

SOUS LE HAUT PATRONAGE DE SA MAJESTÉ LE ROI MOHAMMED VI

CSS
IS
AWESOME!

\$ whoami

#2

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⚠ Je ne suis pas un designer

w3c The Rule of Least Power

1. Texte
2. HTML (sémantique)
3. CSS (layout, style, animations simples)
4. SVG (formes et animations complexes)
5. JavaScript, WebAssembly (gestion d'états, appel backend, calculs)

⚠... mais il y a toujours de bonnes raisons pour ne pas suivre ces règles

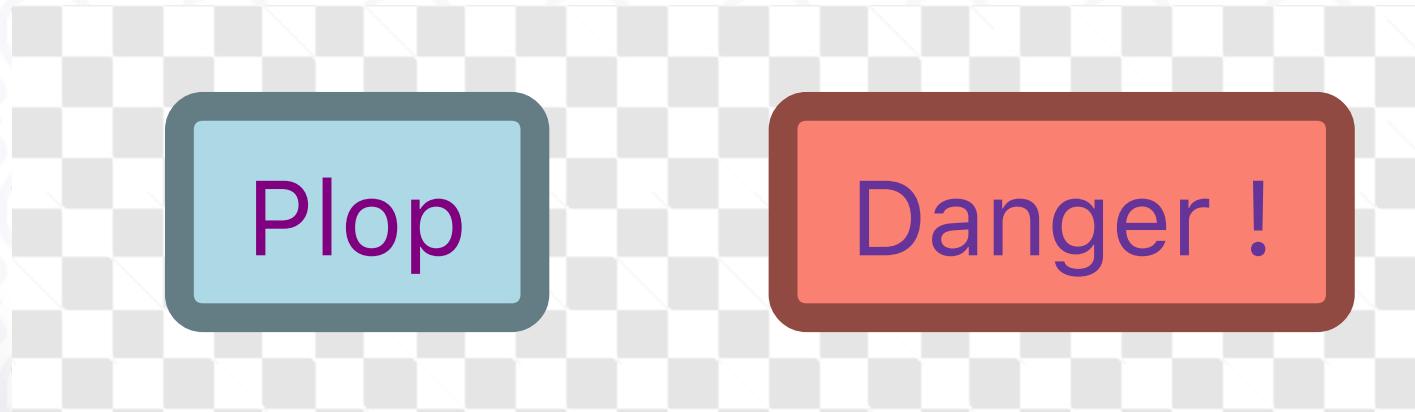
- I. Utiliser un pré-processeur ?
- II. Unités
- III. Flexbox et Grid
- IV. Pseudo éléments
- V. Animations
- VI. Pseudo classes d'état
- VII. Conclusion

UTILISER UN PRÉ-PROCESSEUR ?

Bordure des boutons

#6

```
button {  
    background: lightblue;  
    color: purple;  
    /*border: medium solid currentColor;*/  
    border: medium solid rgba(0,0,0,.42);  
}  
button.danger {  
    background: salmon;  
    color: rebeccapurple;  
}
```



