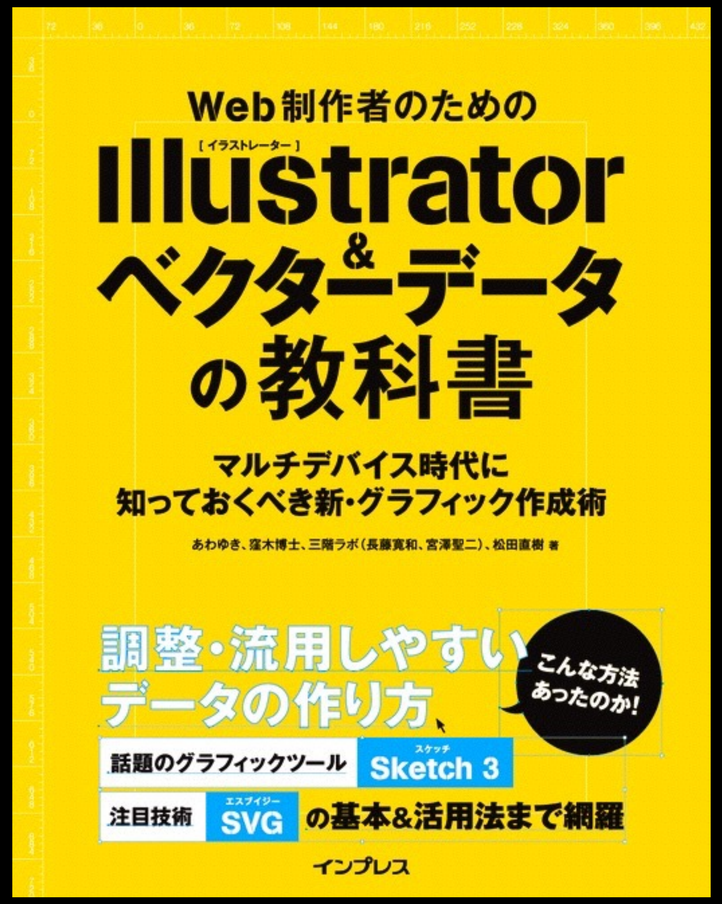
株式会社まぼろし
松田直樹

株式会社まぼろし
松田直樹



Web制作者のための Illustrator＆ベクターデータの教科書

あわゆき，窪木 博士，三階ラボ（長藤寛和、宮澤聖二），松田 直樹

はまる【嵌まる・填まる・塡まる】

① ぴったり合ってはいる。

② 川・池などに落ち込む。 「深みにー・る」 「溝にー・る」 「果は借金の淵ふちにー・り／浮雲 四迷」

③ 計略にかけられる。 「わなにー・る」 「思うつぼにー・る」

④ 条件にぴったり合う。適合する。あてはまる。 「役にー・っている」

⑤ （「型にはまる」の形で）行動・表現などが類型的である。 「型にー・った文章」 「型にー・った教育」

⑥ 専念する。また，夢中になって身動きがとれなくなる。現代でも俗語的に用いる。 「今パソコンにー・っている」 「世間ノ事ニー・ル／日葡」 「粋らしき男はー・らせ／浮世草子・一代男 6」 〔「はめる」に対する自動詞〕

大辞林 第三版より

SVGに夢中にもなれば、罠にもかかる

SVGに夢中にもなれば、罠にもかかる

SVGの利用状況

アニメーション＆インタラクション

Animation & Interaction

the world's first buses

John Greenwood is rumoured to have established the first omnibus service in 1824. As the keeper of a toll gate in Pendleton on the Manchester to Liverpool turnpike, he purchased a horse and a cart with several seats, and offered a service where, unlike a stagecoach, no prior booking was necessary. The driver would pick up or drop off passengers anywhere on request. Steam buses, trolleybuses and motor buses soon followed.

https://arrivabusandcoach.co.uk/buses-the-weird-and-wonderful

https://fleximize.com/mission/

ビジュアライゼーション

Visualization

EU REFERENDUM

Results

Share

UK votes to **LEAVE** the EU

Leave
51.9%
17,410,742 VOTES

Remain
48.1%
16,141,241 VOTES

0 results left to declare

LEAVE UK votes to **LEAVE** the EU

Electorate	46,501,241	
Turnout		72.2%
Rejected ballots		26,033

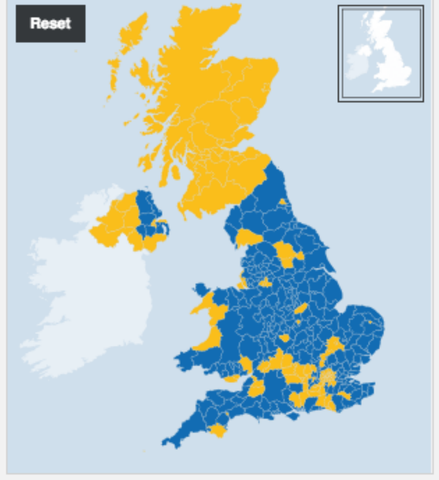
How results are calculated

UK votes to leave the EU

The UK has voted to leave the EU by 52% to 48%. Leave won the majority of votes in England and Wales, while every council in Scotland saw Remain majorities. **Follow latest updates and reaction.**

