












CSS fonts trivia

By [Chen Hui Jing](#) / [@hj_chen](#)

Font formats for web use

WOFF2 (Web Open Font Format 2)	 Microsoft		Opera
WOFF (Web Open Font Format)	 Microsoft		Opera
OTF (OpenType)	 Microsoft		
TTF (TrueType)	 Microsoft		
EOT (Embedded Open Type)	 Microsoft		
SVG (Scalable Vector Graphics)	 		

@font-face rule

```
@font-face {  
  font-family: 'Magnetic Pro';  
  src: url('../fonts/magnetic-pro-light.woff2') format('woff2'),  
       url('../fonts/magnetic-pro-light.woff') format('woff');  
}
```

WOFF - Web Open Font Format [↗](#)

Compressed TrueType/OpenType font that contains information about the font's source.

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
9	13	53	58	9.1	45	9.3		4.4	
10	14	54	59	10	46	10.2		4.4.4	
11	15	55	60	10.1	47	10.3	all	56	59
	16	56	61	11	48	11			

✓ ✗ Partial Support

Global: 93.58% + 0% = 93.58%

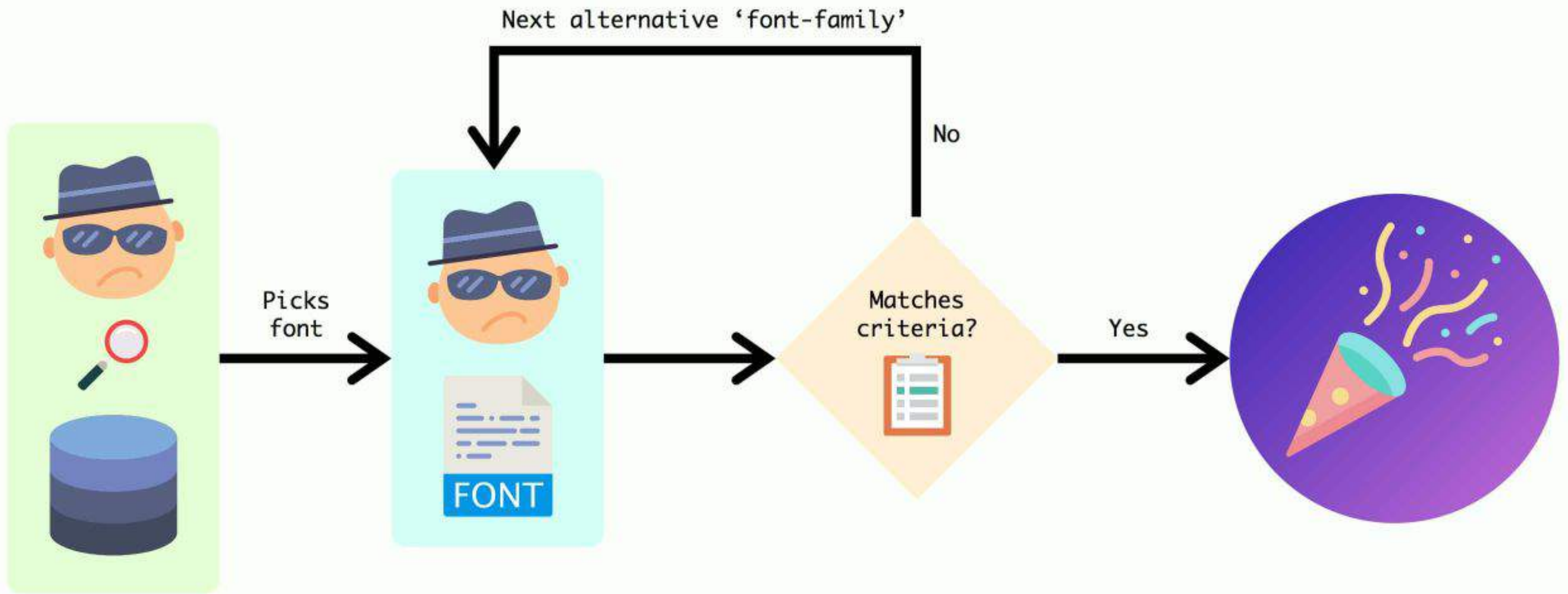
WOFF 2.0 - Web Open Font Format [↗](#)

TrueType/OpenType font that provides better compression than WOFF 1.0.

IE	Edge	Firefox	Chrome	Safari	Opera	iOS Safari	Opera Mini	Android Browser	Chrome for Android
9	13	53	58	9.1	45	9.3		4.4	
10	14	54	59	10	46	10.2		4.4.4	
11	15	55	60	10.1	47	10.3	all	56	59
	16	56	61	11	48	11			

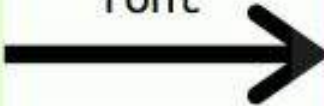
✓ ✗ Partial Support

Global: 75.45% + 1.54% = 76.99%





Picks font



Declare your Latin fonts first

```
font-family: 'Gentium Basic', 'PingFang TC', 'Microsoft JhengHei', '微軟正黑體', 'Heiti TC', '黑體-繁', sans-serif;
```

Font rendering for Mac and Windows is different, and sometimes the Latin characters in Chinese fonts don't look good on Windows.

