

SEPT. 2018
JEREMIE PATONNIER

 @JEREMIEPAT

PRODUIRE DU SVG POUR LE WEB

UN PEU D'HISTOIRE

IL ÉTAIT UNE FOIS... LES SPÉCIFICATIONS

▶ 2001: SVG 1.0

<https://www.w3.org/TR/SVG10/>

▶ 2008: SVG Tiny 1.2

<https://www.w3.org/TR/SVGTiny12/>

▶ 2011: SVG 1.1

<https://www.w3.org/TR/SVG11/>

▶ *Travail en cours:*

- ▶ SVG 2.0 <https://www.w3.org/TR/SVG2/>
- ▶ SVG AAM <https://www.w3.org/TR/svg-aam-1.0/>
- ▶ SVG 2.1 <https://svgwg.org/svg-next/>
- ▶ SVG Animations 2 <https://svgwg.org/specs/animations/>
- ▶ SVG Streaming <https://svgwg.org/specs/streaming/>

▶ *Avec CSS aussi:*

- ▶ CSS Transforms Module Level 1
<https://www.w3.org/TR/css-transforms-1/>
- ▶ CSS Masking Module Level 1
<https://www.w3.org/TR/css-masking-1/>
- ▶ Filter Effects Module Level 1
<https://www.w3.org/TR/filter-effects-1/>

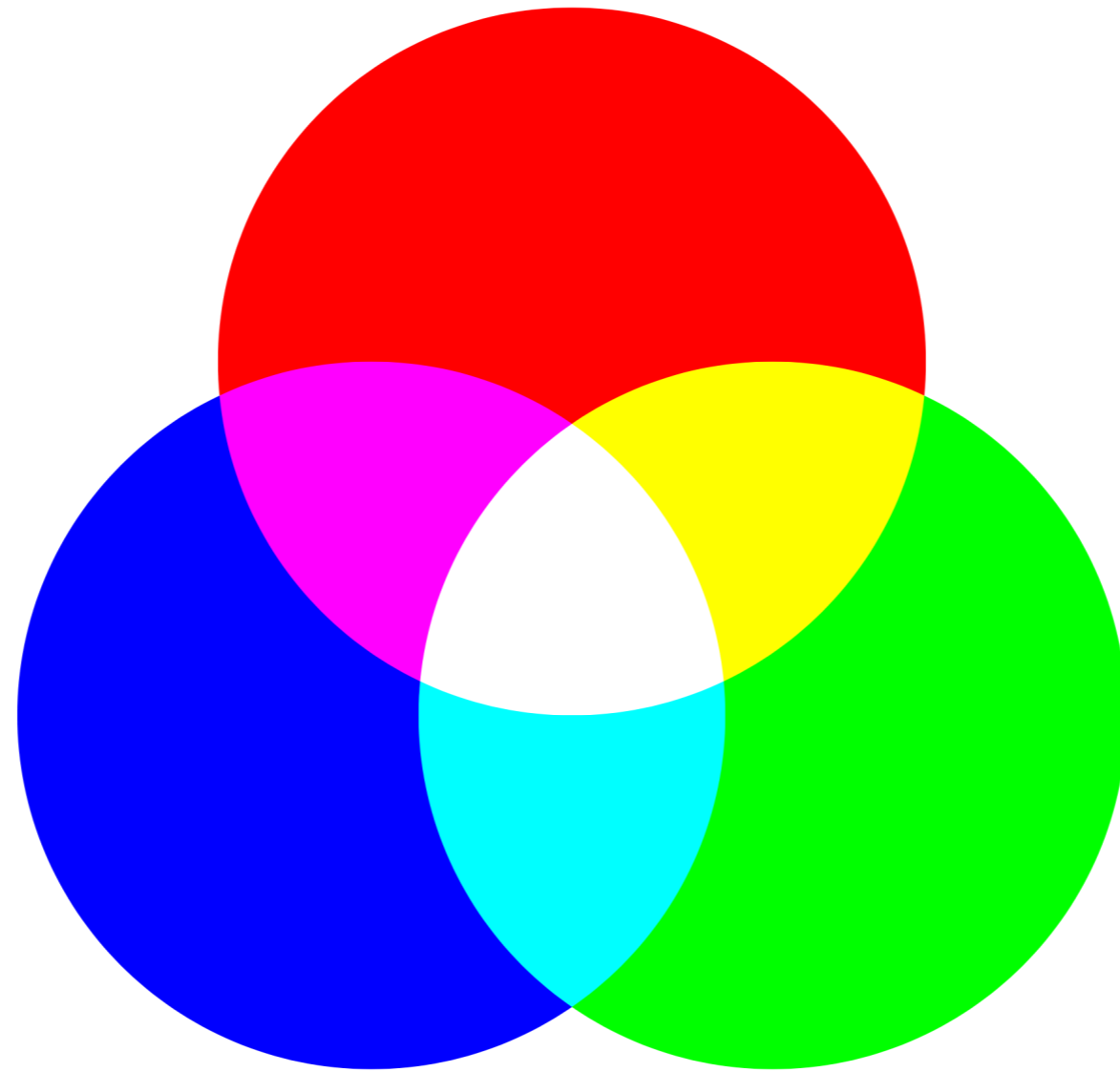
IL ÉTAIT UNE FOIS... LES IMPLÉMENTATIONS