Find local results

Enter a postcode, council name or NI constituency



Key:
Majority leave
Majority remain
Tie
Undeclared

Nation results

England

Leave **53.4%**
15,188,406 VOTES

Remain **46.6%**
13,266,996 VOTES

Counting complete — Turnout: 73.0%

Northern Ireland

Leave **44.2%**
349,442 VOTES

Remain **55.8%**
440,707 VOTES

Counting complete — Turnout: 62.7%

Scotland

Leave **38.0%**
1,018,322 VOTES

Remain **62.0%**
1,661,191 VOTES

Counting complete — Turnout: 67.2%

Wales

Leave **52.5%**
854,572 VOTES

Remain **47.5%**
772,347 VOTES

Counting complete — Turnout: 71.7%

http://www.bbc.com/news/politics/eu_referendum/results

ALL OLYMPIC GOLD MEDAL WINNERS

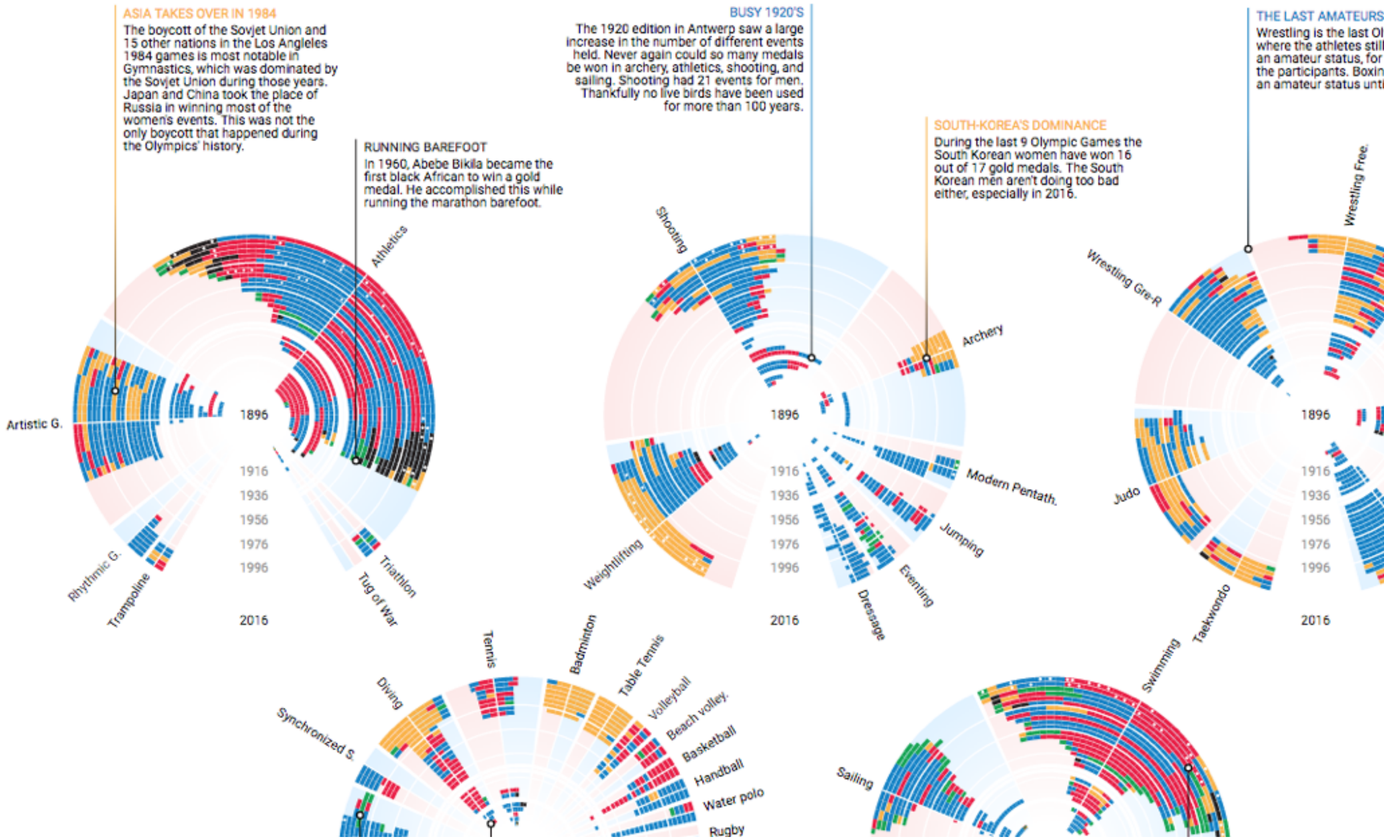
summer editions since 1896

More than 5000 Olympic events have had a winner, rewarded with a gold medal from 1904 onwards, in the Summer Olympics since the first games of 1896. Investigate the visuals below to see how each of these medals has been won in the 56 different sporting disciplines that have competed at the games, of which 41 are still held at Rio 2016.

Most of the Olympic sports started out being a men only event. Thankfully this started to change during the 2nd half of the last century. Even the number of medals that can be won for one discipline is slowly becoming the same for both genders. Today at Rio there are 3 disciplines left in which only one gender can compete; the Greco-Roman wrestling, already at the games since the very first edition, is done solely by men. Rhythmic gymnastics & synchronized swimming on the other hand, both at the Olympics since 1984, are only performed by women.

Although Rio could have been celebrating the 31st Olympic Games, 3 editions have been canceled, due to WW I in 1916 and WW II in 1940 & 1944. And yes, Tug of war has truly been part of 5 Olympic Games, from 1900 to 1920. Hover over the medals to see the winning athlete or team or hover over the time-line in the bottom of each circle to find your own interesting stories.

Instead of a medal being represented by a specific width, in these visuals 1 medal always has the same arc length. This makes sure that the more recent the edition of the games, the more emphasis it gets due to the increasing size of the ring.



https://nbremer.github.io/olympicfeathers/

8:08am

SLOW | MEDIUM | **FAST**

It's wake up time for most. Time to start the day with morning rituals, breakfast and a wonderful commute.