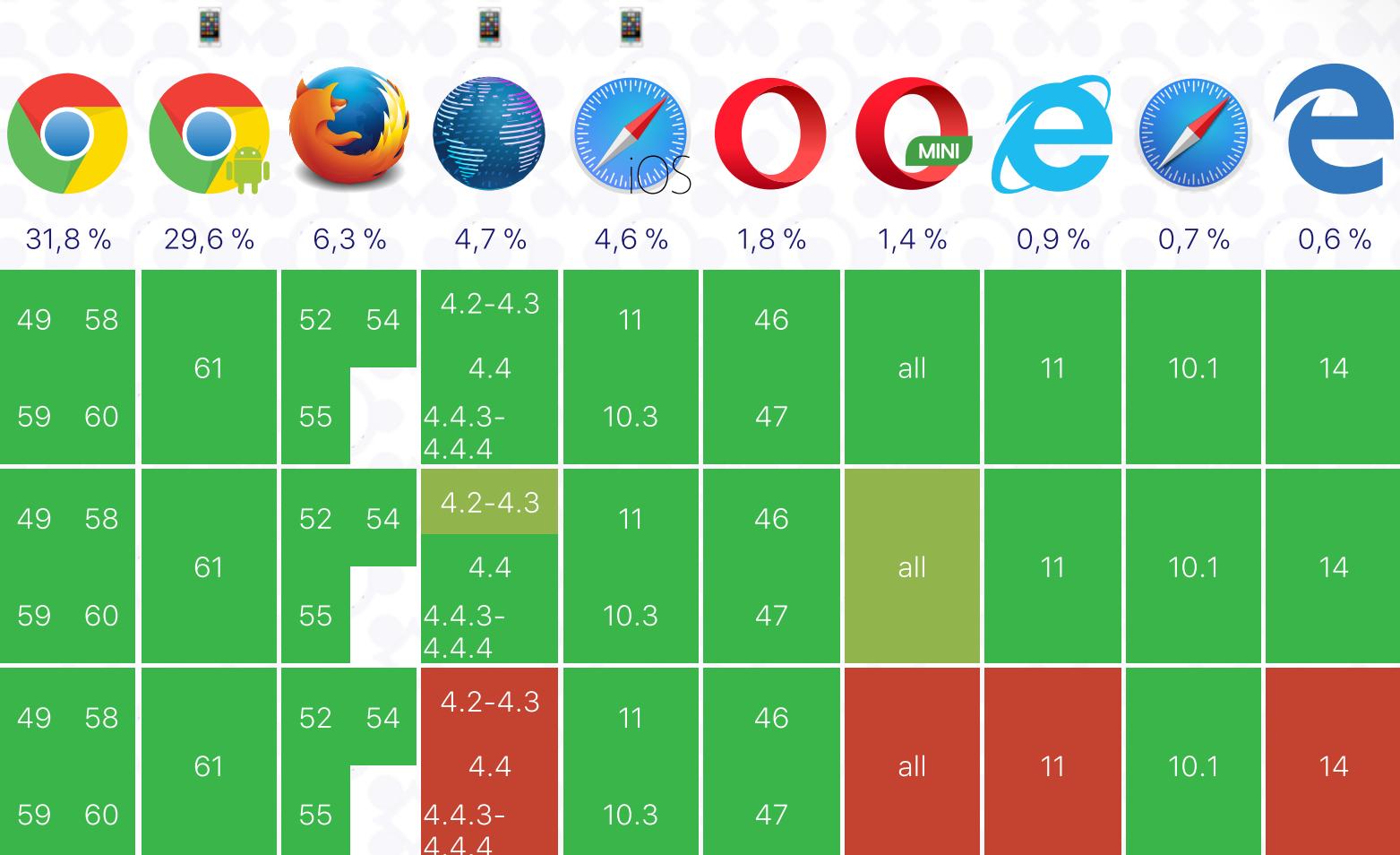
Oui, mais privilégiez:

- le CSS
- les post-processeurs
-  `currentColor`
-  `background-origin`
-  `w3c` CSS Variables (aka Custom Properties)
-  `w3c` CSS Color Module Level 4

