

IN YOUR FONT-FACE

In January, a foreigner who wanted to visit the north east was refused entry because visa officials ruled it "not credible" that anyone would want to spend a week in Gateshead.

The Telegraph

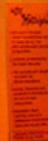
The New

Metroland

FREE ENTRY

BELIEVABLE VALUE
AZTECS
ADVENTURE
LAND
Whirling
WALTZER
IS NOW INCLUDED IN THE
GOLDEN PASS
IS NOW INCLUDED IN THE
ALL DAY PASS AND THE
GOLDEN PASS
SINGLE TICKETS ARE AVAILABLE FOR THE TWO ATTRACTIONS

FREE ENTRY



Choose Screen Format

Format:

Lo-Res	320x256
Med-Res	640x256
Interlace	320x512
Hi-Res	640x512

Number of
Colors:

2	16
4	32
8	64

Overscan: **Off** Std Max

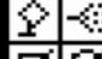
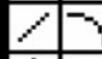
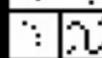
NTSC **PAL**

Page Size: Screen **Keep same**

Cancel

Ok

DeluxePaint Color



Fonts were bitmaps :(





Font war!

Pew pew!
Lasers!



Apple



Adobe





Font war!

Microsoft



Apple

Pew paw!
Lasers!



Adobe





Font war!

Microsoft



Apple

Pew paw!
Lasers!



Adobe

Bang!
Destroyed!



DeluxePaint Matte



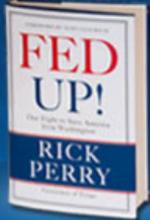
Aww!

Love!





CHANGE
WE CAN BELIEVE IN



Are you ★★★★★★
FED UP?
GET THE BOOK & JOIN
GOV. PERRY'S FIGHT
against
**WASHINGTON'S
OVERREACH**

[Click Here to
JOIN THE FIGHT](#)



**SURREY
POLICE**
*With you, making
Surrey safer*

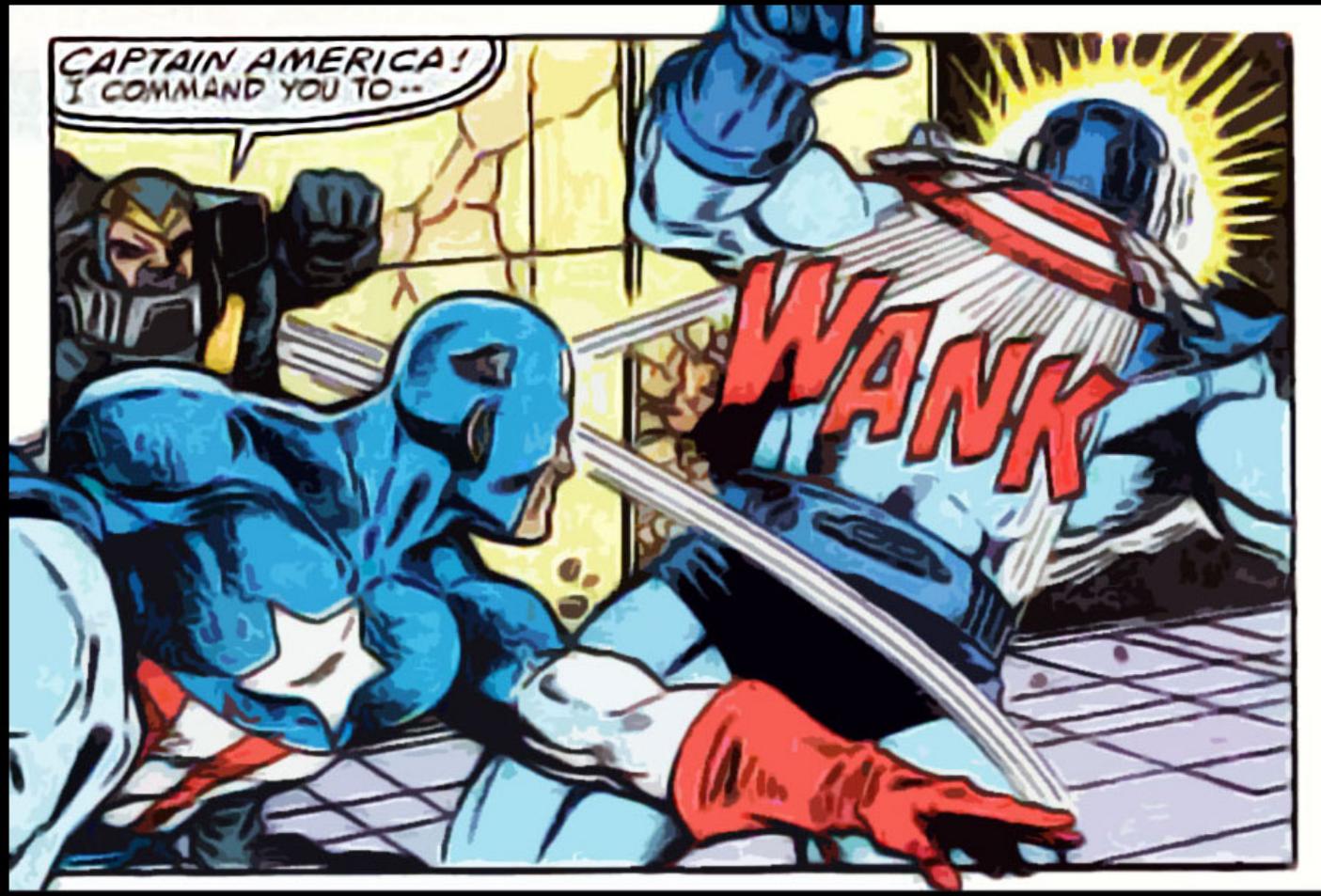
IF YOU HAVE BEEN THE SUBJECT
OF A RAPE OR SERIOUS SEXUAL
ASSAULT AND WOULD LIKE TO
MAKE A DECISION ABOUT WHAT
YOU CAN DO

SURREY POLICE HAVE

CAPTAIN AMERICA!
I COMMAND YOU TO--



CAPTAIN AMERICA!
I COMMAND YOU TO--



FONTS & THE WEB

Arial

Times New Roman

Trebuchet MS

Comic Sans

Verdana

Impact

Tahoma

Georgia

Courier New

FONTS & THE WEB

```
<head>  
  <link rel="FONTDEF" src="some-font.pfr">  
</head>  
  
<body>  
  <font face="some font">Yey fonts!</font>  
</body>
```

- ➔ Supported in Netscape Navigator 4
- ➔ IE via a plugin
- ➔ 1994 - 17 years ago

Activist Arena

Browser Boulevard

► Browser News

Earn Net.fame

Plug-in Plaza

Stats Station

Mecklermedia

Internet.com

Magazines

Internet World
Traffic Shows

Advertise

Products

Services

TUESDAY, SEPTEMBER 2nd, 1997

NET.FAME: Sergio Jimenez

Embedded Fonts In Microsoft IE4pr2

By: Dave Garaffa (dgaraffa@browserwatch.com)

Sergio Jimenez gets this next net.fame for sending in this note on a new feature found in Microsoft Internet Explorer v4.0pr2.

Embedded Fonts In IE 4.0pr2?

Sergio writes, "Hi Dave, I just found out that Microsoft has included embedded font technology in IE4pr2. Microsoft's implementation of this is great. This is a blessing for all web designers. I think you will like the news with our readers."

<http://www.browserwatch.com/newsletters/ie4pr2.html>

IE4 WEBFONTS

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot');  
}  
  
p {  
  font-family: 'some-font';  
}
```

CSS2 WEB FONTS

```
@font-face {  
  font-family: 'some-font';  
  src: url(some-font.pfr) format(truedoc),  
       url(some-font.ttf) format(truetype);  
}  
  
p {  
  font-family: 'some-font';  
}
```

CSS2 WEB FONTS

```
@font-face  
font-family: 'some-font'  
src: url('some-font.woff') format('woff'),  
url('some-font.woff2') format('woff2')  
}  
  
font-family: 'some-font'
```

CSS3 WEB FONTS

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg');  
}
```

SUPPORT

Which bits do browsers support?

BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url( some-font.eot ) format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg');  
}
```

Downloaded by:



BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg');  
}
```

Downloaded by:



Supported by:



BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg');  
}
```

Downloaded by:



Supported by:



BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg');  
}
```

Downloaded by:

iOS < 4.2

Supported by:



BROWSER SUPPORT

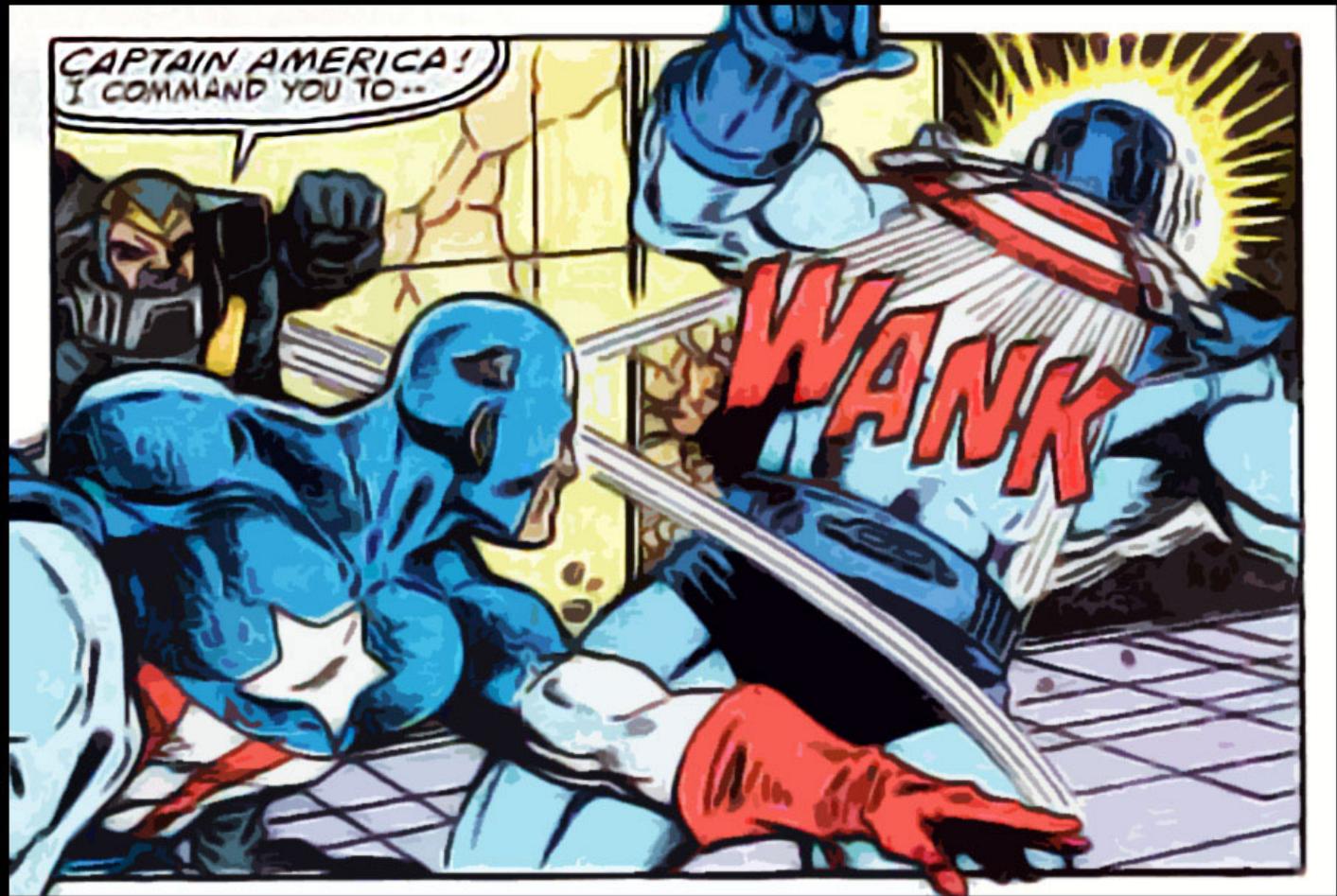
```
@font-face {  
  font-family: 'some-font';  
  src: url( some-font.eot') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg ');  
}
```

Downloaded by:



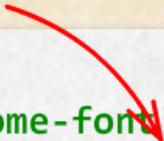
some-font.eot%20format('embedded-opentype'),%20url('some-font.woff') format('woff'),%20url('some-font.ttf') format('truetype'),%20url('some-font.svg#some-font') format('svg');

CAPTAIN AMERICA!
I COMMAND YOU TO--



BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot?') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg');  
}
```



BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.woff?') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg ');  
}
```

Downloaded by:



BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('2948759395884839484...7539392093972838539.eot?') form  
       url('2948759395884839484...7539392093972838539.woff') form  
       url('data:image/png;base64,sTUpiDPoINTLEsSStuPIDpoiNTlesST  
       url('2948759395884839484...7539392093972838539.svg') forma  
}
```

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6



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Maximum URL length is 2,083 characters in Internet Explorer

[View products that this article applies to.](#)

This article was previously published under Q208427

[Expand all](#) | [Collapse all](#)

SUMMARY

Microsoft Internet Explorer has a maximum uniform resource locator (URL) length of 2,083 characters. Internet Explorer also has a maximum path length of 2,048 characters. This limit applies to both HTTP requests and GET requests.

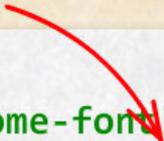
From the same page, the HTTP requests can be limited to a maximum of 2,048 characters, when the content of the request is a file name.

Internet Explorer also has a maximum path length of 2,048 characters. This limit applies to both HTTP requests and GET requests.

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BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot#') format('embedded-opentype'),  
       url('some-font.woff') format('woff'),  
       url('some-font.ttf') format('truetype'),  
       url('some-font.svg#some-font') format('svg');  
}
```



BROWSER SUPPORT

```
@font-face {  
  font-family: 'Sonic 3';  
  src: url('sega-sonic3.woff2') format('woff2'),  
       url('sega-sonic3.woff') format('woff'),  
       url('sega-sonic3.ttf') format('truetype'),  
       url('sega-sonic3.svg#sonic3') format('svg');  
}
```



Compatibility View

Sometimes the website you're visiting doesn't look right. It shows up as a jumble of out-of-place menus, images, and text boxes. What's going on? One possible explanation: The site might have been designed for an earlier version of Internet Explorer. If Internet Explorer recognizes that the webpage isn't compatible, you'll see the Compatibility View button on the Address bar. Try clicking it.



