  </tr>
</table>
```

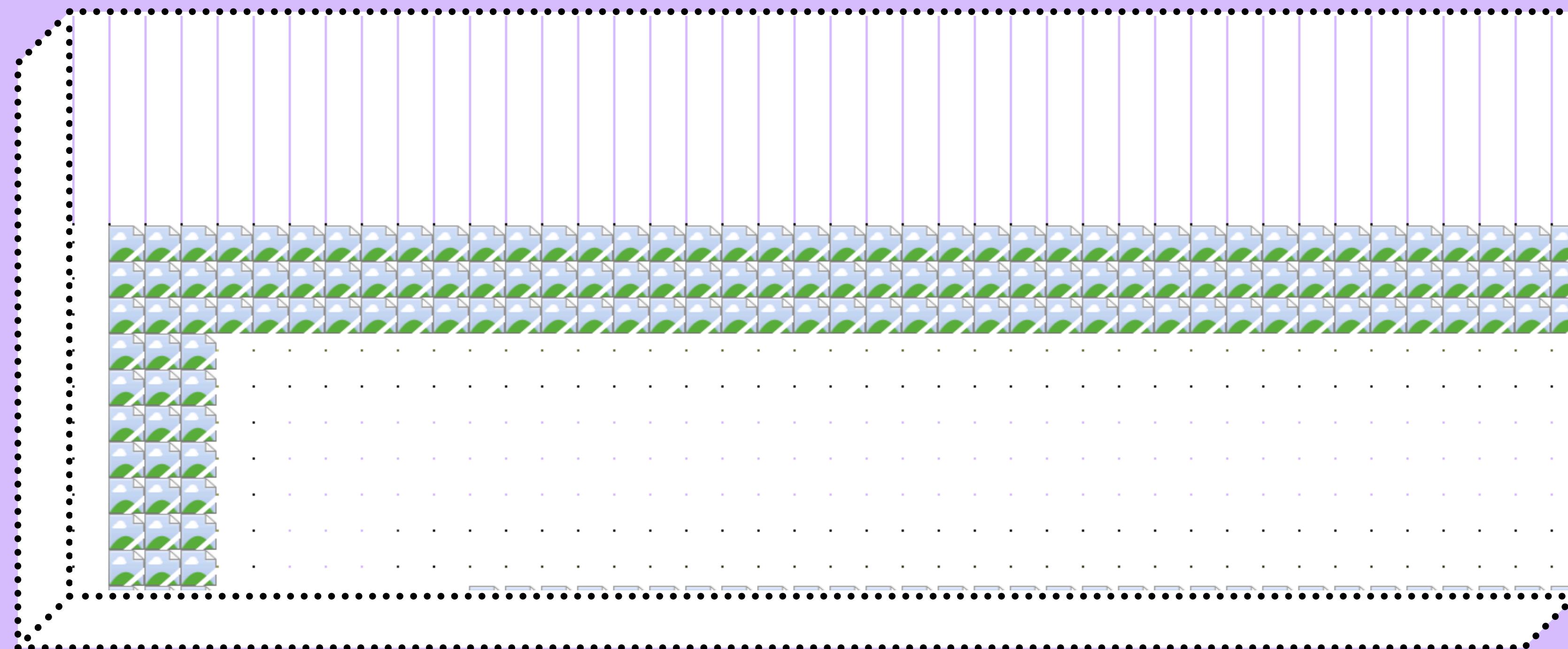
ATTEMPT #1

table with images

size
5.5 MB

requests
454

loaded
66 sec



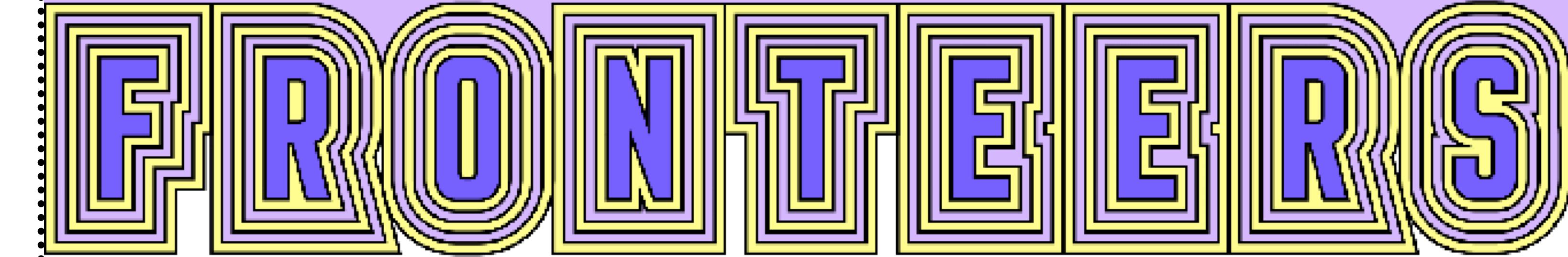
ATTEMPT #2

table with spacer image