- ▶ 2005 (Avril): Opera 8.0
- ▶ 2005 (Novembre): Firefox 1.5
- ▶ 2008 (Mars): Safari 3.1
- ▶ 2008 (Décembre): Chrome 1.0
- ▶ 2011 (Mars): Internet Explorer 9.0

ET SINON, EN VRAI ?

ET SINON, EN VRAI ?

UN PETIT EXEMPLE POUR LA ROUTE



ET SINON, EN VRAI ?

LES LOGICIELS DE DESSINS VECTORIEL

- ▶ **Adobe Illustrator** (Win, Mac) €€

<https://www.adobe.com/fr/products/illustrator.html>

- ▶ **Inkscape** (all)

<https://inkscape.org/fr/>

- ▶ **Sketch** (Mac) €

<https://www.sketchapp.com/>

- ▶ **Corel Draw** (Win) €€€

<https://www.coreldraw.com/fr/product/logiciel-de-dessin/>

- ▶ *Et bien d'autres:*

- ▶ Online: Vectr <https://vectr.com>, Gravit <https://gravit.io/>
- ▶ Plugin: Blender https://docs.blender.org/manual/fr/dev/render/freestyle/export_svg.html
- ▶ etc.

DES RÉSULTATS... VARIABLES

▶ La version 🤪

Mauvaise stratégie et mauvais éditeur

▶ La version 😬

Mauvaise stratégie mais bon éditeur

▶ La version 😎

Bonne stratégie et bon éditeur

▶ La version 😍

La bonne stratégie à la main

ET SINON, EN VRAI ?

LA VERSION 🤪

```
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92.26L78.38 92.77L77.2 93.23L75.99 93.63L74.77 93.99L73.52 94.3L72.25 94.55L70.96 94.75L69.66 94.89L68.34 94.98L67 95.01L65.67 94.98L64.35 94.89L63.04 94.75L61.75 94.55L60.49 94.3L59.24 93.99L58.01
93.63L56.8 93.23L55.62 92.77L54.46 92.26L53.33 91.71L52.23 91.12L51.15 90.48L50.1 89.79L50 89.72L50.92 89.07L51.9 88.3L52.85 87.49L53.77 86.65L54.65 85.77L55.49 84.85L56.3 83.9L57.06 82.92L57.79 81.9L58.47
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37.23L77.2 36.78L76 36.37L74.77 36.01L73.52 35.71L72.25 35.45L70.96 35.26L69.66 35.11L68.34 35.03L67 35L65.67 35.03L64.35 35.11L63.04 35.26L61.75 35.45L60.49 35.71L59.24 36.01L58.01 36.37L56.8 36.78L55.62
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ET SINON, EN VRAI ?

LA VERSION 🤔

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```

ET SINON, EN VRAI ?

LA VERSION 🧐

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  <!-- Generator: Sketch 51.3 (57544) - http://www.bohemiancoding.com/sketch -->
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  <defs></defs>
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    <circle id="green" fill="#00FF00" style="mix-blend-mode: screen;" cx="67" cy="65" r="30"></circle>
    <circle id="blue" fill="#0000FF" style="mix-blend-mode: screen;" cx="33" cy="65" r="30"></circle>
  </g>
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ET SINON, EN VRAI ?

LA VERSION 🌟😄