The Compatibility view button

In Compatibility View, websites will be displayed as if you were viewing them in a previous version of Internet Explorer, which will often correct display problems. You don't need to click the button for a site after you've done it once—the next time you visit the site, Internet Explorer 8 will automatically show it in Compatibility View. (If you ever want to go back to browsing with Internet Explorer 8 on that site, just click the Compatibility View button again.)

Make the most of your browser

- Getting started with Internet Explorer 8
- What's Internet Explorer 8 all about?
- Security and privacy: What's new?
- How to use Compatibility View

BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url( some-font.eot# ) format('embedded-opentype'),  
        url('some-font.woff') format('woff'),  
        url('some-font.ttf') format('truetype'),  
        url('some-font.svg#some-font') format('svg');  
}
```

wut?

BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot#') format('embedded_opentype'),  
  url('some-font.woff') format('woff'),  
  url('some-font.ttf') format('truetype'),  
  url('some-font.svg#some font') format('svg');  
}
```

BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot');  
  src: url('some-font.eot#') format('embedded-opentype'),  
        url('some-font.woff') format('woff'),  
        url('some-font.ttf')  format('truetype'),  
        url('some-font.svg#some-font') format('svg');  
}
```

BROWSER SUPPORT

```
@font-face {  
  font-family: 'some-font';  
  src: url('some-font.eot');  
  src: url('some-font.eot#') format('embedded-opentype'),  
        url('some-font.woff') format('woff'),  
        url('some-font.ttf') format('truetype'),  
        url('some-font.svg#some-font') format('svg');  
}
```

IE 9 compatibility mode

Internet Explorer 6-8

Internet Explorer 9

Firefox/Chrome/Opera

Safari/Android/iOS

Firefox

iOS < 4.2

➔ Serve with header - Access-Control-Allow-Origin: *

DOWNLOADING

How browsers download fonts

DOWNLOADING

```
<p class="test1">Hello!</p>
```

```
<p>
```

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean id justo felis. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Cras faucibus dui in leo euismod scelerisque. In eu nunc eu tortor euismod faucibus sit amet tincidunt nibh. etc...

```
</p>
```

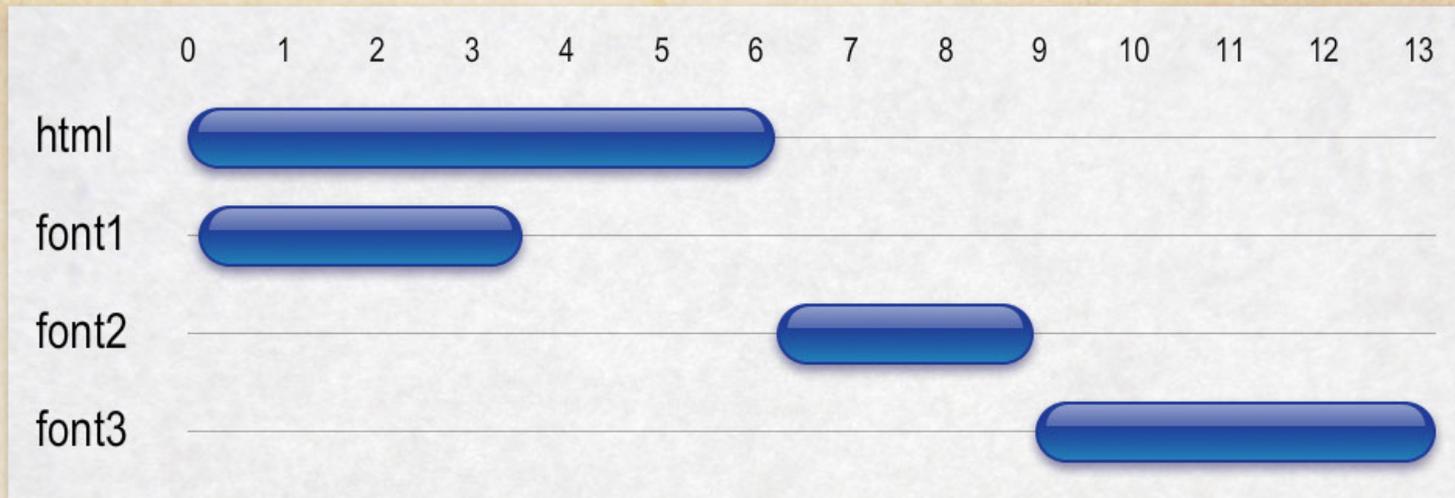
```
<p class="test2">Ab</p>
```

```
.test1 {  
  font-family: font1, sans-serif;  
}
```

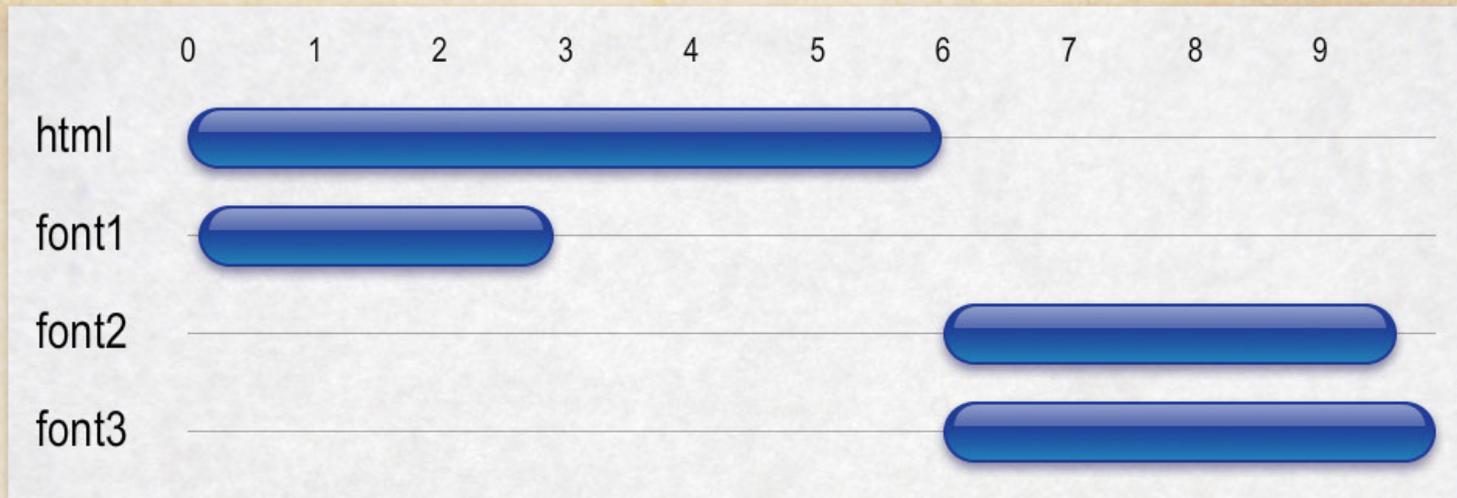
```
.test2 {  
  font-family: font2, font3, sans-serif;  
}
```

only 'A' only 'b'

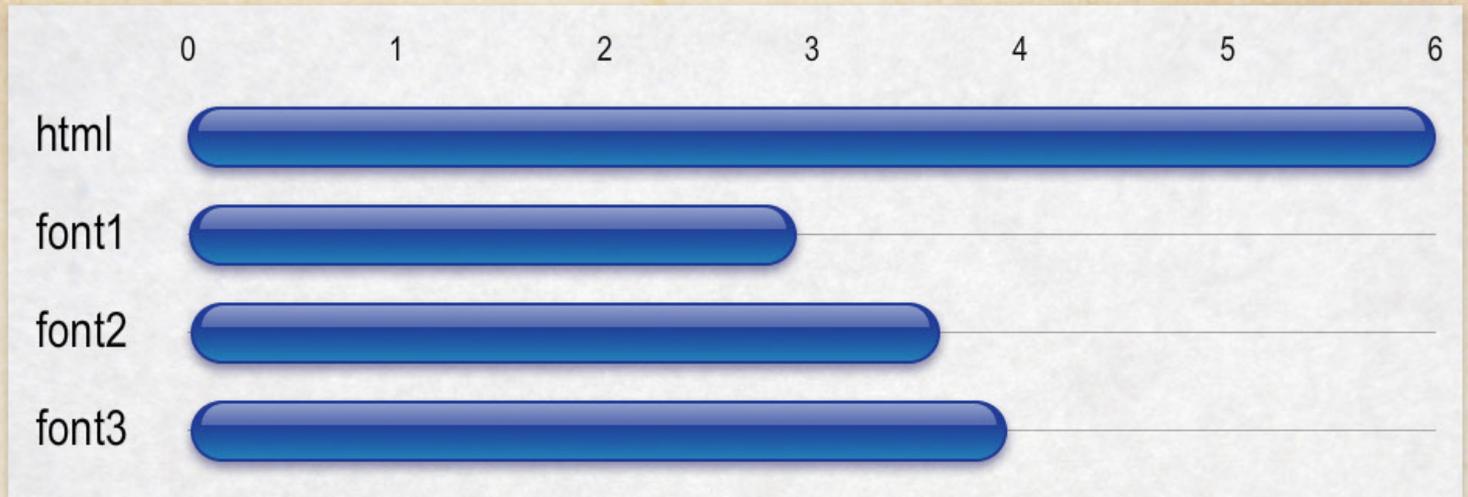
CHROME / SAFARI



FIREFOX



INTERNET EXPLORER

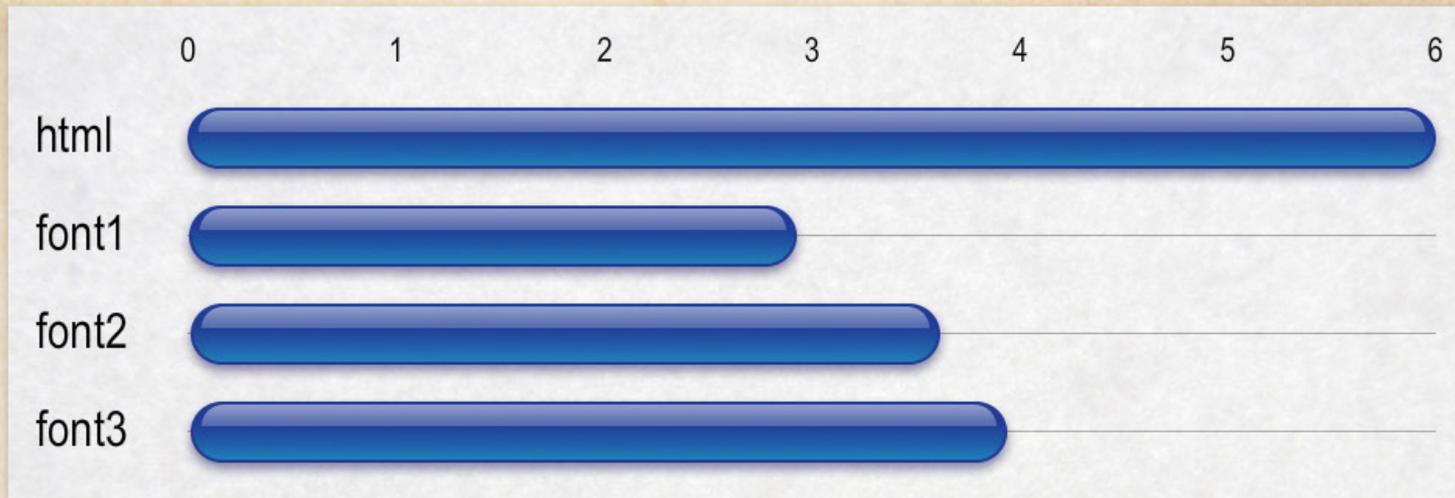




	2	3	4	5	6
htm	[Progress bar]				
font1	[Progress bar]				
font2	[Progress bar]				
font3	[Progress bar]				

CHEAT

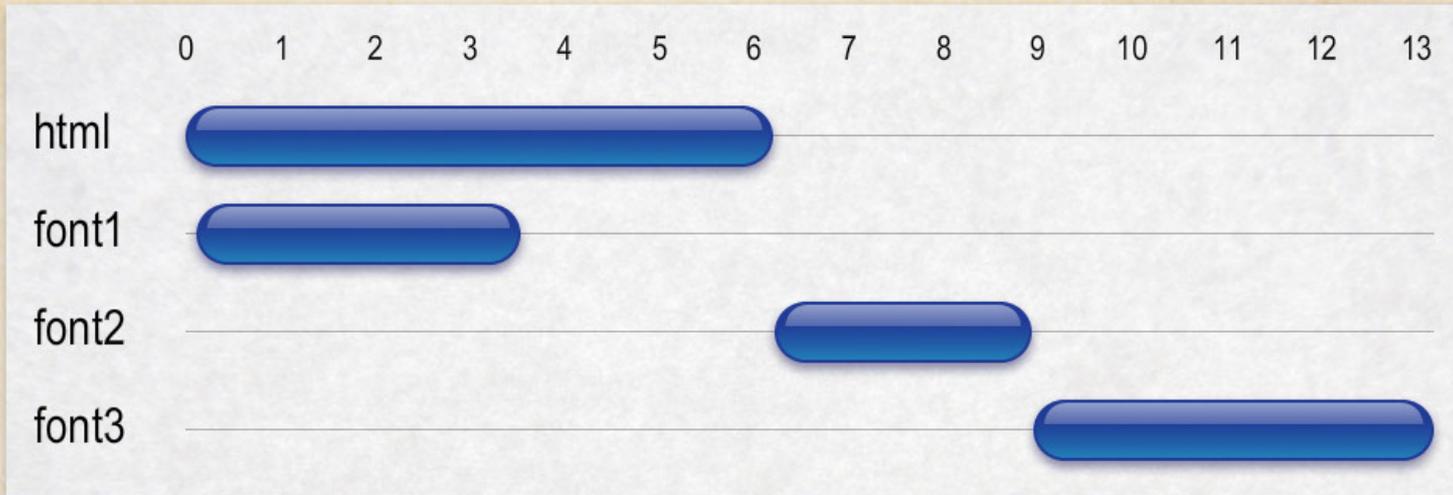
INTERNET EXPLORER 8



- ➔ IE downloads the fonts when it sees @font-face - whether you use them or not
- ➔ Try to avoid sending @font-face for fonts that aren't used
- ➔ The EOT must be cachable
- ➔ Fixed in IE9

THE WINNER?

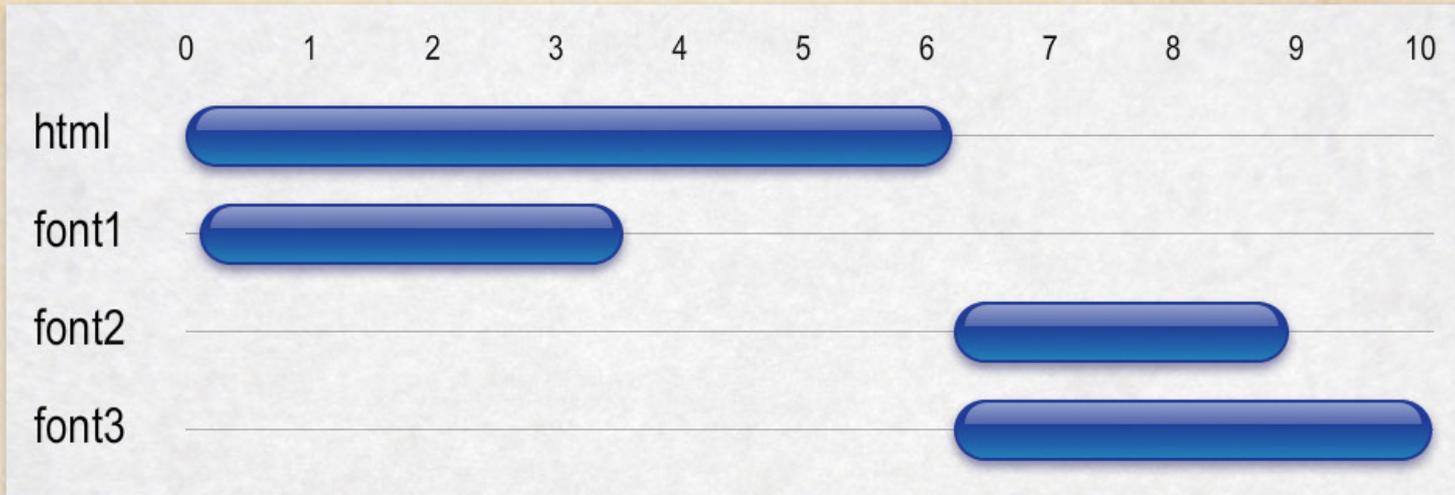
➔ Chrome / Safari