Compatibilité

#8

Navigateurs, usage ≥ 0,5% au Maroc



UNITÉS

Une histoire d'unités CSS

#10



CommitStrip.com

CommitStrip

#DevoxxMa @ilaborie #CSS #🦄

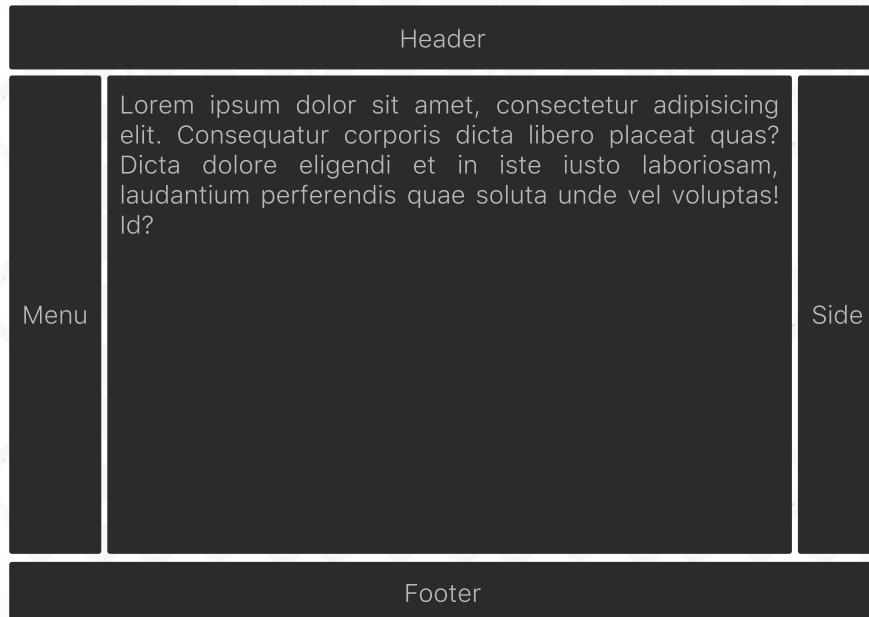
DEVOXX
MOROCCO

Les unités de longueur

px, cm, pt, ...	longueurs absolues (mesure physique)
em, rem	fonction de la font-size
ex, ch	hauteur d'un x, largeur d'un Ø
vh, vw	(100vh, 100vw) = (hauteur, largeur) du <i>viewport</i>
vmin, vmax	$\min(1vh, 1vw), \max(1vh, 1vw)$

Holy Grail avec calc

#12



```
<body>
  <header>Header</header>
  <div>
    <nav>Menu</nav>
    <main>Content</main>
    <aside>Side</aside>
  </div>
  <footer>Footer</footer>
</body>
```

- [!\[\]\(d25e96b37004bb0da300e6da96ee0cd4_img.jpg\) Unités](#)
- [!\[\]\(d3aa9c337ac999b14e00b7d8b3eddb7b_img.jpg\) w3c Truc et astuces](#)
- [!\[\]\(ab79838378ac037f4cb6d7f5a97bf3d7_img.jpg\) calc](#)
- [!\[\]\(7c71e3de03a819b7752b2c78e9a5360a_img.jpg\) Fun with Viewport Units](#)

