The web is not just left-to-right
Braille typeface for public spaces hopes to create an “inclusive” society

Japanese designer Kosuke Takahashi talks about why he decided to create a new typeface that incorporates braille letters to cater for both blind and sighted people.

Naz Sharif

It’s Nice That

Netflix unveils Netflix Sans, new custom typeface developed with Dalton Maag

Words by Jenny Brewer, March 2018

Gothic or Helvetica? For Brands, Fonts Help Tell a Story

Advertising

By JANET MORRISSEY  APRIL 1, 2018

At the end of the day, perhaps typography will be Trump’s downfall
What is typography?

“Typography is writing with prefabricated letters”

—Gerrit Noordzij
Source Hans Serif Regular (65,535 glyphs)
Communication
(English) 13 letters
Backpfeifengesicht
(German) 18 letters
Grianghrafadhóireachta
(Irish) 21 letters

攝影
Phoenician alphabet
<table>
<thead>
<tr>
<th>ORIGINAL MEANING</th>
<th>Egyptian</th>
<th>Phoenician</th>
<th>Greek</th>
<th>Roman Capital</th>
<th>Roman Uncia</th>
<th>Roman Half-Uncia</th>
<th>Minuscule</th>
<th>MODERN FORMS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ox</td>
<td></td>
<td></td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>A</td>
<td>a</td>
<td>Aa AaAaAa</td>
</tr>
<tr>
<td>House</td>
<td></td>
<td></td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>B</td>
<td>b</td>
<td>Bb BbBbBb</td>
</tr>
<tr>
<td>Camel</td>
<td></td>
<td></td>
<td>G</td>
<td>G</td>
<td>g</td>
<td>g</td>
<td>Gg</td>
<td>GgGgGgGgGg</td>
</tr>
<tr>
<td>Door</td>
<td></td>
<td></td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>D</td>
<td>d</td>
<td>Dd DdDdDd</td>
</tr>
<tr>
<td>Window</td>
<td></td>
<td></td>
<td>E</td>
<td>E</td>
<td>e</td>
<td>e</td>
<td>e</td>
<td>Ee EeEeEeEe</td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td></td>
<td>M</td>
<td>M</td>
<td>m</td>
<td>m</td>
<td>m</td>
<td>MmMmMmMmMm</td>
</tr>
<tr>
<td>Eye</td>
<td></td>
<td></td>
<td>O</td>
<td>O</td>
<td>o</td>
<td>o</td>
<td>o</td>
<td>o0 o0o0o0o0</td>
</tr>
<tr>
<td>Cross</td>
<td></td>
<td></td>
<td>T</td>
<td>T</td>
<td>t</td>
<td>t</td>
<td>t</td>
<td>Tt TtTtTtTt</td>
</tr>
</tbody>
</table>

Illustrating the probable development of some of the letters of the alphabet.
<table>
<thead>
<tr>
<th>甲骨文</th>
<th>日</th>
<th>月</th>
<th>马</th>
</tr>
</thead>
<tbody>
<tr>
<td>金文</td>
<td>日</td>
<td>月</td>
<td>马</td>
</tr>
<tr>
<td>小篆</td>
<td>日</td>
<td>月</td>
<td>马</td>
</tr>
<tr>
<td>隶书</td>
<td>日</td>
<td>月</td>
<td>马</td>
</tr>
<tr>
<td>楷书</td>
<td>日</td>
<td>月</td>
<td>马</td>
</tr>
<tr>
<td>草书</td>
<td>日</td>
<td>月</td>
<td>马</td>
</tr>
<tr>
<td>行书</td>
<td>日</td>
<td>月</td>
<td>马</td>
</tr>
</tbody>
</table>
“Chinese-script projects are crazy. The scope is mind-blowing.”