```
@font-face {  
  font-family: 'font2';  
  src: /* etc etc */;  
}
```

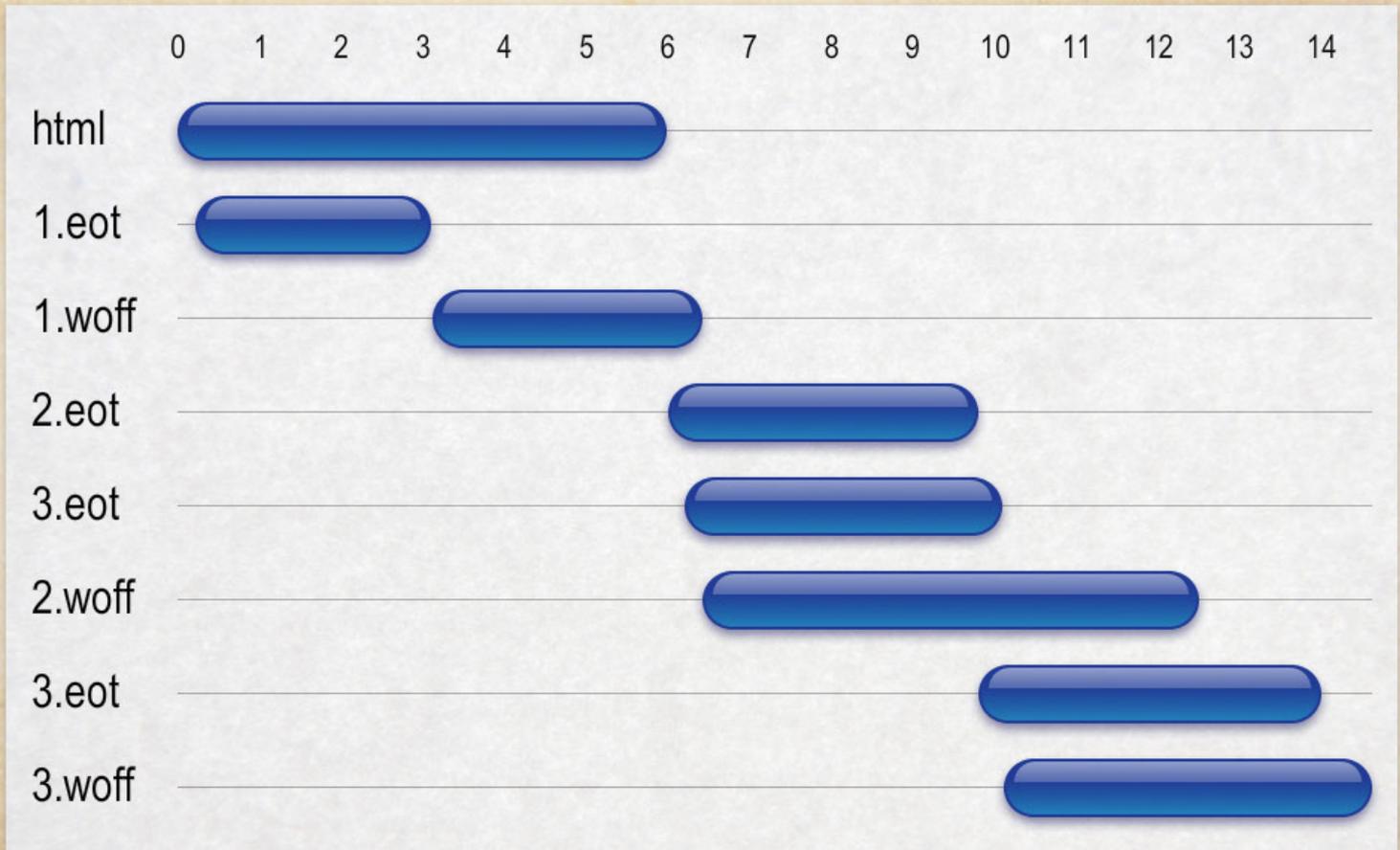
THE WINNER?

➔ Chrome / Safari



```
@font-face {  
  font-family: 'font2';  
  src: /* etc etc */;  
  unicode-range: U+41;  
}
```

OPERA 11 MAC



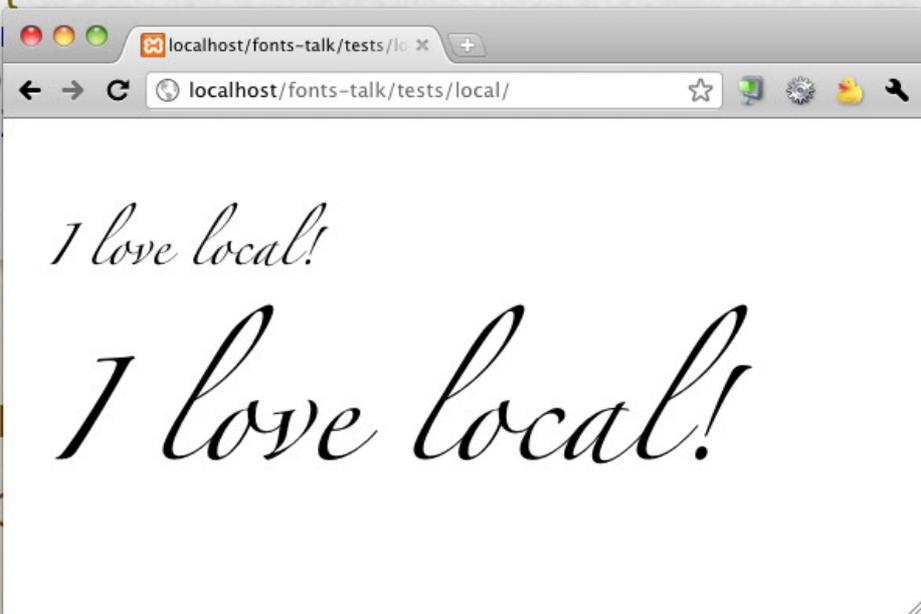
LOCAL

```
@font-face {  
  font-family: 'some font';  
  src: local('some-font'),  
       url('some-font.woff') format('woff'),  
       /* etc etc */;  
}
```

- ➔ Fails on IE6-8 & Android
- ➔ Buggy in Chrome/mac
- ➔ Unreliable

LOCAL