Put your font names in quotes. Just in case.

Generic font families

Dependent on OS, HTML language, character set and browser.

<code>serif</code>	Times New Roman, SimSun, SongTi SC
<code>sans-serif</code>	Arial, Microsoft Yahei, PingFang SC
<code>monospace</code>	Consolas, SimSun, PingFang SC
<code>cursive</code>	Comic Sans MS, Apple Chancery, SimSun (oblique), SongTi SC (oblique)
<code>fantasy</code>	Gabriola, Impact, Papyrus, Microsoft Yahei, PingFang SC

Level 4 is adding `system-ui`, `emoji`, `math` and `fangsong`

Basic font properties

<code>font-weight</code>	Specifies the weight of the glyphs in the font. Can use keywords or numerical values.
<code>font-stretch</code>	Selects a normal, condensed or expanded face from a font family. Range spans over 9 keywords.
<code>font-style</code>	Allows italic or oblique faces to be selected.
<code>font-size</code>	Indicates the desired height of the glyphs. Takes absolute or relative values.
<code>font-size-adjust</code>	Adjusts the <code>font-size</code> to preserve the x-height of the first choice font.
<code>font-synthesis</code>	Controls whether user agents are allowed to synthesize bold or oblique font faces when missing.

Using non-system fonts

The `@font-face` rule allows us to link to fonts, either locally or external, which are fetched and activated when needed.

We can use multiple `@font-face` rules to construct font families.

A rule consists of the `@font-face` keyword followed by a block of font descriptors.

Anatomy of an @font-face rule

```
@font-face {  
  font-family: <family-name>  
  src: [ <url> [format(<string> #)]? | <font-face-name> ] #  
  font-style: normal | italic | oblique  
  font-weight: normal | bold | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900  
  font-stretch: normal | ultra-condensed | extra-condensed | condensed | semi-condensed  
  unicode-range: <urange> #  
  font-variant: normal | none | [ <common-lig-values> || <discretionary-lig-values> || <historical-lig-values> ] #  
  font-feature-settings: normal | <feature-tag-value> #  
}
```

Краткая история создания Тетриса

Алексей Пажитнов написал первый Тетрис на компьютере Электроника-60. Он работал в ВЦ Академии наук, где изучал вопросы распознавания речи и искусственного интеллекта. Для обкатки своих идей Пажитнов использовал головоломки, включая и пентамино. Он попытался сделать автоматической укладку в заданные фигуры пентамино, но не хватило мощности того оборудования для его вращения. Пришлось отлаживать на тетрамино, так и родилось название игры. Те опыты Алексея и родили главную идею Тетриса – падение фигурок и исчезновение заполненных рядов.

```
@font-face {  
  font-family: 'Magnetic Pro';  
  src: url('magnetic-pro-light.woff2') format('woff2'),  
       url('magnetic-pro-light.woff') format('woff');  
  font-weight: normal;  
  font-style: normal;  
}
```

```
@font-face {  
  font-family: 'Magnetic Pro';  
  src: url('bender.woff2') format('woff2'),  
       url('bender.woff') format('woff');  
  font-weight: normal;  
  font-style: normal;  
  unicode-range: U+0400-U+04FF;  
}
```

Font feature properties (1/2)

font-kerning

AV Wa

No kerning

AV Wa

Kerning applied

font-variant-position

C₁₀ H₁₆ N₅ O₁₃ P₃

C₁₀ H₁₆ N₅ O₁₃ P₃

font-variant-position-ligatures

fi ▶ fi tʒ ▶ tʒ

WORDS ▶ WORDS
labor of love ▶ *labor of love*

font-variant-numeric

1st 17th 2a ▶ 1st 17th 2^a

2 1/3 ▶ 2¹/₃ Lining Old-Style

4000 ▶ 4000 409,280 367,112 409,280 367,112

2 1/3 ▶ 2¹/₃ 155,068 171,792 155,068 171,792

font-variant-caps

The DOM, the HTML syntax, and the XHTML syntax cannot all represent the same content. For example, namespaces cannot be represented using the HTML syntax, but they are supported in the DOM and in the XHTML syntax.

font-variant-alternates

Jesuits ▶ Jefuits
quick ▶ *quick* Quick ▶ Quick
incroyable ▶ **incroyable**
• ▶ ❁ ❂ ❃ 519 ▶ ⑤①⑨

Font feature properties (2/2)

font-variant-east-asian

麴町 ▶ 麴町

大学 ▶ 大學

欧文フォント ▶ 欧文フォント

font-language-override

Señora ▶ Señora

Sorpresa ▶ Sorpresa

Trés ▶ Trés

font-feature-settings

Provides low-level control of advanced OpenType features

THE END

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