This is a simulation of 1,000 people's average day. It's based on 2014 data from the American Time Use Survey, made way more accessible by the ATUS Extract Builder.

of-americans/

ロゴ

Logos

The New York Times
日本経済新聞
NATIONAL GEOGRAPHIC
Google
Microsoft
Yandex
KONICA MINOLTA
chatwork
Atlassian
UPJ

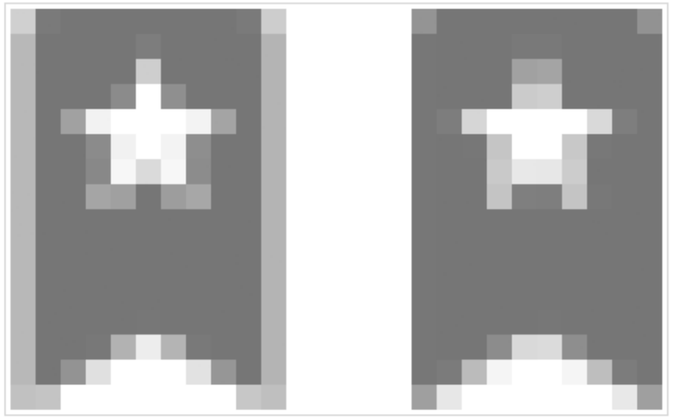
アイコン

Icons

Delivering Octicons with SVG

February 22, 2016 aaronshekey Engineering

GitHub.com no longer delivers its icons via icon font. Instead, we've replaced all the Octicons throughout our codebase with SVG alternatives. While the changes are mostly under-the-hood, you'll immediately feel the benefits of the SVG icons.



Switching to SVG renders our icons as images instead of text, locking nicely to whole pixel values at any resolution. Compare the zoomed-in icon font version on the left with the crisp SVG version on the right.

Why SVG?

Icon font rendering issues

Icon fonts have always been a hack. We originally used a custom font with our icons as

Featured
All Posts
New Features
Engineering
Enterprise
Conferences
Meetups
New Hires
Watercooler
Subscribe

GitHub Universe
The event for people building the future of software, September 13-15 in San Francisco. Learn more

Sara SOUEIDAN

is an award-winning freelance front-end Web developer, author & speaker from Lebanon, working with clients across the globe, building fast, responsive & accessible Web sites & applications.

Follow @SaraSoueidan 36.9K followers

Making the Switch Away from Icon Fonts to SVG: Converting Font Icons to SVG

Published April 25, 2016 | Estimated Reading Time: 6 min

If you're reading this article, then I can probably assume you've already decided to switch from using fonts for icons to an SVG icon system. Or maybe you're pondering the idea and want to get an overview of how that would be done and whether or not it's worth it. Either way, this post is here to help you with that.