```
<table>
  <tr>
    <td style="background-color:#7469FB"> x 169.830
      
    </td>
  </tr>
</table>
```

ATTEMPT #2

table with spacer image

size	7.9 MB
requests	1
loaded	60 sec
	 The logo consists of the word "FRONTEERS" in a bold, sans-serif font. Each letter is outlined in yellow and filled with purple. The letters are arranged in a staggered, overlapping manner. Below the main title, the text "11TH FRONTEERS CONFERENCE AMSTERDAM 4-5 OCTOBER 2018" is written in a smaller, black, sans-serif font. 11TH FRONTEERS CONFERENCE AMSTERDAM 4-5 OCTOBER 2018

ATTEMPT #3

table with data urls

```
<table>
  <tr>
    <td style="background-color:#7469FB">
      

<frameset rows="...">
  <frameset cols="...">
    <frame src="7469FB.html">  × 169.830
  </frameset>
</frameset>
```

ATTEMPT #6

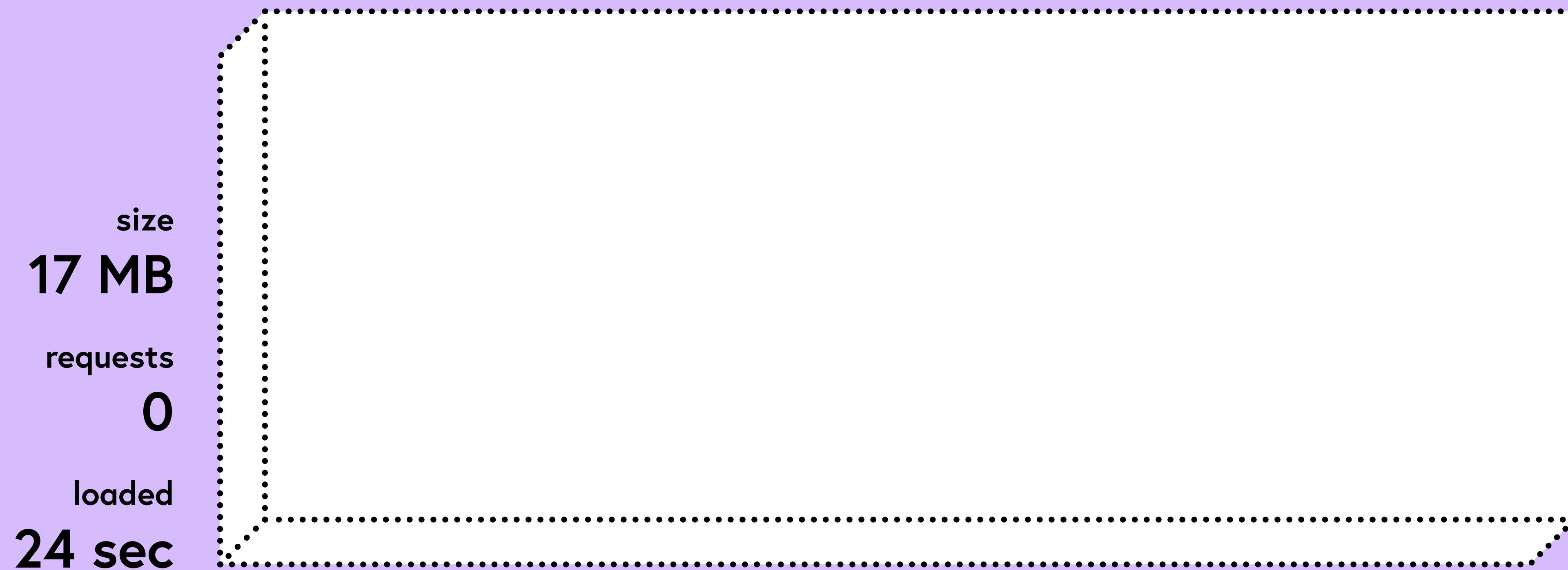
frames with data urls