```
@font-face {  
  font-family: local;  
  src: local('');  
  url('');  
  /*  
}
```



- ➔ Fails on
- ➔ Buggy in
- ➔ Unreliab

OPTIMISING...

...font files

OPTIMISING FONTS

➔ Ubuntu regular ttf: 352k

Home

Most Downloaded

Newly Added

@font-face Kits

@font-face Generator

@FONT-FACE GENERATOR

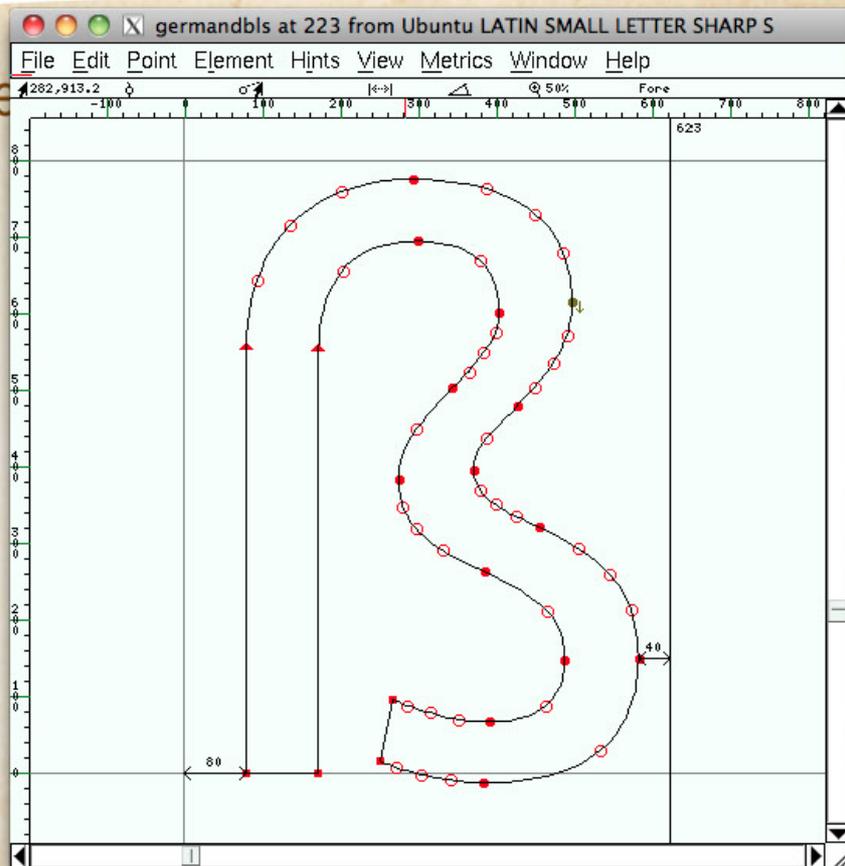
Usage: Click the "Add Fonts" button, check the agreement and download your fonts. If you need more fine-grain control, choose the **Expert** option.

Note: The Generator is processor intensive. Please be kind and don't generate more than a few at a time.
Thank!

@font-face Kit Generator

OPTIMISING FONTS

→ Ubuntu re



OPTIMISING FONTS

Ubuntu Ubuntu-Regular.ttf (UnicodeBmp)

File Edit Element Hints Encoding View Metrics CID MM Window Help

126 (0x007e) U+007E asciitilde TILDE

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B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_	`	a	b	
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c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v	w	x	y	z	{		}	~						
¥	!	§	¨	©	ª	«	¬	-	®	-	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿	À	Á	Â	Ã	Ä	Å	
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ç	è	é	ê	ë	ì	í	î	ï	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ	À	Á	Â	Ã	Ä	Å	Ç	ç	
ç	è	é	ê	ë	ì	í	î	ï	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ	À	Á	Â	Ã	Ä	Å	Ç	ç	
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OPTIMISING FONTS

- ➔ Ubuntu regular ttf: 352k
- ➔ Common glyphs only: 90k

USING FALLBACKS

```
@font-face {
  font-family: 'ubuntu';
  src: /* etc etc */;
  unicode-range: U+21-7e;
}

@font-face {
  font-family: 'ubuntu extended';
  src: /* etc etc */;
  unicode-range: U+a1-fb04;
}

