

**CSS
IS
AWESOME!**

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➡ The Rule of Least Power

[<https://www.w3.org/2001/tag/doc/leastPower.html>](https://www.w3.org/2001/tag/doc/leastPower.html)

“
When designing computer systems, one is often faced with a choice between using a more or less powerful language for publishing information, for expressing constraints, or for solving some problem. This finding explores tradeoffs relating the choice of language to reusability of information. The "Rule of Least Power" suggests choosing the least

1. Texte
2. HTML (sémantique) & CSS (layout, style, animations simples)
3. SVG (formes et animations complexes)
4. JavaScripts

⚠️... mais il y a toujours de bonnes raisons pour ne

- Selectors
- Box model
- Float
- Media Query
- Transitions
- Responsive Design
- Media
- Variables
- Colors
- Shapes

I. Utiliser un pré-processeur ?

II. Unités

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VII. HTML

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Utiliser un
pré-processeur ?

Bordure des boutons

```
button {  
  background: lightblue;  
  border: medium solid purple;  
}  
button.danger { /*  
  background: salmon;  
  color: rebeccapurple; */  
}
```


Alors utilise-t-on un pré-processeurs ?

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Oui, mais privilégiez:

- le CSS
 - les post-processeurs
-
- ➡ `currentColor` <<https://css-tricks.com/currentcolor/>>
 - ➡ `background-origin`
<<https://developer.mozilla.org/fr/docs/Web/CSS/background-origin>>
 - ➡ CSS Variables (aka Custom Properties)
<<https://www.w3.org/TR/css-variables/>>

Unités

Une histoire d'unités CSS

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px, cm, pt, ... longueurs absolues (mesure physique)

em, rem fonction de la font-size

ex, ch hauteur d'un x, largeur d'un 0

vh, vw (100vh, 100vw) = (hauteur, largeur) du *viewport*

Holy Grail avec calc

#12

Header		
Menu	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequatur corporis dicta libero placeat quas? Dicta dolore, aliquid, et in, ita, iusto, laboriosam. Laudantium, porro, perferendis, quos, soluta, unde, vel, voluptas! Ut?	Side

- ➡ Unités <<https://developer.mozilla.org/fr/docs/Web/CSS/length>> et [Truc et astuces](<https://www.w3.org/Style/Examples/007/units.fr.html>)>

Flexbox et Grid

Holy Grail avec grid

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Header		
Menu	Lorem ipsum dolor sit amet, consectetur adipisicing elit. Consequatur corporis dicta libero placeat quas? Dicta dolore, aliquid, et in, itaque, iusto, laboriosam. Laudantium, porro, perferendis, quos, soluta, unde, vel, voluptas! Ut?	Side

Flexbox

- ➡ Flexbox, et le CSS redevient fun ! (Hubert SABLONNIÈRE) <https://www.youtube.com/watch?v=5F_ngjHDcjQ>
- ➡ Solved by Flexbox <<https://philipwalton.github.io/solved-by-flexbox/>>
- ➡ Flexbox Froggy <<https://flexboxfroggy.com/>>

Grid

- ➡ Grid by examples <<https://gridbyexample.com/>>
- ➡ CSS Grid Changes Everything (About Web Layouts) by Morten Rand-Hendriksen <https://www.youtube.com/watch?v=txZq7Laz7_4>
- ➡ Grid Garden <<http://cssgridgarden.com/>>

Pseudo éléments

Le dinner d'un philosophe

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```
.table {  
  color: gray;  
  font-size: 5em;  
  /*content: ' '*/  
}
```

Triangle avec des bordures

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

```
.popover {  
  position: relative;  
  background: teal;  
}  
  
/* .popover::before {  
  position: absolute;  
  z-index: 0;  
  content: '';  
  top: 0em; left: 0em;  
  border: 1em solid red;  
  border-top-color: red;  
}*/
```

Bilan pseudo éléments

- ➡ The :before and :after pseudo-elements
<https://www.w3.org/TR/CSS22/generate.html#before-after-content>
- mais aussi ::first-letter, ::first-line, ::selection, ::backdrop
- ➡ An Ultimate Guide To CSS Pseudo-Classes And Pseudo-Elements <https://www.smashingmagazine.com/2016/05/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 <https://flukeout.github.io/>
- ➡ Dîner des philosophes

Animations

Texte de chargement