```
<iframe src="...">

<frameset rows="...">
  <frameset cols="...">
    <frame src="data:text/html;base64,R0lGODlhAQABAI" style="width: 100%; height: 100%;">x 169.8
  </frameset>
</frameset>
```

ATTEMPT #6

frames with data urls





MODERN CSS APPROACH

ATTEMPT #7

absolute positioning

```
<div>
  <div id=x32y49></div>  × 169.830
</div>
```

```
#x32y49 {
  position: absolute; top: 49px; left: 32px;
  background-color: #7469FB;
}
```

ATTEMPT #7

absolute positioning



ATTEMPT #8

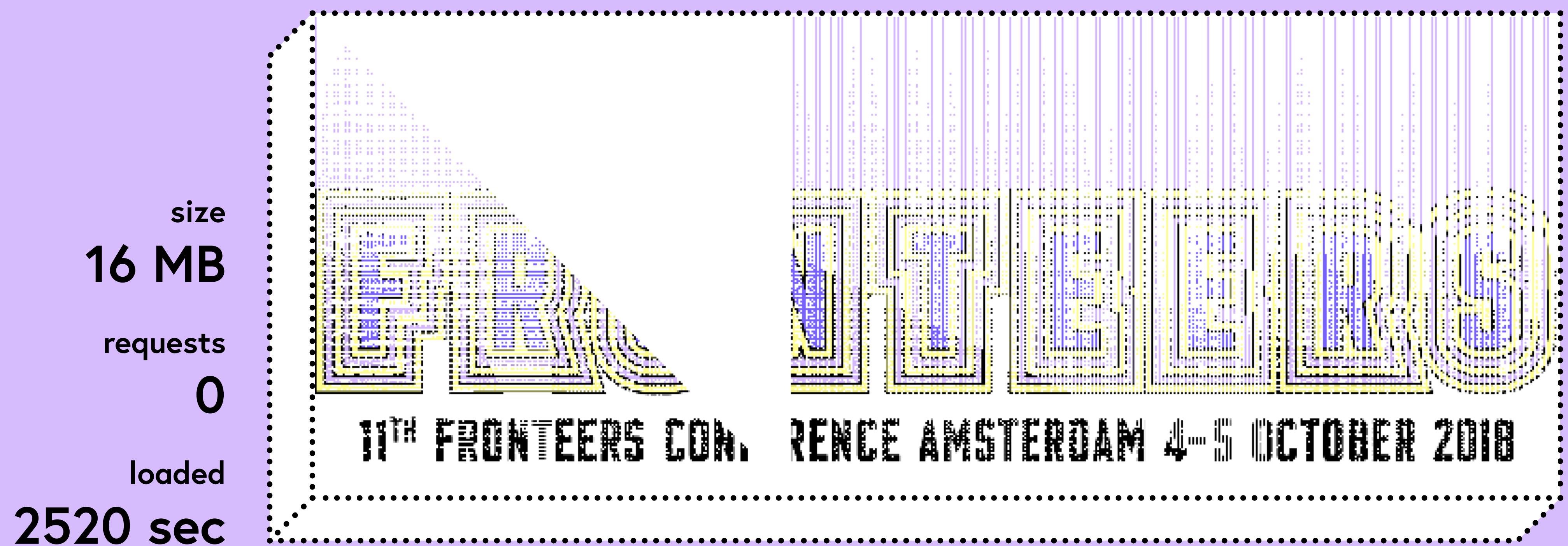
grid and nth-child pseudo selector