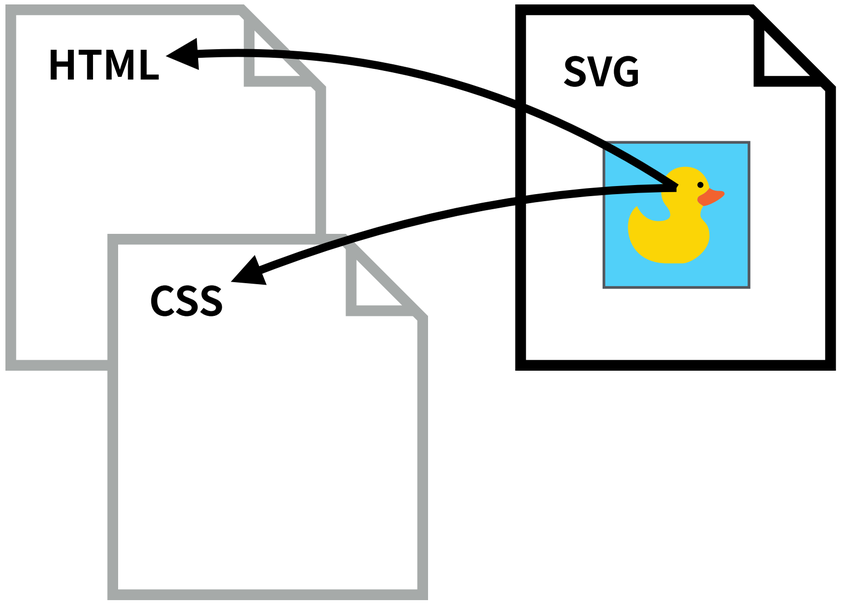
今回は、派手な使われ方よりも

地味な使われ方での罠に注目してみましょう

その前に、SVGの特徴

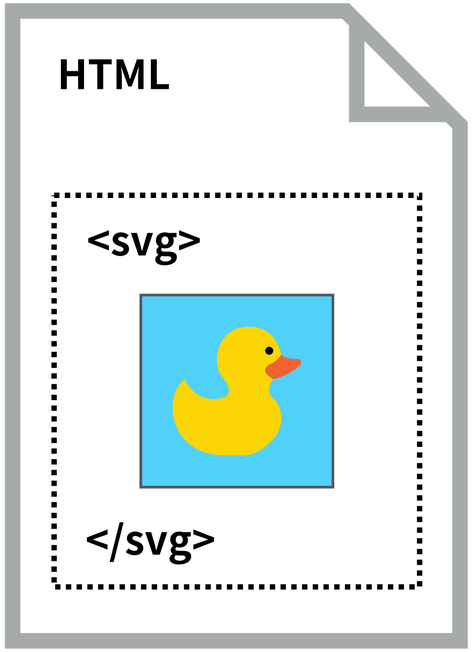
普通の画像と異なる特徴

Standalone SVG



普通の画像ファイルとして表示させる

inline SVG

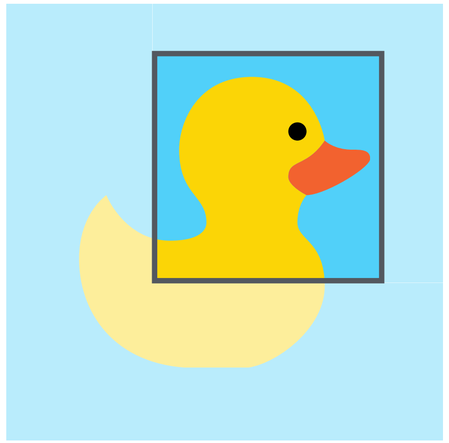


HTMLの中に、SVGコードを直接書く

普通の画像と異なる特徴

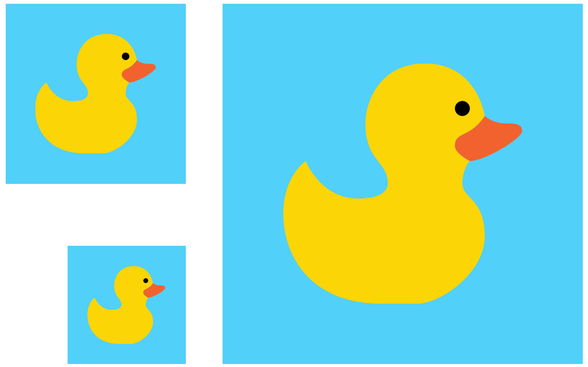
viewBox

描画領域の座標系を定義



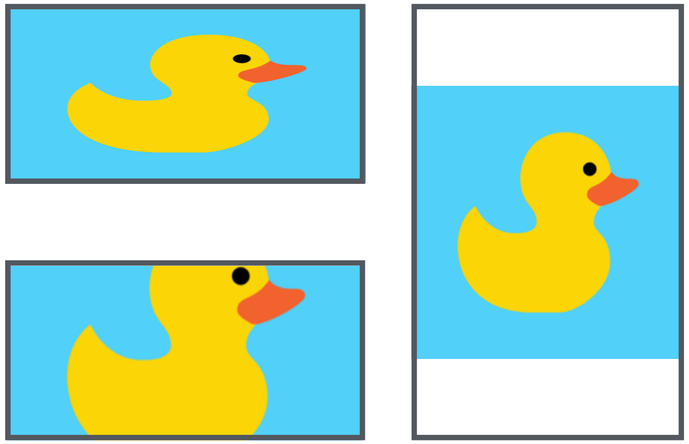
width, height

実寸のサイズ指定



preserveAspectRatio

拡縮時のアスペクト比保持方法の指定



SVGのハマるポイント

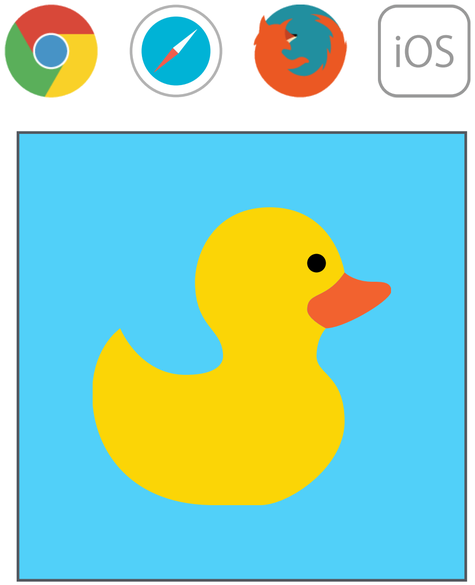