h1 {
  font-family: 'ubuntu', 'ubuntu extended', sans-serif;
}

html {
  font-family: sans-serif, stix;
}
```

BAD FALLBACKS

font-family: font1, sans-serif

font-family: font2, font1, sans-serif

font-family: sans-serif, stix

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cΩ

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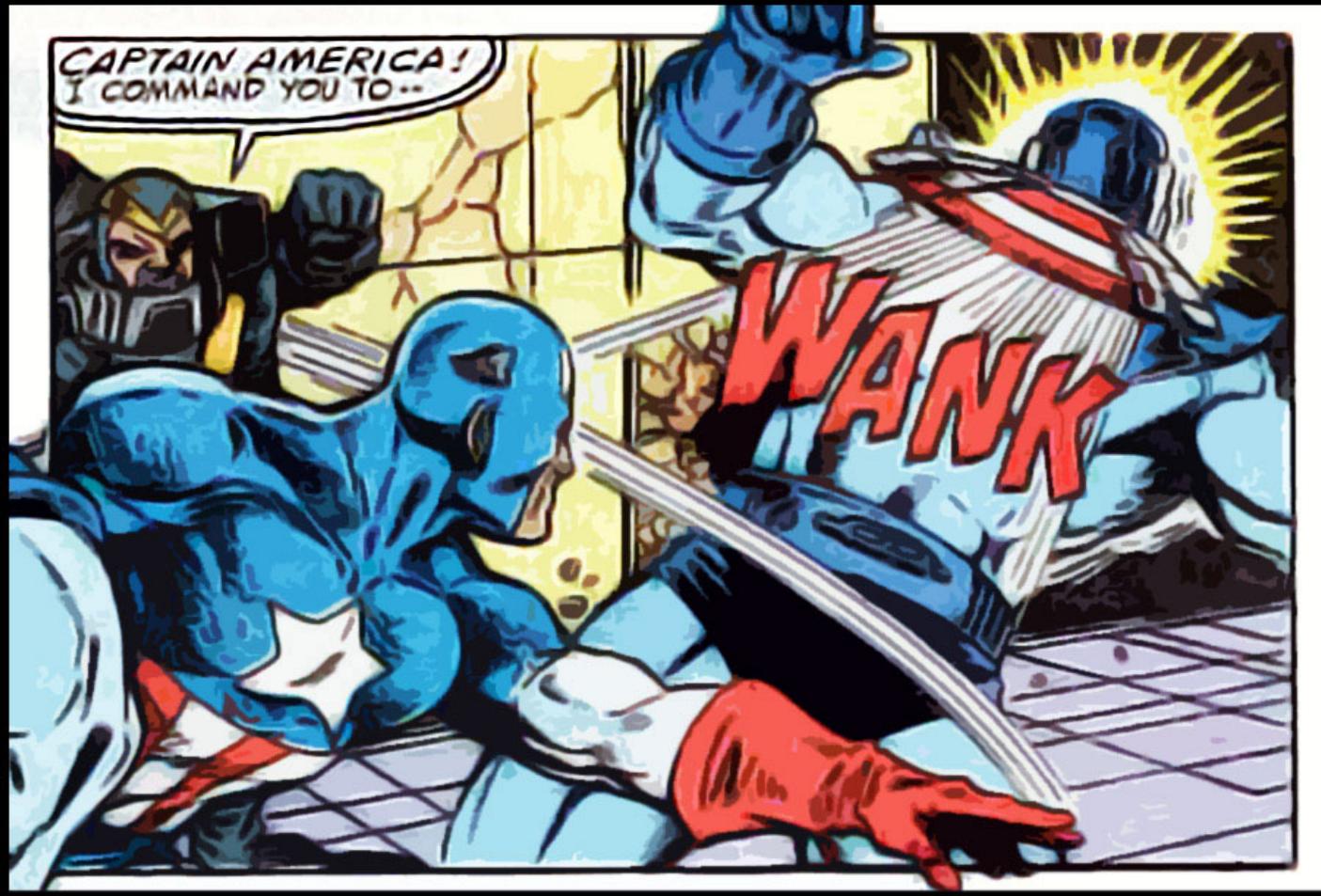
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CAPTAIN AMERICA!
I COMMAND YOU TO--



PULP FICTION

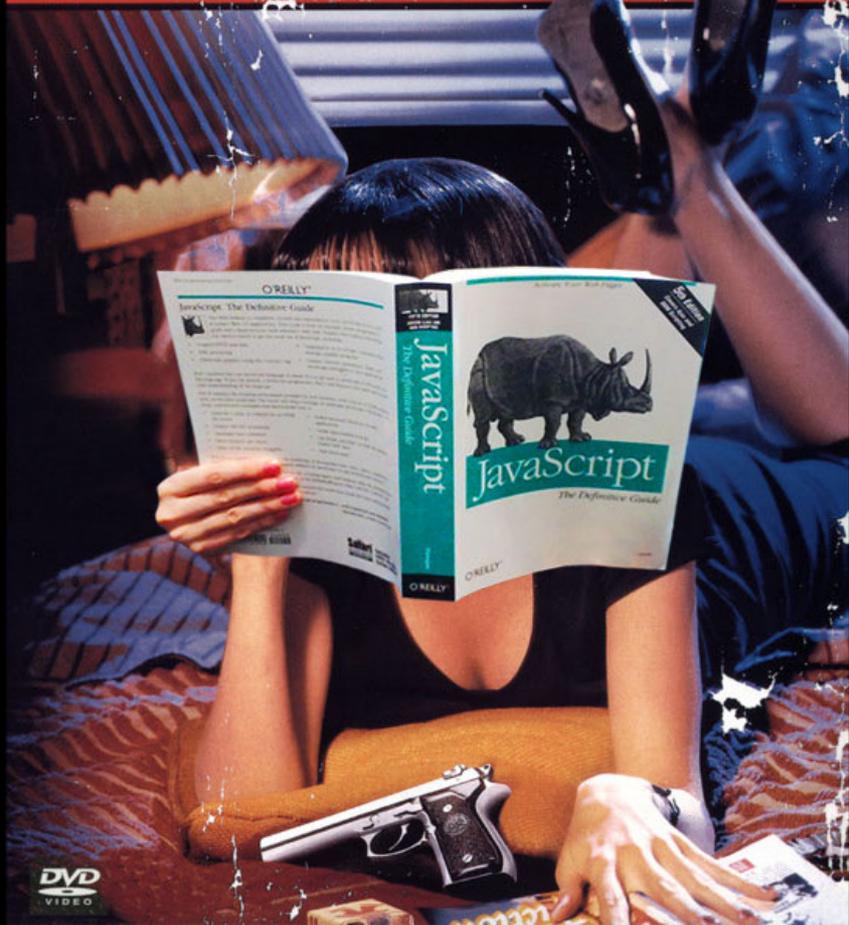
A FILM BY QUENTIN TARANTINO / PRODUCED BY LAWRENCE BENDER



DVD
VIDEO

PULP FICTION

A FILM BY QUENTIN TARANTINO/PRODUCED BY LAWRENCE BENDER



DVD
VIDEO

OPTIMISING FONTS

- ➔ Ubuntu regular ttf: 352k
- ➔ Common glyphs only: 90k
- ➔ Plus gzip: 29k
- ➔ Minus hinting: 18k

hinting

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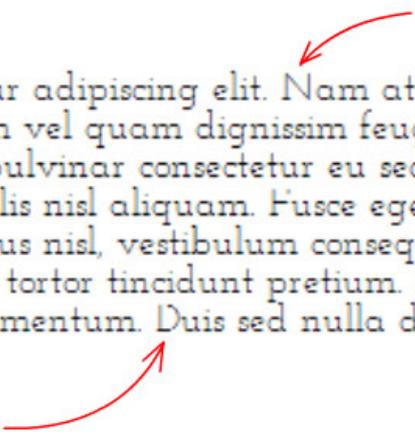
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OPTIMISING FONTS

- ➔ Ubuntu regular ttf: 352k
- ➔ Common glyphs only: 90k
- ➔ Plus gzip: 29k
- ➔ Minus hinting: 18k
- ➔ Only remove hinting if fonts will only be displayed large
- ➔ Always test in Windows XP, font antialiasing off

Article 5 - Distribution

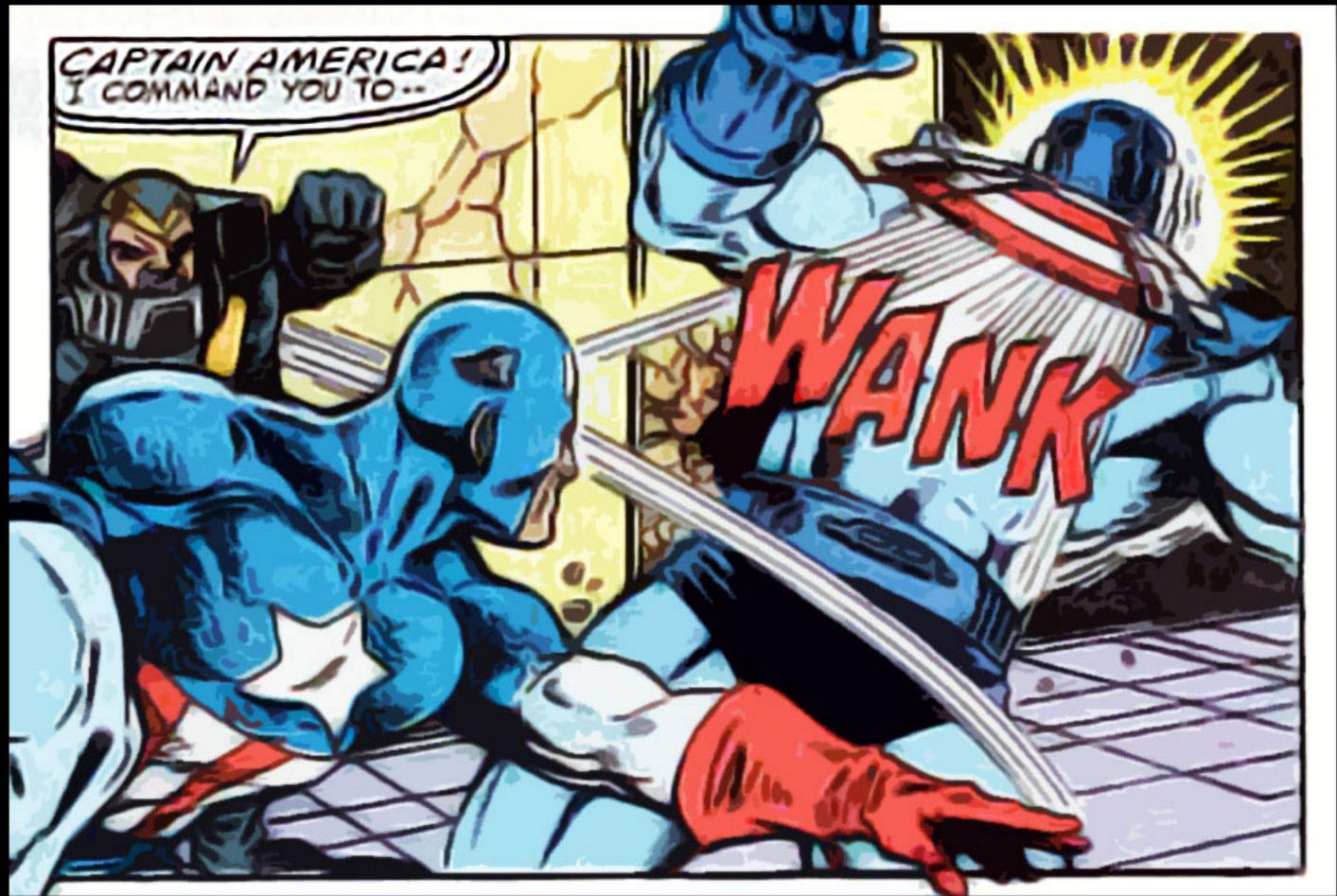
2.1 Subject to the provisions in subsections 2.3 and 2.4, the licensee is permitted to lend, lease, or otherwise transferring the Font Software to a third party, provided that such transfer is prohibited. In addition, transferring the Font Software as a component or sub-component of other products, e.g., electronic documents or sublicenses, to a third party or parties is also strictly prohibited.

2.2 Subject to the provisions in subsections 2.3 and 2.4 of this agreement, the following is prohibited: modifying the Font Software, merging it with other software programs, decompiling it, using modules from said software for one's own developments or using technical solutions contained in the Font Software for purposes other than operation on the licensee's own computers.