Compatibilité

#14

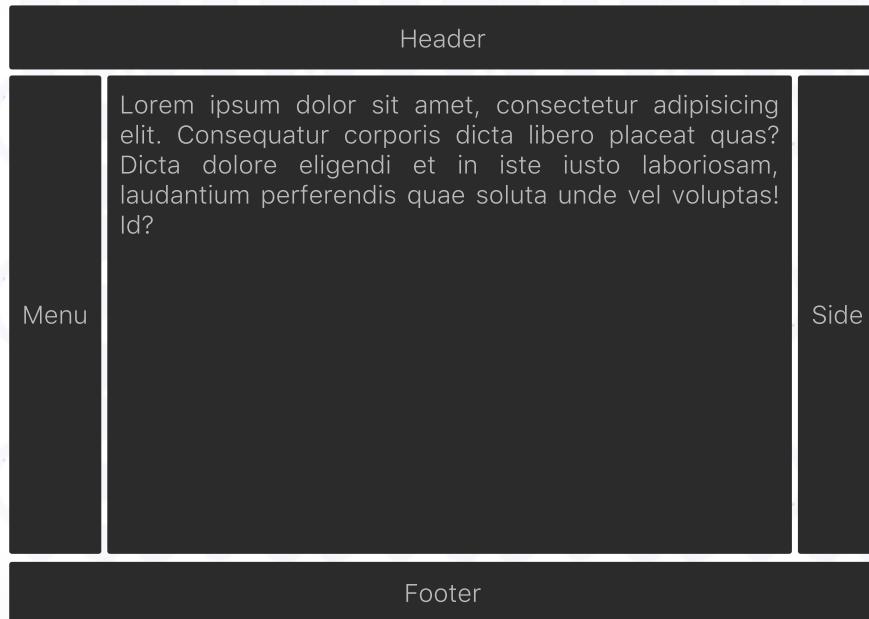
Navigateurs, usage ≥ 0,5% au Maroc



FLEXBOX ET GRID

Holy Grail avec flexbox

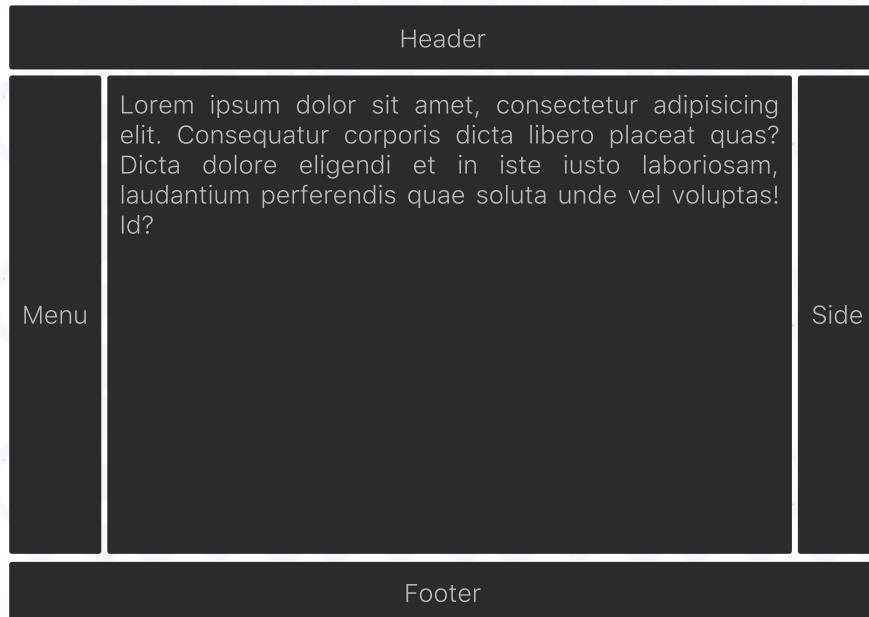
#16



```
<body>
  <header>Header</header>
  <div>
    <nav>Menu</nav>
    <main>Content</main>
    <aside>Side</aside>
  </div>
  <footer>Footer</footer>
</body>
```

Holy Grail avec grid

#17



```
<body>
  <header>Header</header>
  <div>
    <nav>Menu</nav>
    <main>Content</main>
    <aside>Side</aside>
  </div>
  <footer>Footer</footer>
</body>
```

Flexbox

-  [Flexbox, et le CSS redevient fun ! \(Hubert SABLONNIÈRE\)](#)
-  [Solved by Flexbox](#)
-  [Flexbox Froggy](#)

Grid

-  [@supports](#)
-  [# Grid by examples](#)
-  [CSS Grid Changes Everything \(About Web Layouts\) by Morten Rand-Hendriksen](#)

-  [Grid Garden](#)

Compatibilité

#19

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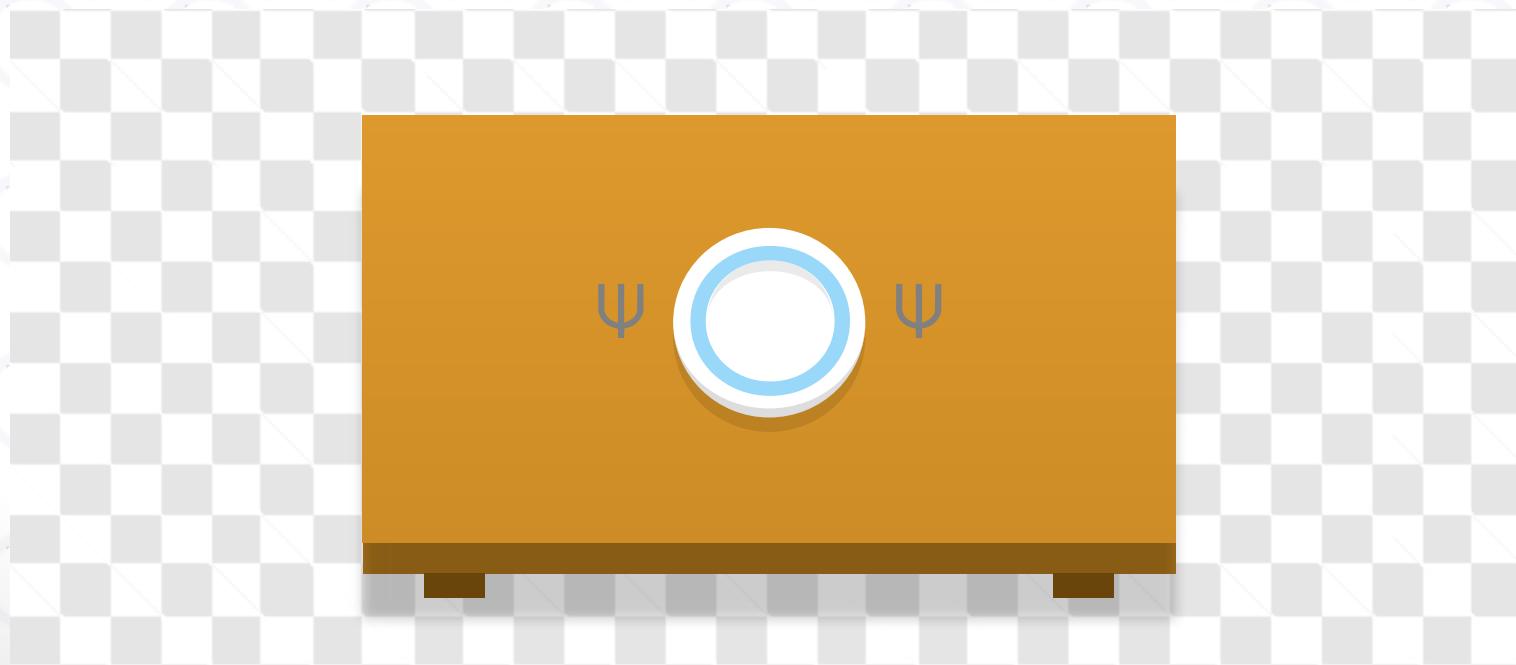
PSEUDO ÉLÉMENTS