10選

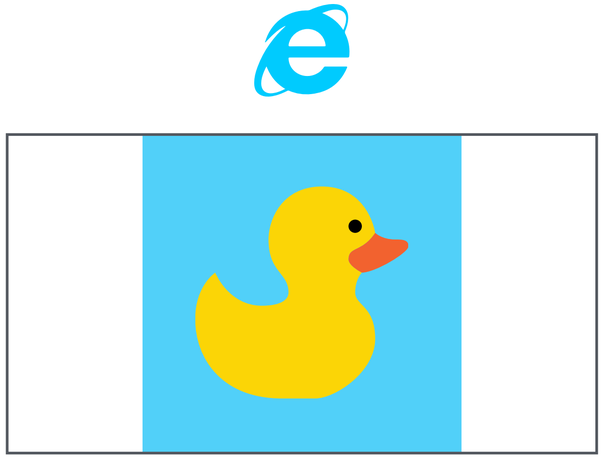
ハマるSVG

01

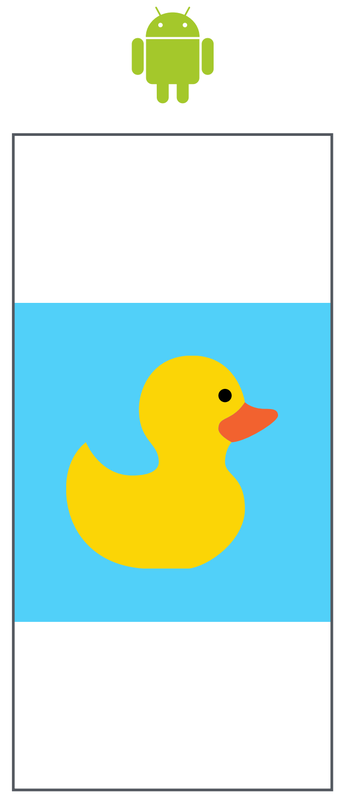
IEとAndroid 4.3以下でハマる

IE, AndroidでSVGの比率がおかしい





inline SVG の場合



4.2 / img要素の場合

なぜ？ SVGの高さ・幅が指定されていない

```
<svg viewBox="0 0 200 200">
  …
</svg>
```

なぜ？ **SVGの高さ・幅が指定されていない**

inline SVG には
height: auto; が効かない

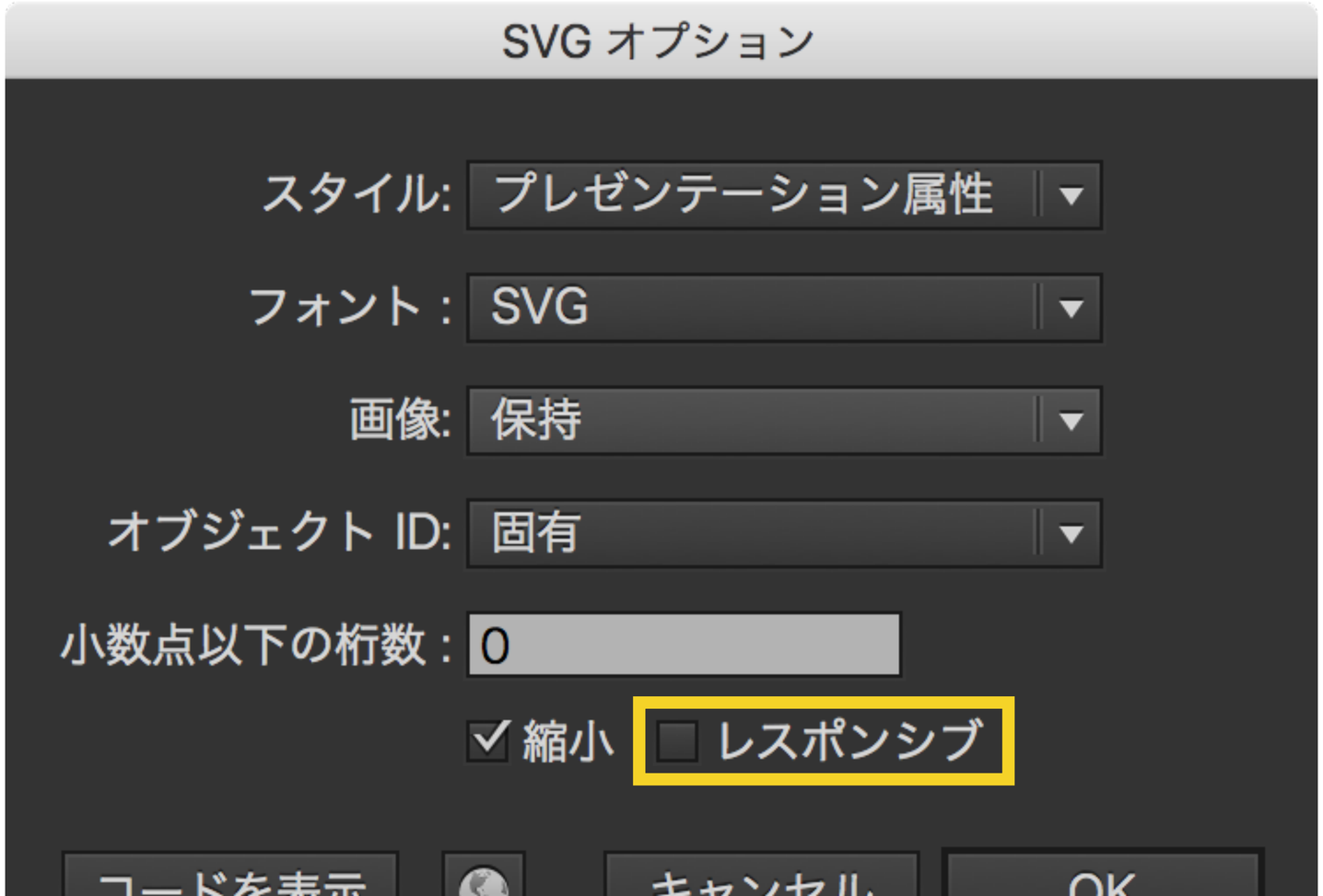
preserveAspectRatioの
挙動にバグがある

解決　svg要素に、width, height をpxで指定

```
<svg viewBox="0 0 200 200"
     width="200px" height="200px">
  …
</svg>
```