2.3 Exceptions to subsection 2.2 are only permitted provided they are essential to obtaining the necessary information for establishing interoperability of the software with other programs, and provided this information is neither published nor accessible in any other form and if the licensee is unable to obtain said information from Linotype GmbH or its authorized distributors or appointed agents. In this case, the licensee shall inform Linotype GmbH in writing as to which portions of the software the licensee is decompiling.

2.4 Except with respect to the conversion of the Font Software into the EOT format if the licensee is intended to be installed as a font resource on a Non-Commercial device and only if such use is in compliance with the other terms of this Agreement, the licensee shall not be permitted to convert the Font Software into any other format, including but not limited to, the EOT format, for the purpose of making such conversion available to other users.

CAPTAIN AMERICA!
I COMMAND YOU TO--



FOUNDRIES

Why they hate you

Industrial Design

Not art 

Computer program

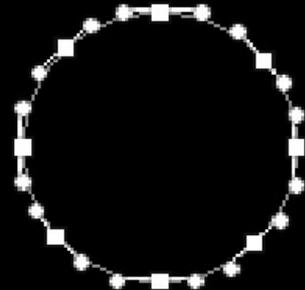
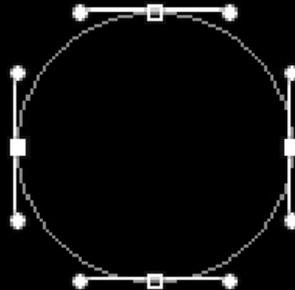


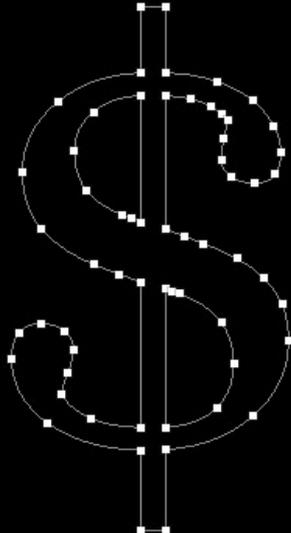
Industrial Design

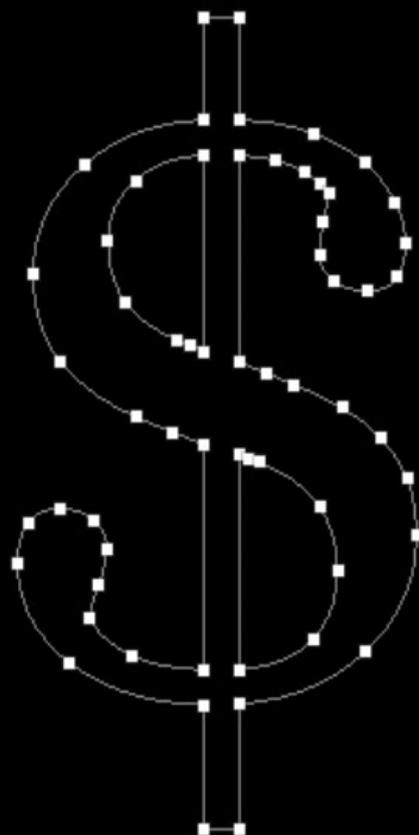
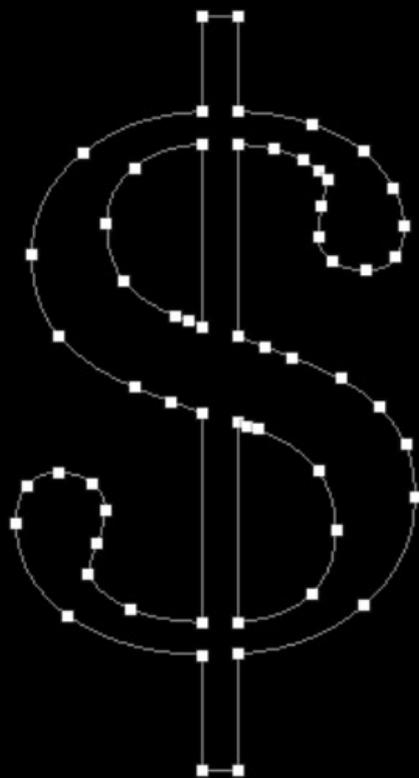
Computer program

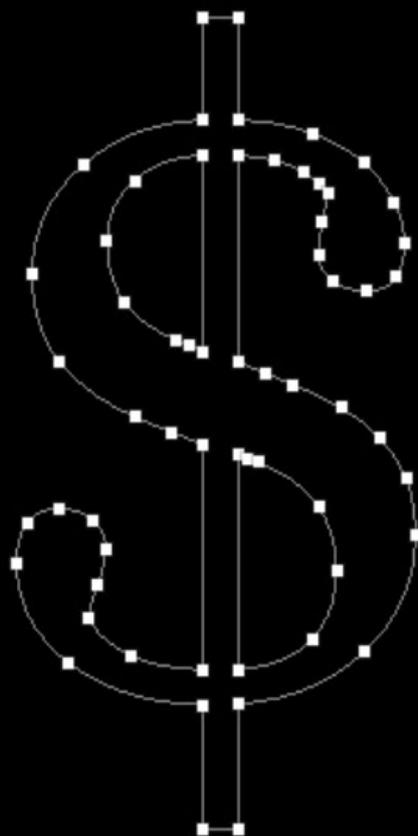
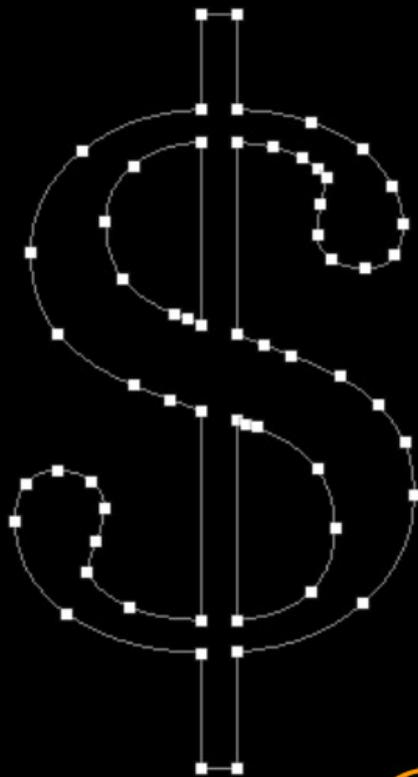


Industrial Design

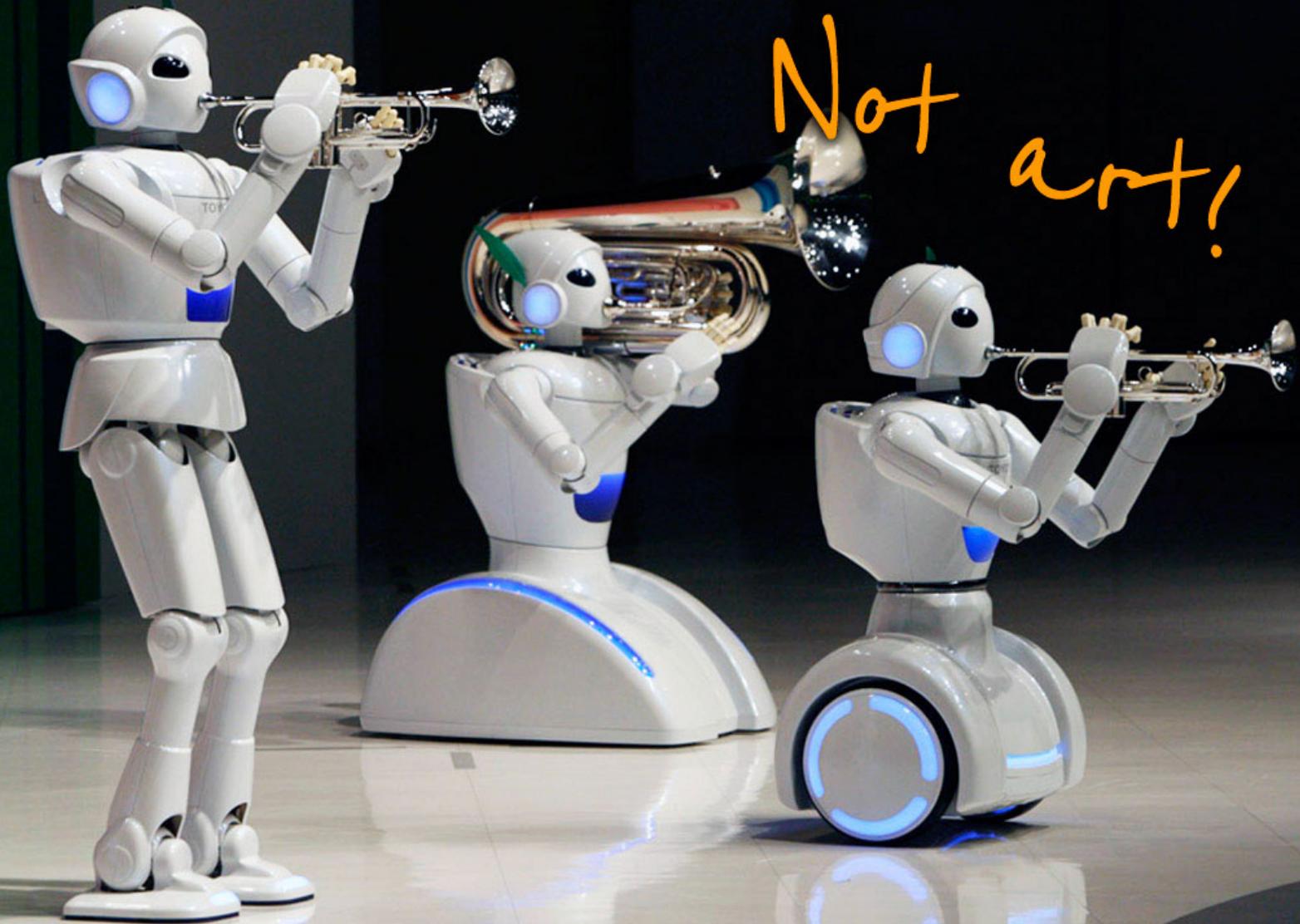








Scaled by 1%



Not
art!

Article 5 - Distribution

2.1 Subject to the provisions in subsections 2.3 and 2.4, the licensee is permitted to lend, lease, or otherwise transferring the Font Software to a third party, provided that such transfer is not for a commercial purpose and the recipient of the Font Software agrees to be bound by the terms of this Agreement. In addition, transferring the Font Software as a component or sub-component of other products, e.g., electronic documents or sublicenses, to a third party or parties is also strictly prohibited.