```
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  circle {
    mix-blend-mode: screen;
  }
  </style>

  <circle cx="50" cy="35" r="30" fill="hsl( 0,100%,50%" />
  <circle cx="67" cy="65" r="30" fill="hsl(120,100%,50%" />
  <circle cx="33" cy="65" r="30" fill="hsl(240,100%,50%" />
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Pro tip: [Calcul des vertex des polygones réguliers](#)

C'EST L'HEURE DU MÉNAGE !

C'EST L'HEURE DU MÉNAGE !

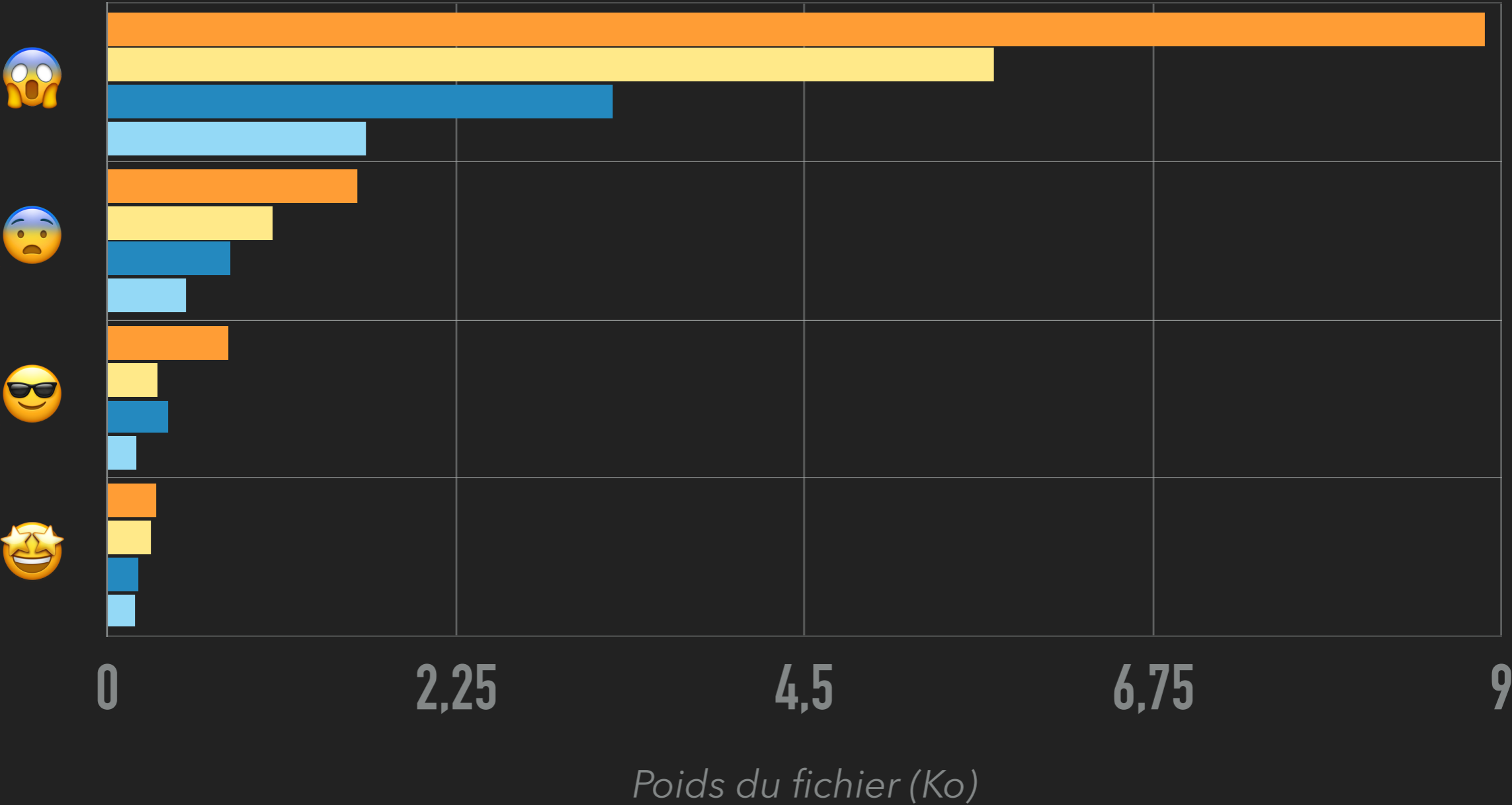
LE SEUL ET L'UNIQUE: SVGO

- ▶ <https://github.com/svg/svggo>
- <https://jakearchibald.github.io/svgomg>

♥ cleanup attributes	🔴 remove XMLNS	⚠️ convert style to attributes	♥ cleanup numeric values	♥ remove dimensions
⚠️ inline styles	♥ remove editors data	♥ convert colors	⚠️ cleanup list of values	⚠️ remove attributes by pattern
♥ remove doctype	♥ remove empty attributes	♥ convert path data	⚠️ move elements' attr to group	⚠️ remove elements by ID or cls
♥ remove XML prologue	⚠️ remove hidden elements	⚠️ convert transform	⚠️ move group attr to elements	⚠️ add classes to root
♥ remove comments	♥ remove empty text	♥ remove unknowns & defaults	♥ collapse groups	⚠️ add attributes to root
♥ remove metadata	♥ remove empty containers	♥ remove non inheritable group attr	⚠️ remove raster images	⚠️ remove style element