* CSSでの、width,height指定でも可

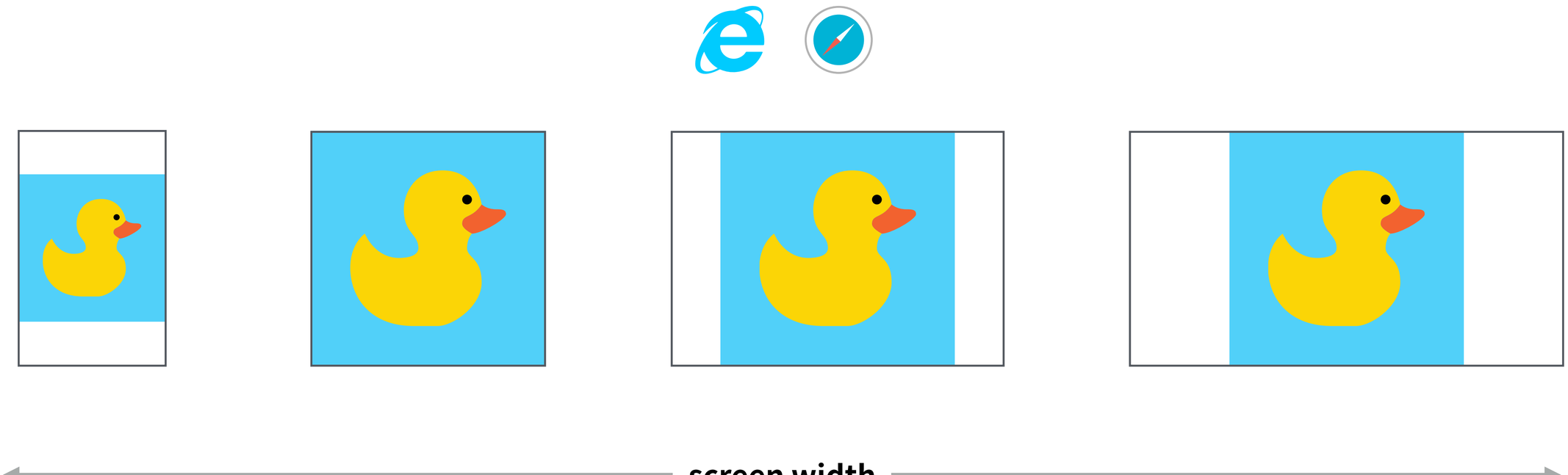
解決　Aiの「レスポンシブ」にチェックしない



02

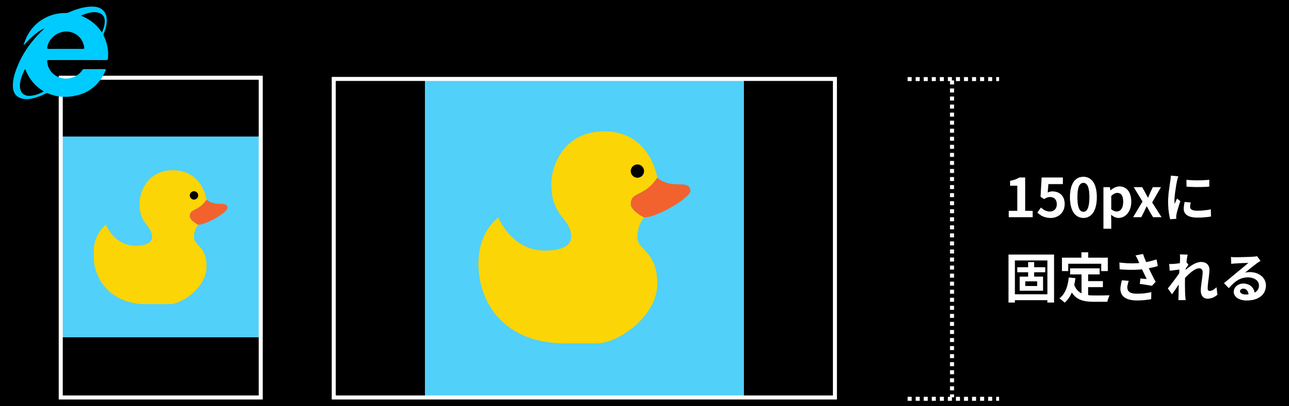
inline SVG の Fluid 化でハマる

IE, Safariで inline SVG がFluidにならない



なぜ？ **IEでは、height: auto; が効かない**

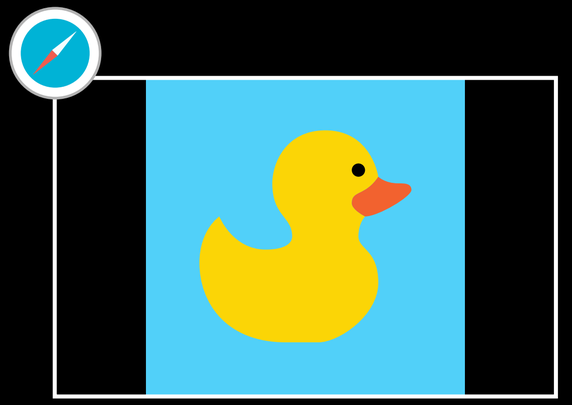
```
svg {
  height: auto;
}
```



* HTML5 Canvas の仕様と同じ

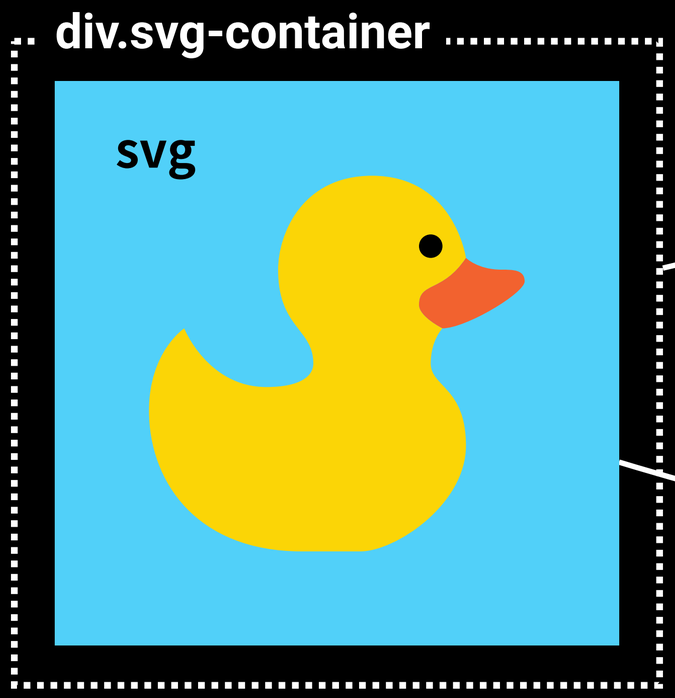
なぜ？ Safari、CSSがheight属性を超えられない

```
<svg width="200px"
height="200px"
viewBox="0 0 200 200"
style="width: 300px;
height: auto">
```