—David Březina from The long, incredibly tortuous, and fascinating process of creating a Chinese font
The web is a unique medium of its own

Physical media

Web medium
Team layout

Display
Box Alignment
Flexible Box
CSS Grid
Ruby Layout
Inline Layout
Positioned Layout
Writing Mode
CSS Shapes
CSS Transforms

And more...
三十六年后。

汪毅是很，是税局的四个人是一个奇怪的组合：两名警官两名农夫。如果这两个人走是武器还算是正常，但这是两两农民军营。

汪毅阴森冷淡的警官没有好感，其实那名警官走的老年人又沉，举止我有礼貌，但到我面前就让人讨厌了。老人长着长的三根，一脸横肉，穿着西装的的皮夹克，浑身散发；说话声音大嗓，车暴命令汪毅发现的那军人。

「对就？」我问。意呼什么名言说做不做，何况日本人还要说话。从那句话一下。不等汪毅回答，就向旁边那名年轻人示意了一下。后者也汪毅招了招手，万吨船最后就直接用手擦动。

「请不要在我家考试。」汪毅招了招。他。

「哦，对不，汪毅是，这是我们剧场队长。」年轻警官微笑，好像对这学说成了个颜色。
Building for cross-browser compatibility

This is the third post of a multi-part series about developing the brand identity for Wismut Labs.

The previous post covered a number of design decisions made with regards to the overall style.

Without roots. Everywhere.
POWER

THE NERVE CENTRE OF LONDON'S UNDERGROUND
team Layout

CSS transforms

Defines a set of CSS properties that affect the visual rendering of elements to which those properties are applied.

Lets you do photoshoph effects in your browser.
Creating CSS pencils

(Transforms edition)

1. Mark-up
2. Visual styles
3. Layout styles
1. Mark-up

- This is a pencil
- A CSS only pencil
- Because why not
2. Visual styles

```
.transforms1 li {
  display: flex;
  align-items: start;
  margin-bottom: 1em;
}
.transforms1 li::after {
  content: "";
  border-style: solid;
  border-color: transparent transparent transparent transparent #e29663;
  border-width: 1em 2em 1em;
}
.transforms1 li::before {
```

3. Layout styles

```css
.transforms2 {
    transform: rotate(90deg)
    translateY(-150%);
    transform-origin: 0% 0%;
}
```
What happens when you apply a transform?

- establishes a **new local coordinate system** at the element that it is applied to
- does **not** affect the flow of the content surrounding the transformed element
- results in the creation of a **stacking context**
Super Silly Hackathon by Lim Chee Aun
team Layout

writing mode

Specifies the block flow direction, which determines the ordering of block-level boxes in a block formatting context. Can make content horizontal or vertical.
CSS Writing Modes

Defines CSS features to support for various international writing modes, such as left-to-right (e.g. Latin or Indic), right-to-left (e.g. Hebrew or Arabic), bidirectional (e.g. mixed Latin and Arabic) and vertical (e.g. Asian scripts).
**writing-mode property**

<table>
<thead>
<tr>
<th>horizontal-tb</th>
<th>从1987到现在</th>
</tr>
</thead>
<tbody>
<tr>
<td>vertical-rl</td>
<td>从1987到现在</td>
</tr>
<tr>
<td>vertical-lr</td>
<td>从1987到现在</td>
</tr>
<tr>
<td>sideways-rl*</td>
<td>从1987到现在</td>
</tr>
<tr>
<td>sideways-lr*</td>
<td>从1987到现在</td>
</tr>
</tbody>
</table>

Properties marked with * have been deferred to Writing Modes Level 4.
text-orientation property

从1987到现在

mixed

从1987到现在

upright

从1987到现在

sideways
text-combine-upright property

民國107年6月1日

none

民國107年6月1日

all

民國107年6月1日

digits <integer>*

Codepen example for text-combine-upright
Creating CSS pencils

(writing-mode edition)

1. Mark-up
2. Layout and visual styles
1. Mark-up

- This is a pencil
- A CSS only pencil
- Because why not

```html
<ul>
  <li>
    <p>This is a pencil</p>
  </li>
  <li>
    <p>A CSS only pencil</p>
  </li>
  <li>
    <p>Because why not</p>
  </li>
</ul>
```
2. Layout styles

This is a pencil.
A CSS only pencil.
Because why not.