2.2 Subject to the provisions in subsections 2.3 and 2.4 of this agreement, the following is prohibited: modifying the Font Software, merging it with other software programs, decompiling it, using modules from said software for one's own developments or using technical solutions contained in the Font Software for purposes other than operation on the licensee's own computers.

2.3 Exceptions to subsection 2.2 are only permitted provided they are essential to obtaining the necessary information for establishing interoperability of the software with other programs, and provided this information is neither published nor accessible in any other form and if the licensee is unable to obtain said information from Linotype GmbH or its authorized distributors or appointed agents. In this case, the licensee shall inform Linotype GmbH in writing as to which portions of the software the licensee is decompiling.

2.4 Except with respect to the conversion of the Font Software into the EOT format if the licensee is intended to be installed as a font resource on a Non-Commercial device and only if such use is in compliance with the other terms of this Agreement, the licensee shall not be permitted to convert the Font Software into any other format, including but not limited to, the EOT format, for the purpose of making such conversion available to other users, or to make such conversion available to other users in any other manner.

RENDERING...

...while downloading

THE TEST

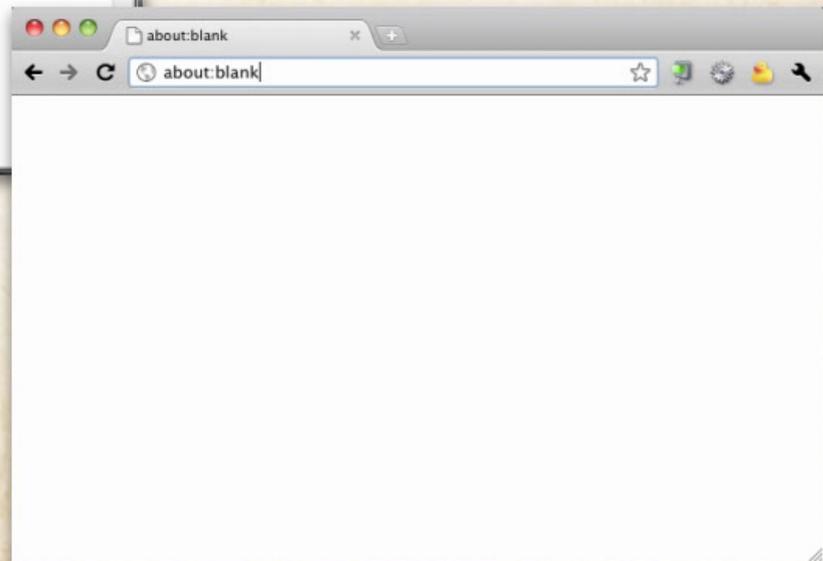
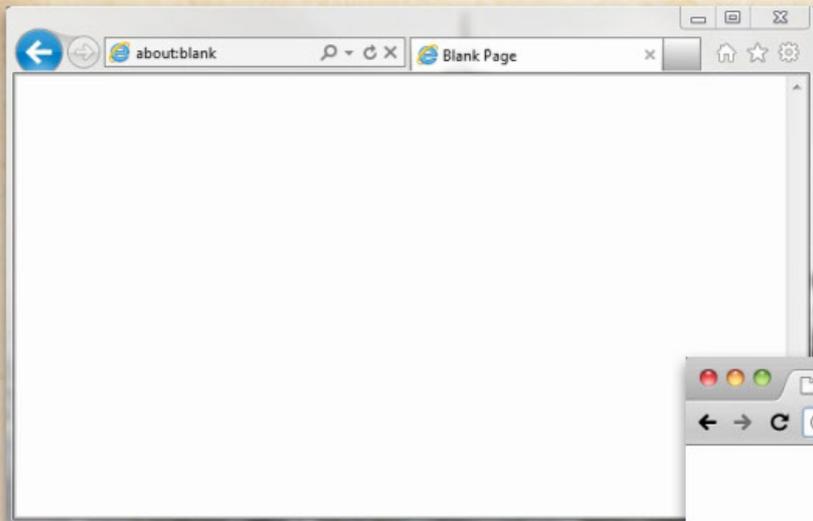
```
<head>
  <script>document.documentElement.className += ' js';</script>
  <link rel="stylesheet" href="style.css"/>
</head>
<body>
  <p class="josefin">I'm a webfont!</p>
  <p>I'm not!</p>
  <p class="cartoonist">I'm a webfont too!</p>
</body>
```

I'm a webfont!

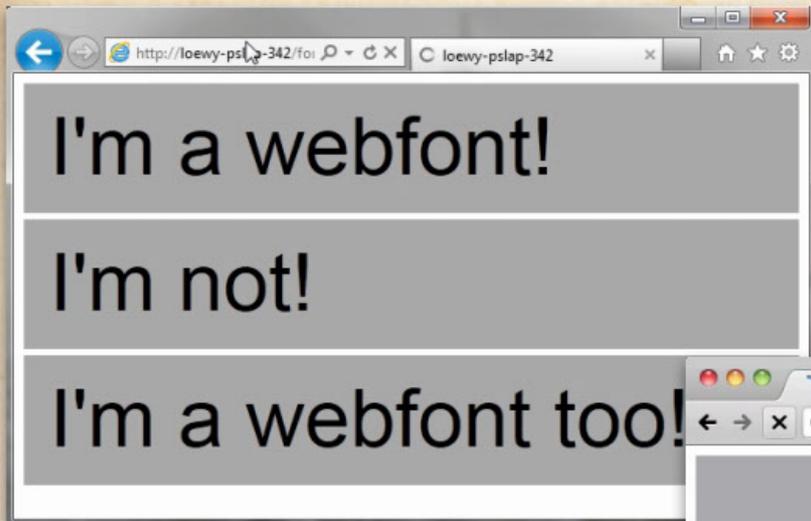
I'm not!

I'm a webfont too!

IE9/OPERA VS WEBKIT



IE9/OPERA VS WEBKIT



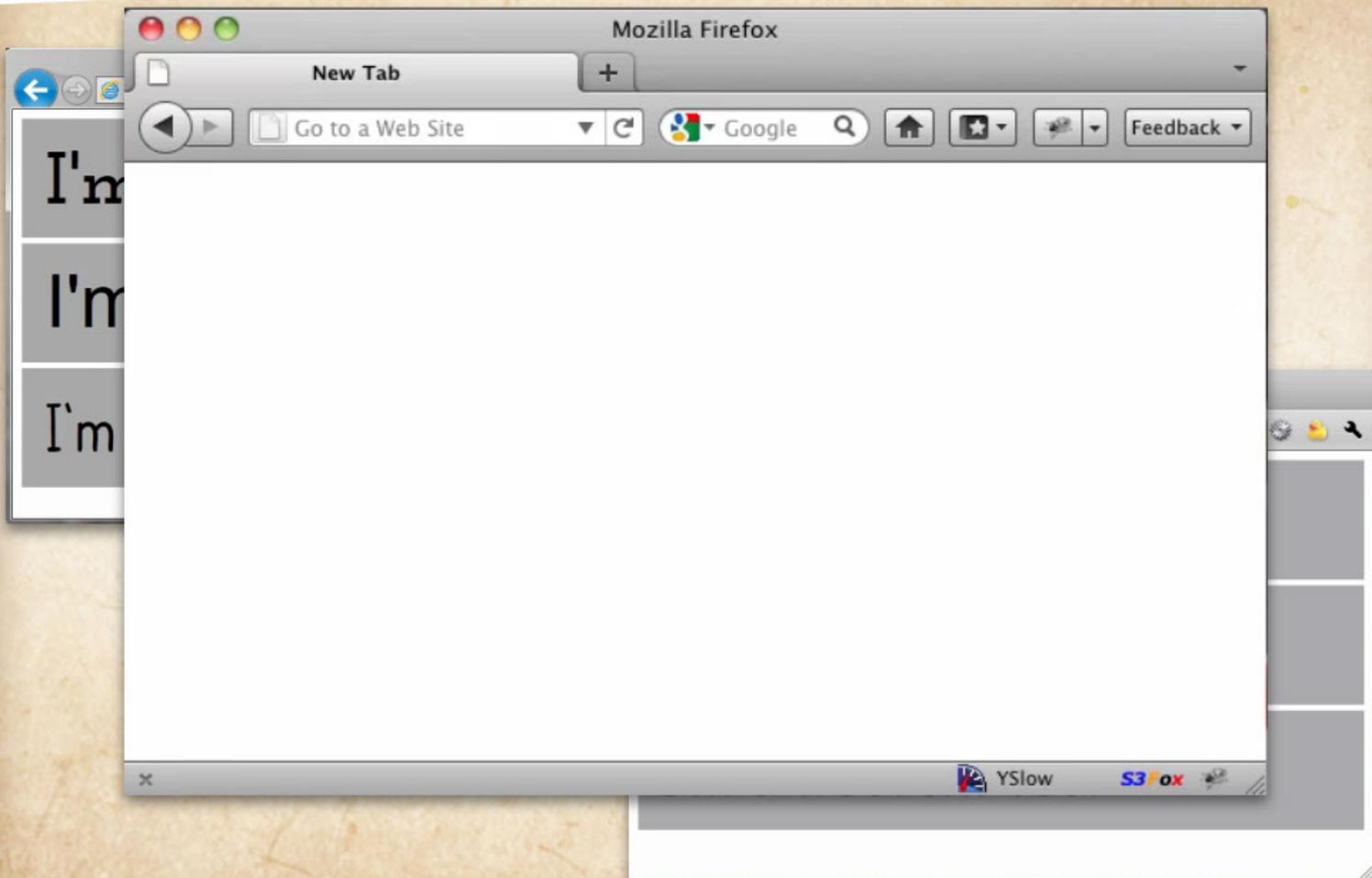
IE9/OPERA VS WEBKIT



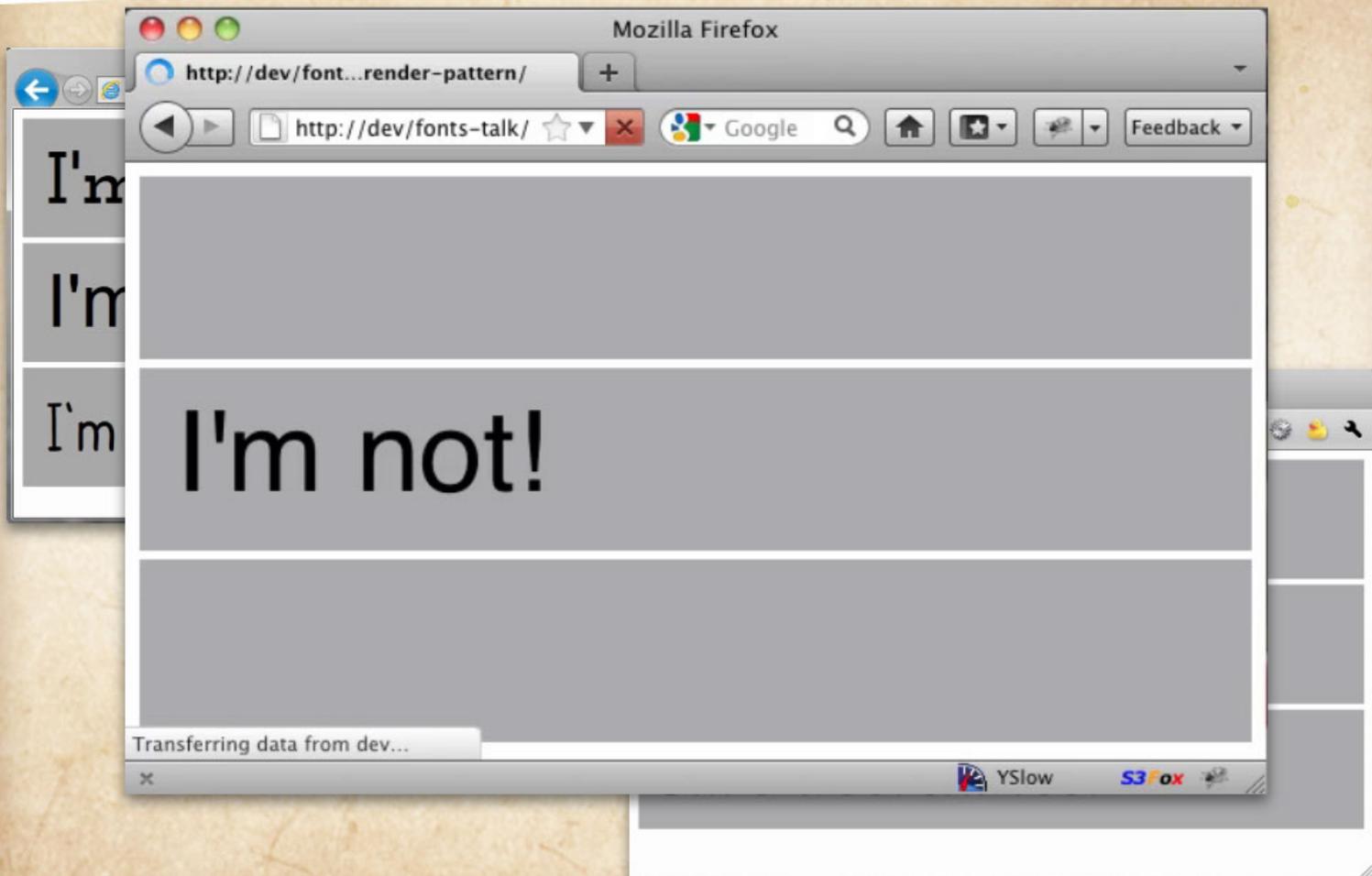
IE9/OPERA VS WEBKIT



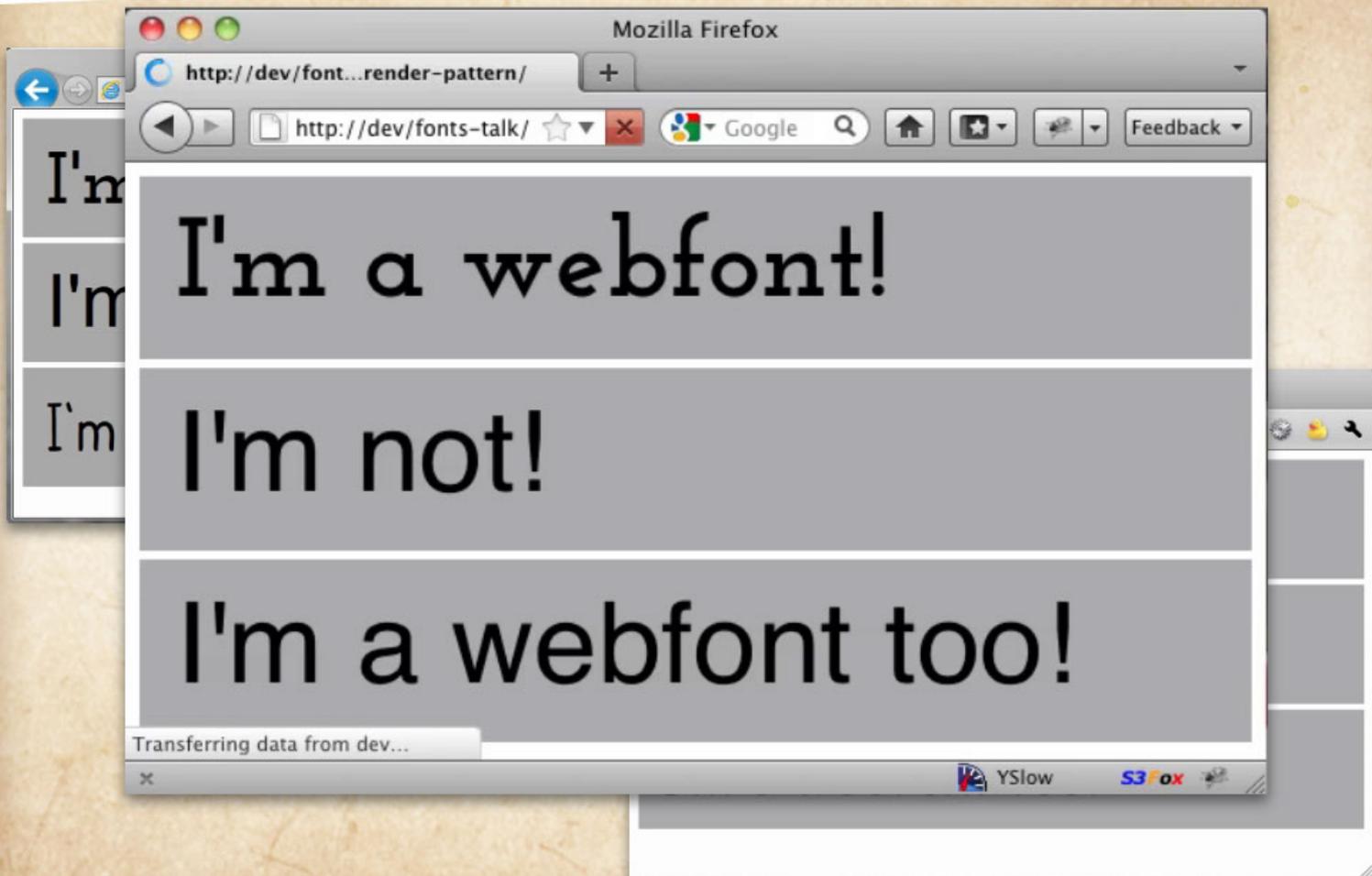
FIREFOX 4



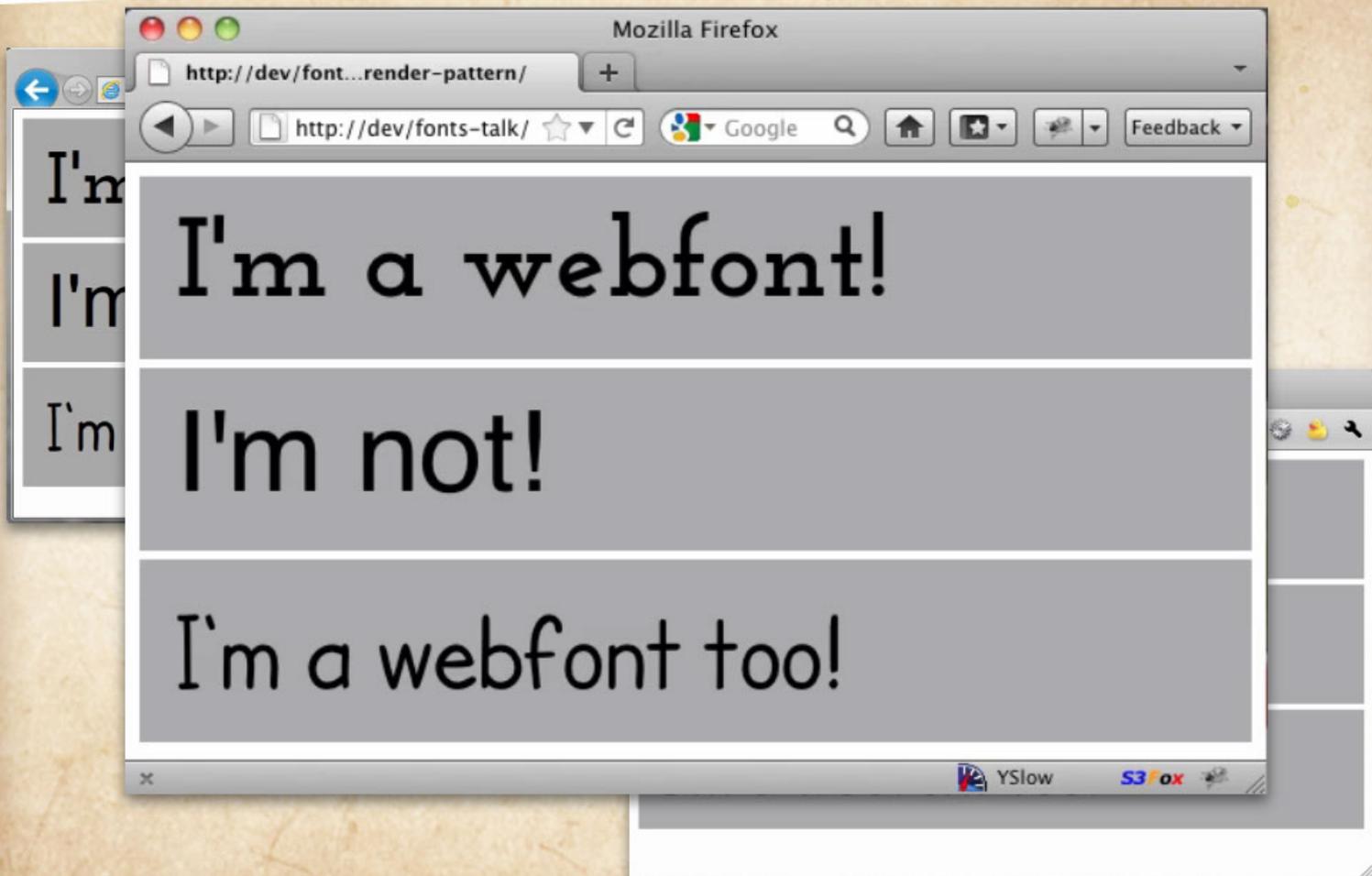
FIREFOX 4



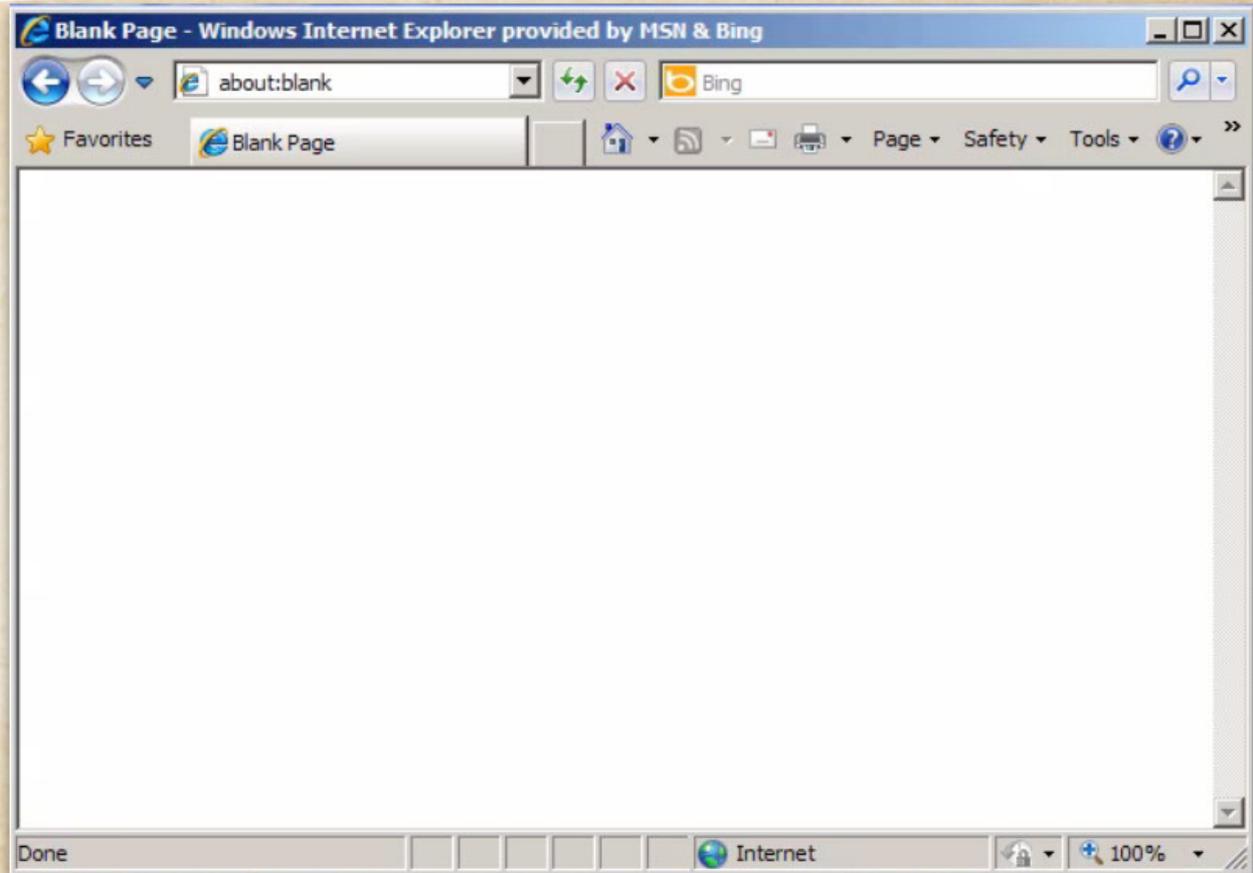
FIREFOX 4

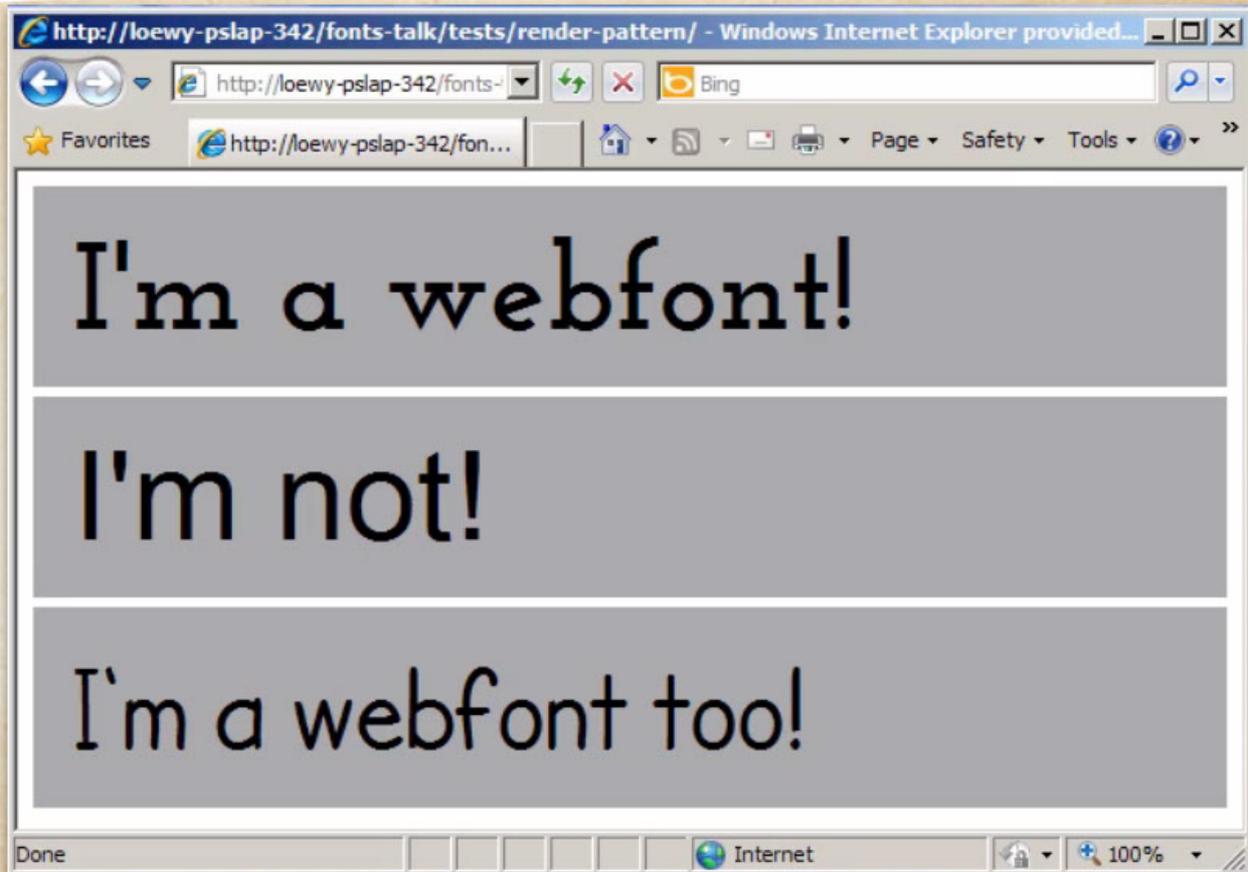


FIREFOX 4



IE8





FIXING IE8