height属性が
優先される

解決 padding hack したdiv要素で囲う



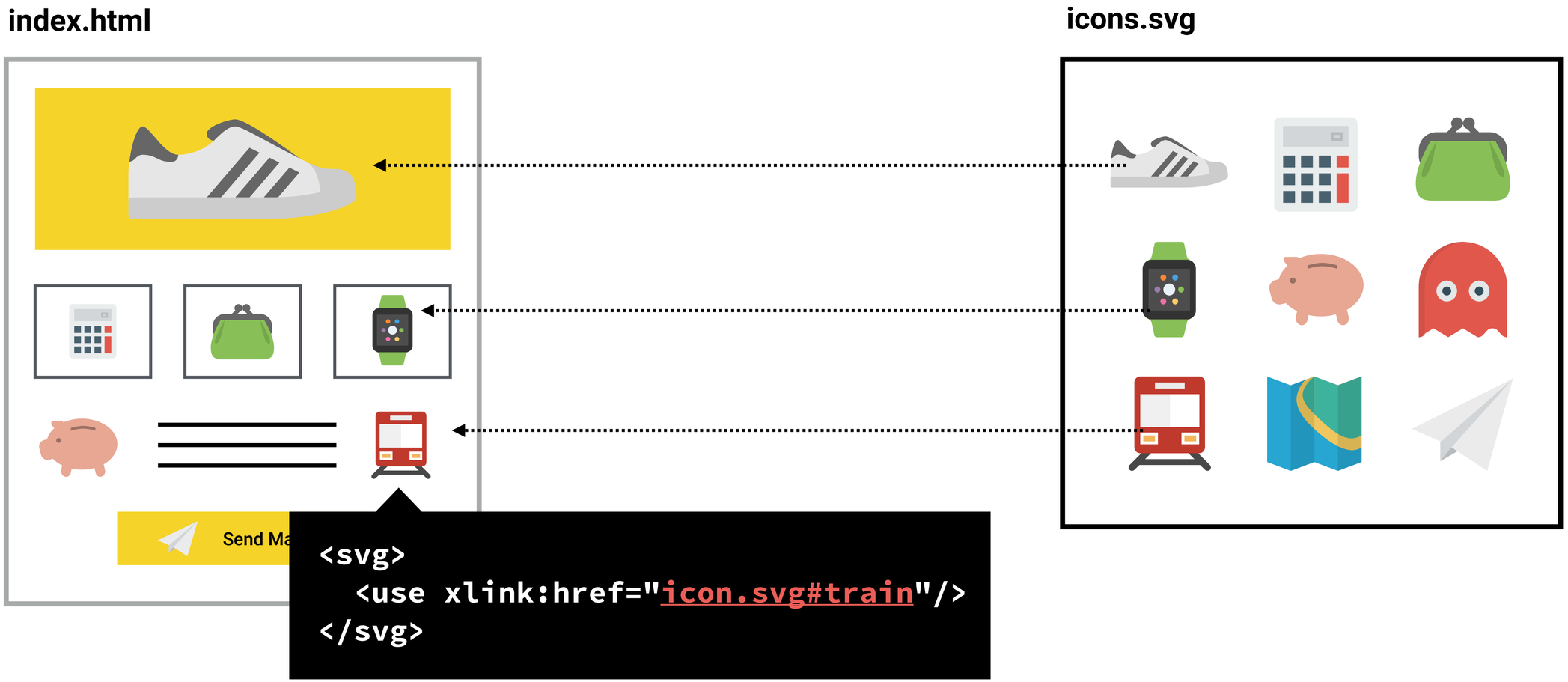

```
.svg-container {
  position: relative;
  height:0;
  padding-top: calc(100%/200*200);
}
```

```
.svg-wrap > svg {
  display: block;
  position: absolute;
  width: 100%;
  height: 100%;
}
```