⚠️ remove title	🔴 remove viewBox attribute	♥ remove useless stroke & fill	⚠️ merge paths	⚠️ remove script element
⚠️ remove description	♥ cleanup enable-background	♥ remove unused namespaces	⚠️ convert shape to path	
♥ remove useless defs	♥ minify styles	⚠️ cleanup IDs	♥ sort attributes	

C'EST L'HEURE DU MÉNAGE !

DES RÉSULTATS CONCRETS



LA MAGIE DU WEB

JAVASCRIPT ❤️ SVG

▶ Bibliothèques génériques:

- ▶ SVGJS <http://svgjs.com/>
- ▶ Snap.svg <http://snapsvg.io/>
- ▶ Bonsai <https://bonsaijs.org/>

▶ Visualisation de données:

- ▶ [D3.js](#)
- ▶ Graph: [Chartist](#), [Contour](#), [Highcharts](#), [Plotly](#), [uvChart](#), [etc.](#)

▶ Effets spéciaux

- ▶ Morphing effects: [SVG Morpheus](#)
- ▶ Drawing effects: [Vivus](#)
- ▶ Progress Bars: [ProgressbarJS](#)

ET ENCORE D'AUTRE OUTILS

- ▶ Icônes, icônes, icônes
 - ▶ Générateur de fontes: [Fontello](#), [Glyphter](#), [Icomoon](#), etc.
 - ▶ Près à l'emploi: [Icofont](#), [The Noun Project](#), etc.
- ▶ Bitmap vs. Vecteur
 - ▶ Bitmap to SVG:
 - ▶ <https://vectormagic.com/>
 - ▶ SVG to Bitmap:
 - ▶ <https://wiki.gnome.org/Projects/LibRsvg>
 - ▶ <http://sharp.pixelplumbing.com/en/stable/>

CONCLUSION

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- ▶ Prendre le temps de bien choisir ses outils
- ▶ Pratiquer le SVG « à la vanille » encore et encore
- ▶ SVG c'est du web, il faut utiliser tout ce qu'offre le web

MERCI 🥰