```
<head>
  <style>
    @font-face { font-family: 'josefin'; src: /* etc etc */; }
    @font-face { font-family: 'cartoonist'; src: /* etc etc */; }
  </style>
  <script>document.documentElement.className += ' js';</script>
  <link rel="stylesheet" href="style.css"/>
</head>
```

- ➔ Inline font-face rules
- ➔ Before external CSS
- ➔ Before script elements

FIXING IE8

```
<head>
  <link rel="stylesheet" href="style.css"/>
  <script>(function() {
    var link = document.createElement('link'),
        head = document.getElementsByTagName('head')[0];
    link.rel = 'stylesheet';
    link.href = 'fonts.css';
    setTimeout(function() {
      head.insertBefore(link, head.firstChild);
    }, 0);
  })();</script>
</head>
```

- ➔ Inline font-face rules
- ➔ Before external CSS
- ➔ Before script elements
- ➔ ...or load the font css asynchronously

WEBFONT

Loader

WEBFONT LOADER

```
.wf-josefin-n4-loading p {  
} style, weight  
.wf-josefin-n4-active p {  
}  
.wf-josefin-n4-inactive p {  
}
```

Font name

Font loading

loaded

timed out

LOADING STYLES

```
<p class="josefin">I'm a webfont!</p>
<p>I'm not!</p>
<p class="cartoonist">I'm a webfont too!</p>
```

```
.josefin {
  font: normal 4em/1 josefin, sans-serif;
}
.wf-josefin-n4-loading .josefin {
  visibility: hidden;
}

.wf-cartoonist-n4-active .cartoonist {
  font: normal 4em/1 cartoonist;
}
.cartoonist {
  font: normal 3em/1.31 sans-serif;
}
```

MOMENTS WORTH PAYING FOR

Findanyfilm.com
Your gateway to official film and TV



[Home](#) [Scary](#) [Funny](#) [Sad](#) [Awe](#)

[About](#) [Prize details & winners](#)

Scary film and TV moments can send a chill down your spine. Make you scream in terror. Or hide behind your pillow, well, at least until you realise your girlfriend's coming back into the room.

These are moments worth paying for. To be enjoyed as their makers intended: in official ways that help to protect the future of film and TV, thanks to that tiny, but powerful © aka copyright.



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YOUR FAVOURITE **SCARY** MOVIE MOMENTS...

Scary film and TV moments can send a chill down your spine. Make you scream in terror. Or hide behind your pillow, well, at least until you realise your girlfriend's coming back into the room.

These are moments worth paying for. To be enjoyed as their makers intended: in official ways that help to protect the future of film and TV, thanks to that tiny, but powerful © aka copyright.



LOADING STYLES

```
<p class="josef-fo...>I'm a webfont!</p><p class="wf-josef-fo...>I'm not!</p><p class="wf-carter-fo...>I'm a webfont too!</p>
```

```
.josef-fo...  
fo...  
}  
.wf-josef-fo...  
vi...  
}  
.wf-carter-fo...  
fo...  
}  
.carter-fo...  
fo...  
}
```

I'm a webfont!

I'm not!

I'm a webfont too!

LOADING STYLES

```
<p class="josef">I'm a webfont!</p><p class="wf-josef">I'm not!</p><p class="wf-josef wf-carter">I'm a webfont too!</p>
```

```
.josef { font-family: 'josef'; }
```

```
.wf-josef { font-family: 'josef'; }
```

```
.wf-carter { font-family: 'carter'; }
```

```
.carter { font-family: 'carter'; }
```

I'm a webfont!

I'm not!

I'm a webfont too!

LOADING STYLES

```
<p class="josef">I'm a webfont!</p><p class="wf-josef">I'm not!</p><p class="wf-josef wf-cartoon">I'm a webfont too!</p>
```

```
.josef {font-family: josef;}
```

```
.wf-josef {font-family: wf-josef;}
```

```
.wf-cartoon {font-family: wf-cartoon;}
```

```
.cartoon {font-family: wf-cartoon;}
```



font-size-adjust: 0.5;

font-size =

font-size-adjust: 0.5;

font-size = height of Jesus

population of France

waves

fs



$$v = \sqrt{\mu g r}$$

$$\mu = \frac{v^2}{g r}$$

moon Radius

the voices

$$r = \frac{v^2}{g \mu}$$

bees

$$I = I_0 10^{\beta/10}$$

weight of Beer

price of chutney

Cannon wall

$$y_{max} = \frac{v_0^2 \sin^2(\theta)}{2g}$$

elbows

$$mgh = \frac{1}{2}$$

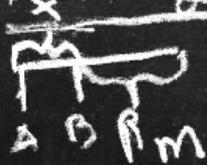
where you

$$v^2 + \frac{1}{2} I \omega^2$$

sub I + w

Diving Board (No mass Board)

I = moment eq. (9.11)



$$F_A = r_m m g$$

$$F_B = F_A + m g$$

horizontal temperature

2^2

font-size-adjust: 0.5;

font-size = height of



population of France

↑
waves

fs

$$I = I_0 \cdot 10^{\beta/10}$$

weight of Beer

price

$\rho_{\text{substance}} = \rho_{\text{fluid}}$

Diving Board (No mass Board)



$$F_A = \frac{r_m mg}{l}$$

$$F_B = F_A + mg$$

horizontal temperature

2²

$$v = \sqrt{\mu g r}$$

$$\mu = \frac{v^2}{g r}$$

$$= \frac{v^2}{g r}$$

the voices

bees

$$mgh = \frac{1}{2}$$

where you

I = moment eq. (9.11)

font-family: cartoonist, sans-serif;

font-size: 4em, 3em;

line-height: 1.31, 1;

WEBFONT LOADER

```
// in the <head> of every page...
window.WebFontConfig = {
  custom: {
    families: ['josefin', 'cartoonist'],
    urls:     ['fonts.css']
  }
};

var script = document.createElement('script'),
    firstScript = document.getElementsByTagName('script')[0];

script.src = '//ajax.googleapis.com/ajax/libs/webfont/1.0.19/webfont.js';
setTimeout(function() {
  firstScript.parentNode.insertBefore(script, firstScript);
}, 0);
```

WEBFONT LOADER

```
var fonts = WebFontConfig.config.families,
    i = fonts.length;

while(i--) {
    document.documentElement.className +=
        ' wf-' + fonts[i].replace(/\s/g, '').toLowerCase() + '-n4-loading';
}
```

WEBFONT LOADER

```
// in the <head> of every page...
setTimeout(function(){var a=document,g,b={families:(g=
["josefin","cartoonist"]),urls:["fonts.css"]},
c="//ajax.googleapis.com/ajax/libs/webfont/1.0.19/webfont.js",d="script",
e=a.createElement(d),f=a.getElementsByTagName(d)[0],h=g.length;WebFontConfig
={custom:b},e.src=c,f.parentNode.insertBefore(e,f);for(;h-->0;a.documentElement
.className+=' wf-'+g[h].replace(/\s/g,'').toLowerCase()+'-n4-loading');},0)
```

FORMATS

Why so many?

WHY ALL THESE FORMATS?

We don't need a new format,
let's just link to TTFs

Håkon Wium Lie (paraphrased)



INTERNET PHASES

- ➔ 1. The internet is coming! Run!
- ➔ 2. Sell, with ball & chain attached
- ➔ 3. Make buying easier & more pleasurable than pirating

EMBEDDED OPENTYPE

➔ Originally created for MS Word



EMBEDDED OPENTYPE

➔ Originally created for MS Word



EMBEDDED OPENTYPE

- ➔ Originally created for MS Word
- ➔ Embedded list of allowed sites



Washes itself!
Infinite pocket-bacon!
You'll shit money!

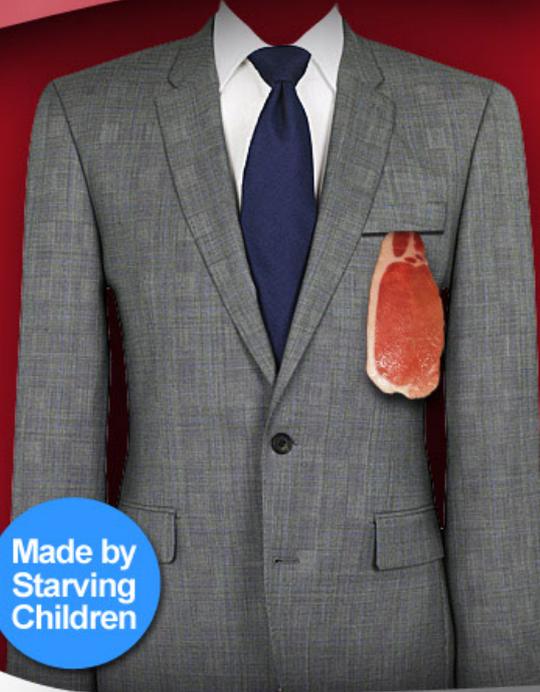
Microsoft



Shit
Genuine
Money!

Washes itself!
Infinite pocket-bacon!
You'll shit money!

Microsoft



Shit
Genuine
Money!

Made by
Starving
Children

Microsoft

HerpiSyphilator

WHY FOT?

...we could zip the TTF, even give
it a new extension

Håkon Wium Lie (paraphrased)



ENTER WOFF



ENTER WOFF



ENTER WOFF

- ➔ No 'DRM'
- ➔ Zlib compression
- ➔ Opentype features



HORRIBLE METAPHOR



@mezzoblue

Dave Shea

@jaffathecake DO IT.

27 May via web ☆ Favorite ↻ Retweet ↩ Reply

HORRIBLE METAPHOR

- ➔ Welcome to the human centipede
- ➔ The Law > Font foundries > Browsers > Us > The user
- ➔ It must stop at us!
- ➔ Serve at least EOT & TTF in a way that works
- ➔ Avoid unnecessary downloads
- ➔ Show content quickly with the best transition between fonts
- ➔ Make font deliverables small, if possible, with Font Squirrel/FontForge
- ➔ Don't piss on your earphones

IT'S OVER!

- ➔ Email: jaffathecake@gmail.com
- ➔ Twitter: [@jaffathecake](https://twitter.com/jaffathecake)
- ➔ Tests: github.com/jakearchibald/font-testing
- ➔ Any questions?



jakeQuery

ask questions, get answers.