Le dîner d'un philosophe

#21

```
<div class="table">  
  <div class="plate"></div>  
</div>
```

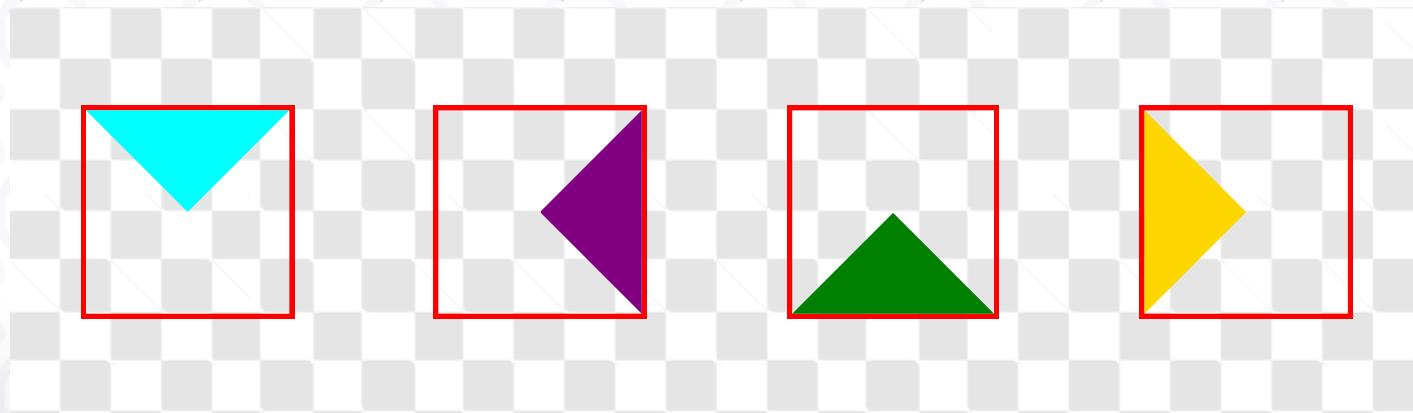
```
.table::before, .table::after {  
  color: gray;  
  font-size: 2rem;  
  content: '∅';  
  transform: rotate(180deg);  
}
```



Triangle avec des bordures

#22

```
div.top, div.right, div.bottom, div.left {  
    border: 2em solid transparent;  
    display: inline-block;  
    box-shadow: 0 0 0 .1em red;  
}  
  
div.top { border-top-color: cyan; }  
div.right { border-right-color: purple; }  
div.bottom { border-bottom-color: green; }  
div.left { border-left-color: gold; }
```



```
.popover {  
    position: relative;  
    background: teal;  
}  
.popover::before {  
    position: absolute;  
    z-index: -1;  
    content: '';  
    top: 1.25em; left: 1em;  
    border: .8em solid transparent;  
    border-top-color: teal;  
    transform: skew(-30deg);  
}
```

Hello Devoxx Morocco !