.writingmodel {
    writing-mode: vertical-rl;
}


3. Visual styles

```css
.writingmode2 li {
  margin-left: 1em;
  display: flex;
  align-items: start;
}

.writingmode2 li::after {
  content: ''; 
  display: block;
  border-style: solid;
  border-color: #e29663 transparent transparent transparent;
}
```
team Layout

Logical properties

Allows control of layout through logical, rather than physical, direction and dimension mappings

Resolves confusion with left and right when writing-mode changes
https://www.smashingmagazine.com/2018/03/understanding-logical-properties-values/
Flexbox

Describes a CSS box model optimized for user interface design

Makes vertical centring a pleasant dream instead of a horrible nightmare
Moar pencils, please

- This is a pencil
- A CSS only pencil
- Because why not
- This is a pencil
- A CSS only pencil
- Because why not

- This is a pencil
- A CSS only pencil
- Because why not

- This is a pencil
- A CSS only pencil
- Because why not

```
<div>
  <ul>
    <li>
      <p>This is a pencil</p>
    </li>
    <li>
      <p>A CSS only pencil</p>
    </li>
    <li>
      <p>Because why not</p>
    </li>
  </ul>
  <ul>
    <li>
      <p>This is a pencil</p>
    </li>
    <li>
      <p>A CSS only pencil</p>
    </li>
  </ul>
</div>
```
Mixed writing-modes?

.flex1 .vert {
    writing-mode: vertical-rl;
}

.flex1 .vert li {
    display: flex;
    align-items: start;
    margin: 0.5em;
}

.flex1 .vert li::after {
    content: ''; 
    display: block;
    border-style: solid;
    border-color: #e29663 transparent transparent
}
Single dimension daisy chains

flex-direction: row

flex-direction: column
Re-ordering flow

```css
.flex2 {
  display: flex;
  align-items: center;
  height: 100%;
  flex-wrap: wrap;
  flex-direction: row;
}
```
team Layout

CSS Grid

Defines a two-dimensional grid-based layout system, optimized for user interface design.

Makes it possible to do overlap and vertical whitespace easily.
“Grid works from the container in, other layout methods start with the item”

—Rachel Andrew
Layout technique: inline-block

<table>
<thead>
<tr>
<th>Item A</th>
<th>Item B</th>
<th>Item C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item D</td>
<td>Item E</td>
<td>Item F</td>
</tr>
</tbody>
</table>

```css
.inlineblock__item {
  display: inline-block;
  width: calc(100% / 3);
}
```
Layout technique: float

<table>
<thead>
<tr>
<th>Item  A</th>
<th>Item  B</th>
<th>Item  C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item  D</td>
<td>Item  E</td>
<td>Item  F</td>
</tr>
</tbody>
</table>

```css
.float__item {
  float: left;
  width: calc(100% / 3);
}
```
## Layout technique: flex

<table>
<thead>
<tr>
<th>Item A</th>
<th>Item B</th>
<th>Item C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item D</td>
<td>Item E</td>
<td>Item F</td>
</tr>
</tbody>
</table>

```css
.flexbox {
  display: flex;
  flex-wrap: wrap;
}

.flexbox__item {
  flex: 0 0 calc(100% / 3);
}
```
Established relationship between rows and columns

Diagram inspired by Brenda Storer's Using CSS in the real world talk.
Using `grid-column` and `grid-row`

```css
.grid-row: 5;
}

.placement__item:nth-child(4) {
  grid-column: 5;
  grid-row: 1;
}

.placement__item:nth-child(6) {
  grid-column: 3;
  grid-row: 3;
}
```
Original image from Moholy-Nagy, Malerei, Fotografie, Film
Bauhaus in the browser

Featuring...