```
<div>
  <div></div>  × 169.830
</div>
```

```
div > div:nth-child(1650)  {
  grid-area: 50 / 33 / 51 / 34;
  background-color: #7469FB;
}
```

ATTEMPT #8

grid and nth-child pseudo selector



ATTEMPT #9

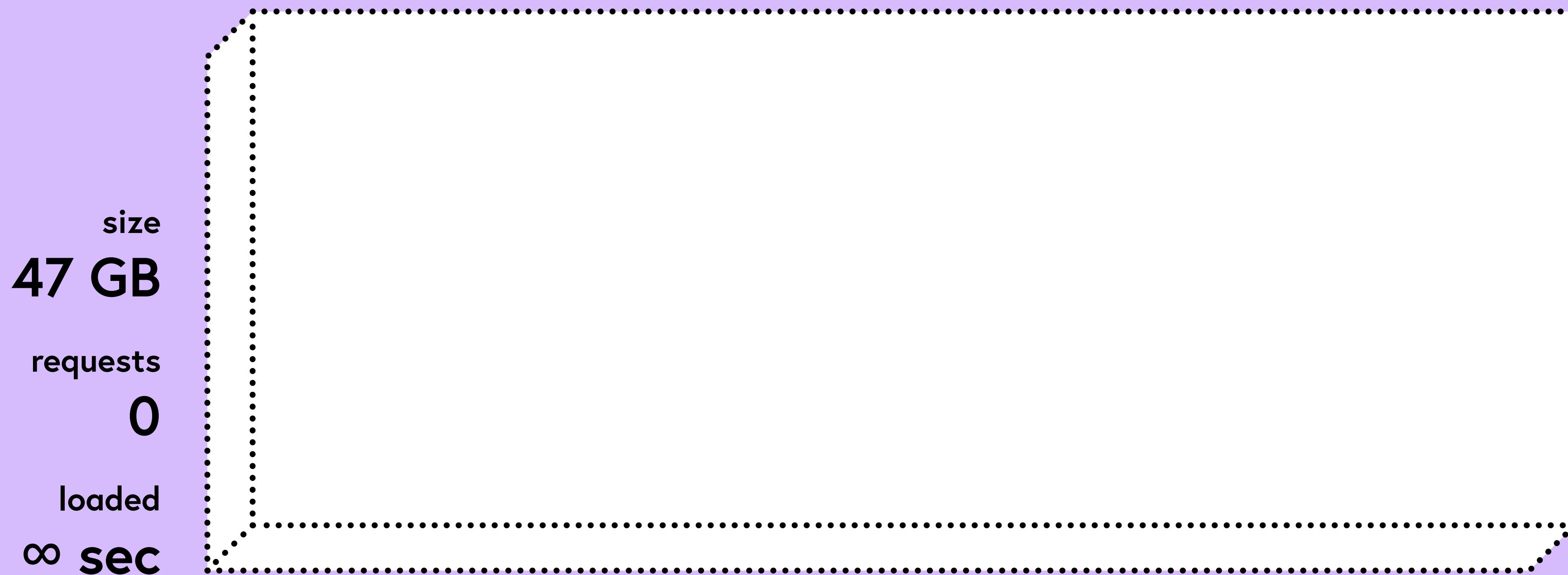
pseudo-elements

```
#image::after {  
    position: absolute; top: 49px; left: 32px;  
    background-color: #7469FB;  
}
```

```
#image::after::after { ... }  
#image::after::after::after { ... }  
#image::after::after::after::after { ... }
```

ATTEMPT #9

pseudo-elements



ATTEMPT #10

run length encoding

```
<div>
  <div id=c0></div> × only 6.670
</div>
```

```
#c0 {
  top: 0px; left: 0px; width: 666px; height: 91px;
  background: #d8baff;
}
```

ATTEMPT #10

run length encoding



ATTEMPT #3

size
20 MB

loaded
228 sec



ATTEMPT #10

size
418 KB

loaded
0.1 sec



KEY TAKEAWAYS

5 KEY TAKEAWAYS

html4 is better than html5

5 KEY TAKEAWAYS

use <div>'s with id's for everything

5 KEY TAKEAWAYS

the maximum length of a string is
9.007.199.254.740.991 characters

5 KEY TAKEAWAYS

w3schools is way better and
has more info than mdn

5 KEY TAKEAWAYS

**don't use 169.830 <frame>'s
in one <frameset>**

THANK YOU!