- [w3c The :before and :after pseudo-elements](#)
- mais aussi `::first-letter`, `::first-line`,
`::selection`, `::backdrop`
- [!\[\]\(2238d8c4acff0b2ed98f4015280974e9_img.jpg\) An Ultimate Guide To CSS Pseudo-Classes And
Pseudo-Elements](#)

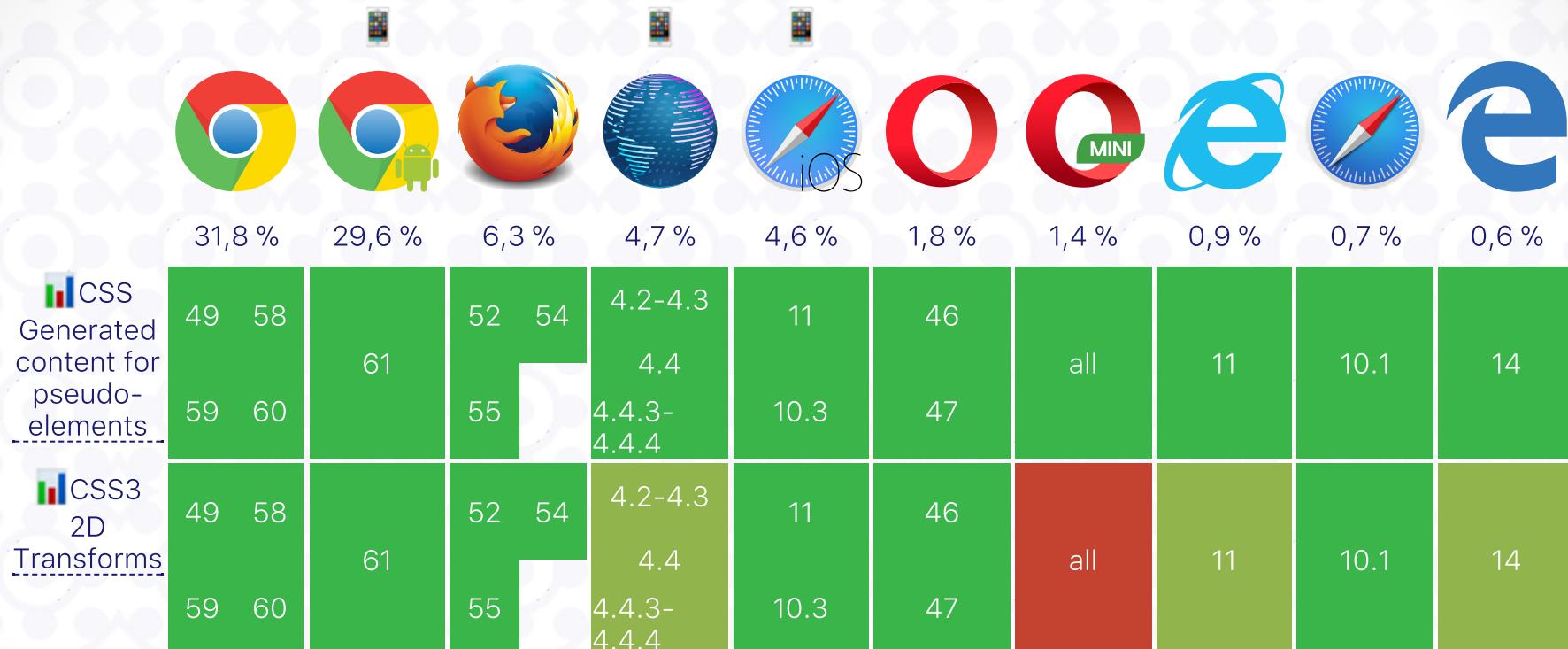
 `::before` et `::after` ne marchent pas sur `input`, `img`,
`iframe` (pas encore spécifié)

- Table et assiette de  [CSS Diner](#)
-  [Dîner des philosophes](#)

Compatibilité

#25

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ANIMATIONS

```
.editable svg path {  
    stroke: purple;  
    stroke-width: 1em;  
    fill: none;  
    stroke-dasharray: 4700;  
    stroke-dashoffset: 4700;  
    animation: draw 2s linear infinite;  
}  
@keyframes draw {  
    to { stroke-dashoffset: 0; }  
}
```



-  Utiliser les animations CSS
- ➡ Text spinners
- ➡ CSS only loaders
-  Animate.css
- ⚜ How SVG Line Animation Works
- ➡ Animated line drawing in SVG
- ➡ CSS triggers

Compatibilité

#29

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PSEUDO CLASSES D'ÉTAT

Usage des info-bulles

#31

Input Text

mandatory field

Mandatory

➡ hover me

Hello Devoxx Morocco

- :hover
- :focus
- :visited
- :checked
- :valid
- :invalid
- :empty
- :active
- :target
- ...