```
.loader {
  display : inline-block;
  white-space : normal;
  height: 1em;
  line-height : 1.5;
  overflow: auto;
  box-shadow : 0 0 0 .05em red;
}

.loader::before {
  display : inline-table;
  /*content: '0\ a 1\ a 2\ a 3\ a 4\ a 5\ a 6\ a 7\ a 8\ a 9\ a';*/
  /*content: ':\ a :\ a :\ a :\ a :\ a :\ a :\ a :\ a :\ a :\ a';*/
  /*animation: spin 5s infinite;*/
}

@keyframes spin {
  to { transform : translateY(-15em); }
}
```

```
svg path {  
  stroke: purple;  
  stroke-width: .1em;  
  fill: none;  
  /*stroke-dasharray: 0;*/  
  /*stroke-dashoffset: 0;*/  
  /*animation: draw 4s linear;*/  
}  
  
@keyframes draw {  
  to { stroke-dashoffset: 0; }  
}
```

- ➡ Utiliser les animations CSS

https://developer.mozilla.org/fr/docs/Web/CSS/Animations_CSS/Utiliser_les_animations_CSS

- ➡ Text Spinner <http://tawian.io/text-spinners/>

- ➡ CSS only loader <https://www.pexels.com/blog/css-only-loaders/>

- ➡ Animate.css <https://daneden.github.io/animate.css/>

- ➡ How SVG Line Animation Works [https://css-tricks.com/svg-](https://css-tricks.com/svg-line-animation-works/)

[line-animation-works/](https://css-tricks.com/svg-line-animation-works/)

- ➡ `<progress>`

Pseudo classes d'état

Usage des info-bulles

Input Text

mandatory field

Mandatory

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

```
.like input[type=checkbox] + label {  
    box-shadow: 0 0 0 1px red;  
}  
.like input[type=checkbox] + label::before {  
    content: '';  
}  
.like input[type=checkbox] + label::before {  
    content: '';  
}  
.like fieldset input[type=checkbox] { opacity: 1; }
```

```
.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);  
}
```



```
.panel input[type=checkbox] {  
    /* hide me */  
}
```

Principe pour les onglets

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Démo des onglets

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7eTmL

```
details {  
  border: medium solid currentcolor;  
  border-radius: .25em;  
  width: 100%;  
}  
  
details summary {  
  background: #888; color: #eee;  
}
```

```
.editable dialog {  
  border: medium solid rgba(0, 0, 0, 0.3);  
  border-radius: .125em;  
  padding: .125rem;  
  box-shadow: .25em .25em .125em rgba(0, 0, 0, 0.42);  
}  
  
/* .editable dialog::backdrop {  
  position: fixed;  
  top: 0; right: 0; bottom: 0; left: 0;  
  background-color: rgba(0, 0, 0, 0.8);  
} */
```

- ➡ Collapsible Panel Polyfill <<https://github.com/chemerisuk/better-details-polyfill/>>

Compatibilité des navigateurs

➡ **caniuse** <<http://caniuse.com>>

➡ **The CSS3 / CSS4 Test** <<http://css3test.com>>

IE 7+, Firefox, Chrome Pseudo classes (CSS3 selectors 93)

IE 8+, Firefox, Chrome ::before, ::after 98

IE 9+, Firefox, Chrome currentColor 98

background-origin 98 box-shadow 98

calc 97 vh, vw, ... 97

IE 10+, Firefox, Chrome flexbox 98

Conclusion

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

👉 Traitez le CSS comme du code

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

- ➡ les slides <>

- ➡ le code <>

Pour apprendre

- (Ctrl|Cmd) + Shift + i



- ➡ CSS Secret by Lea Verou

<https://www.amazon.fr/CSS-Secrets-Lea-Verou/dp/1449372635>

- ➡ CSS sur MDN <https://developer.mozilla.org/fr/docs/Web/CSS>
- ➡ CodePen <https://codepen.io/> , ➡ JSFiddle <https://jsfiddle.net/> ,
- ➡ Dabblet <http://dabblet.com/> ,...
- ➡ CSS Tricks <>
- ➡ Shop Talk Show <>

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