- Grid
- Flexbox
- Writing mode
- Transforms
- Box alignment

https://codepen.io/huijing/pen/PpqomV | Full page demo
These are not the borders you are looking for

That's more like it
Original image by Charles Hayter
Colour theory with blend-modes

Featuring...
- Grid
- Box alignment
- Blend modes
- Box shadow

https://codepen.io/huijing/pen/gmOERN | Full page demo
Say yes to dynamic layouts
https://codepen.io/huijing/pen/xPEjWb

Full page demo
Art direction for the web

Tycho

Original design by Drew Sullivan
Tycho

Tycho is an American ambient music project led by Scott Hansen as primary composer, songwriter and producer. Hailing from San Francisco, California, he is known as ISO50 for his photographic and design works. His music is a combination of downtempo vintage-style synthesizers and ambient vocals.

https://codepen.io/huijing/pen/Q2GBjY

Full page demo
Feature queries

Tests whether the user agent supports CSS property:value pairs

Like Modernizr, but in native CSS and makes it safe to use cutting edge features right now
Anatomy of a feature query

```
.selector {
  /* Styles that are supported in old browsers */
}

@supports (property:value) {
  .selector {
    /* Styles for browsers that support the specified property */
  }
}
```
Original image from CSS tricks
This example requires a browser that supports CSS Flexbox or Grid. If your browser did support CSS Grid, you would have seen something that resembles the image below, except recreated in HTML and CSS instead.

```css
header::before {
  content: 'This example requires a browser
  display: inline-block;
  background-color: rgba(253, 182, 182, 0.7)
  font-size: initial;
  max-width: 36em;
  color: #000;
  padding: 0.5em;
}
header > * {
  display: none;
}
header {
  background-color: $background;
  background-image: url('./fallback.png');
  background-size: contain;
  background-repeat: no-repeat;
}```
@supports (display:grid) {
  .time {
    grid-row: 7;
  }
}
.grid {
  display: grid;
  grid-template-columns: repeat(9, 1fr);
  grid-template-rows: repeat(3, 2em) repeat(1, 1fr); grid-gap: 0.125em;
  position: relative;
}
@media screen and (min-width: 480px) {
  .grid {
    transform: rotate(-30deg) translateX(0);
  }
}
Frequency of major browser releases
CSS Grid release dates

March 2017

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>28</td>
<td>29</td>
</tr>
</tbody>
</table>

October 2017

<table>
<thead>
<tr>
<th>Sun</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thu</th>
<th>Fri</th>
<th>Sat</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td>15</td>
<td>16</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
</tr>
<tr>
<td>22</td>
<td>23</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>28</td>
</tr>
<tr>
<td>29</td>
<td>30</td>
<td>31</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# CSS Grid browser support

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors. Includes support for all "grid-*" properties and the "fr" unit.

<table>
<thead>
<tr>
<th>CSS Grid Layout</th>
<th>Edge</th>
<th>Firefox</th>
<th>Chrome</th>
<th>Safari</th>
<th>iOS Safari</th>
<th>Opera Mini</th>
<th>Chrome for Android</th>
<th>Android Browser</th>
<th>Samsung Internet</th>
</tr>
</thead>
<tbody>
<tr>
<td>IE</td>
<td>8</td>
<td>14</td>
<td>57</td>
<td>63</td>
<td>10</td>
<td>10.2</td>
<td></td>
<td>4.3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>15</td>
<td>58</td>
<td>64</td>
<td>10.1</td>
<td>10.3</td>
<td></td>
<td>4.6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>16</td>
<td>59</td>
<td>65</td>
<td>11</td>
<td>11.2</td>
<td></td>
<td>4.44</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>17</td>
<td>60</td>
<td>66</td>
<td>11.1</td>
<td>11.3</td>
<td></td>
<td>66</td>
<td>66</td>
</tr>
</tbody>
</table>

---

Global: 03.09% - 3.04% - 67.25%
Thank you!

https://www.chenhuijing.com

@hj_chen
@hj_chen
@huijing

Font used is Amaranth, by Gesine Todt