Checkbox Hack

#33

```
.editable input[type=checkbox] + label::before {  
    content: 'Click if you like it';  
}  
  
.editable input[type=checkbox]:checked + label::before {  
    content: '💖💖💖';  
}  
  
fieldset input[type=checkbox] { opacity: 0; }
```

“

The science of operations, as derived from mathematics more especially, is a science of itself, and has its own abstract truth and value.

— Ada Lovelace



Switch

#34

```
.switch + label {  
    display: block;  
    position: relative;  
    padding: .1em;  
    width: 2em;  
    height: 1em;  
    background-color: #ccc;  
    border-radius: 1em;  
    border: medium solid #444;  
    transition: 0.4s;  
}  
  
.switch:checked + label {  
    background-color: green;  
}
```

```
.switch + label::before {  
    display: block;  
    position: absolute;  
    content: '';  
    top: 0.1em;  
    left: 0.1em;  
    height: 1em;  
    width: 1em;  
    background-color: #fff;  
    border-radius: 50%;  
    transition: all 0.25s;  
}  
  
.switch:checked + label::before {  
    transform: translateX(1em);  
}
```

Switch

➡ Hiding Content for Accessibility

```
.panel input[type=checkbox] {  
  position: fixed;  
  left: -100vmax;  
}
```

A screenshot of a web browser window. At the top, there is a dark header bar with a blue checkbox icon on the left and the text "Apollo 11" next to it. Below the header is a white content area containing a quote. The quote is enclosed in blue double quotes and reads: "The computer (or rather the software in it) was smart enough to recognize that it was being asked to perform more tasks than it should be performing. It then sent out an alarm, which meant to the astronaut, I'm overloaded with more tasks than I should be doing at this time and I'm going to keep only the more important tasks; i.e., the ones needed for landing ... Actually, the computer was programmed to do more than recognize error conditions. A complete set of recovery programs was incorporated into the software. The software's action, in this case, was to eliminate lower priority tasks and re-establish the more important ones ... If the computer hadn't recognized this problem and taken recovery action, I doubt if Apollo 11 would have been the successful moon landing it was.[26]" Below the quote, there is a smaller text in gray: "Letter from Margaret H. Hamilton, Director of Apollo Flight Computer Programming MIT Draper Laboratory, Cambridge, Massachusetts[27], titled "Computer Got Loaded", published in Datamation, March 1, 1971".

Principe pour les onglets

#36

```
<div class="tabs">
  <input type="radio" name="tab" id="home" checked>
  <input type="radio" name="tab" id="projects">
  <input type="radio" name="tab" id="about">
  <nav>
    <label for="home">Home</label>
    <label for="projects">Projects</label>
    <label for="about">About</label>
  </nav>
  <div data-for="home">Home page</div>
  <div data-for="projects">Projects page</div>
  <div data-for="about">About page</div>
</div>
```

Démo des onglets

#37



Compatibilité

#38

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31,8 %	29,6 %	6,3 %	4,7 %	4,6 %	1,8 %	1,4 %	0,9 %	0,7 %	0,6 %
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	49	58	61	52	54	4.2-4.3	11	46	all	11	10.1	14
CSS3 selectors	49	58	61	52	54	4.2-4.3	11	46	all	11	10.1	14
Form validation	49	58	61	52	54	4.2-4.3	11	46	all	11	10.1	14
CSS3 3D Transforms	49	58	61	52	54	4.2-4.3	11	46	all	11	10.1	14
	59	60		55		4.4						
	4.4.3-	4.4.4		4.4.3-	4.4.4		10.3					

CONCLUSION

1. Utilisez du CSS pour simplifier le code
2. Utilisez intelligemment les pre/post-processeurs
3. HTML, SVG are Awesome !
4. JavaScript, TypeScript can be Awesome !

👉 Traitez le CSS comme du code

1. Revue de code
2. DRY
3. Clean Code
4. Single Responsibility Principle
5. ...

-  [les slides en HTML](#)

-  [les slides en PDF](#)

-  [le code](#)

- [Blog: 'Making Of'](#)

- (Ctrl|⌘) + Shift + i
- ➡ CSS Secrets by Lea Verou
- 🖥 CSS sur MDN , ➡ The A11Y Project
- ➡ CodePen , ➡ JSFiddle , ➡ Dabblet ,...
- ⚜ CSS Tricks , 💬 Smashing Magazine
- 🐫 CSS Flags , ➡ A Single Div

CSS
is
Awesome!