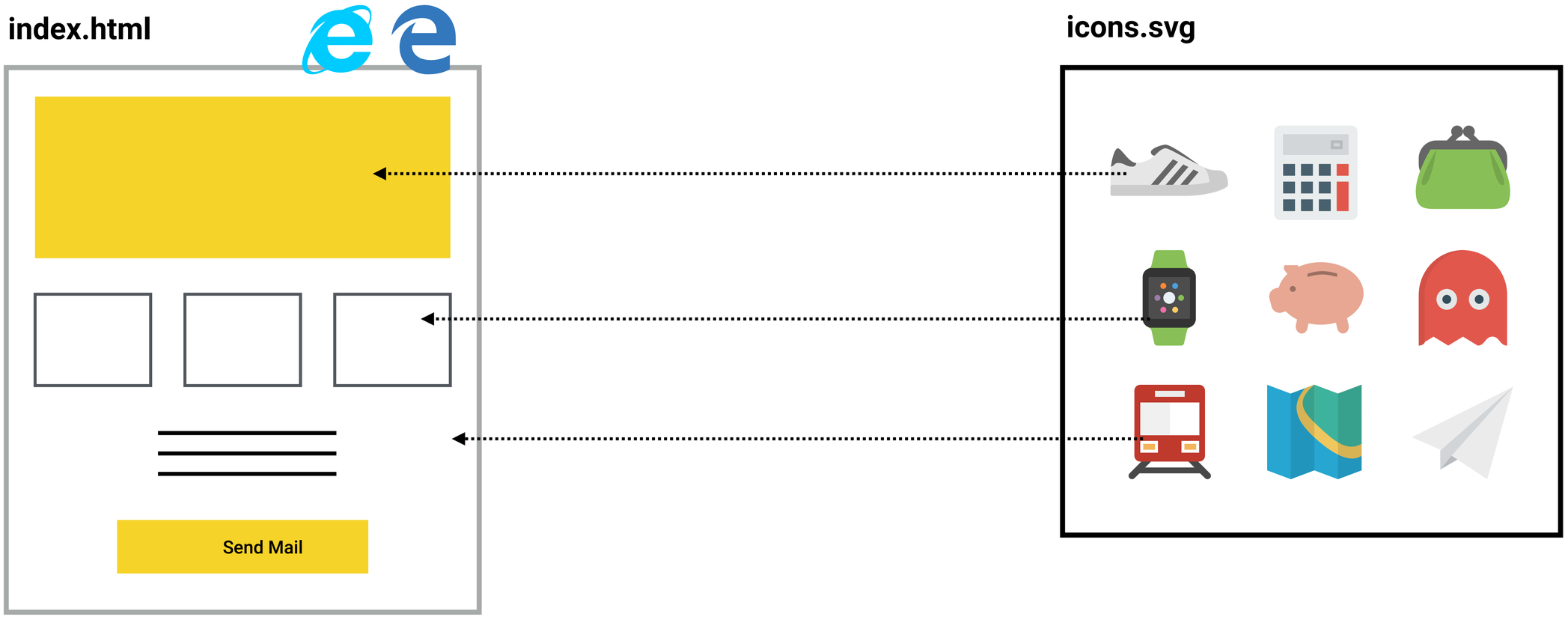
03

SVG Sprites (SVG Store) でハマる

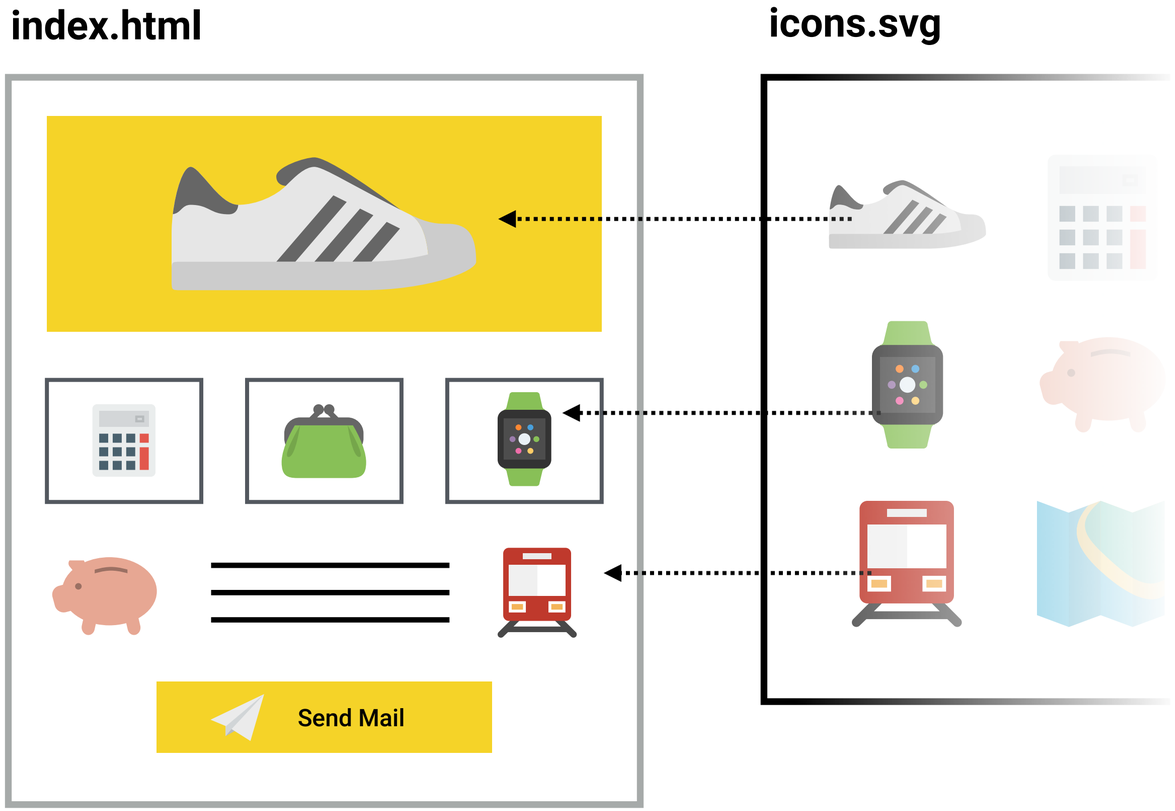
SVG Sprites が、表示されない / やたら重くなる

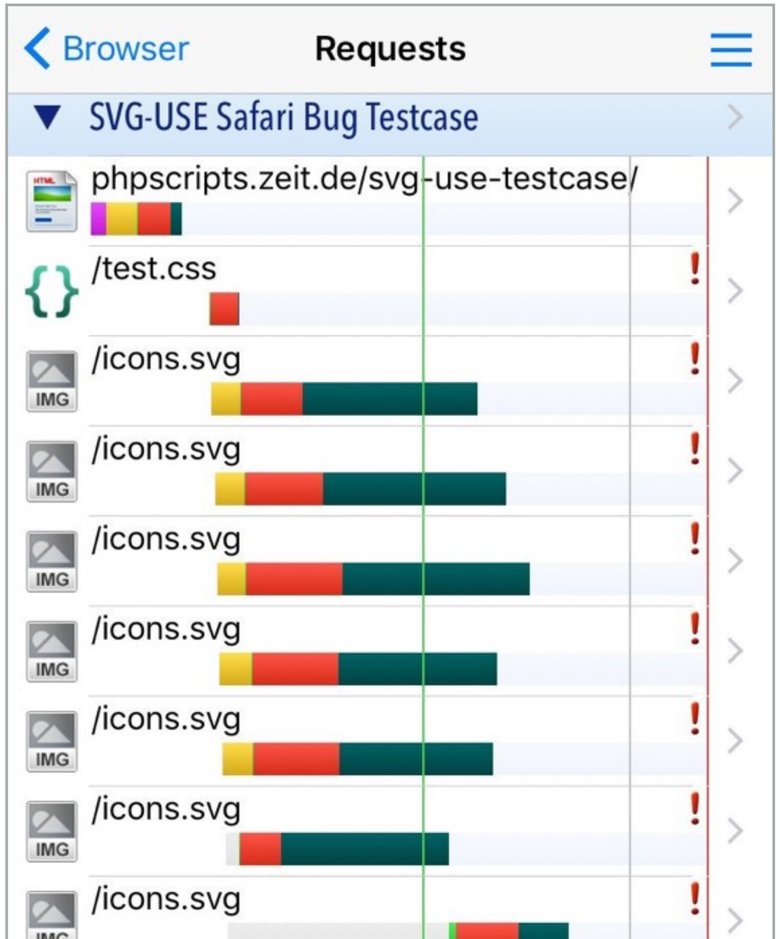


なぜ？ IE, Edge、外部SVGからID参照できない



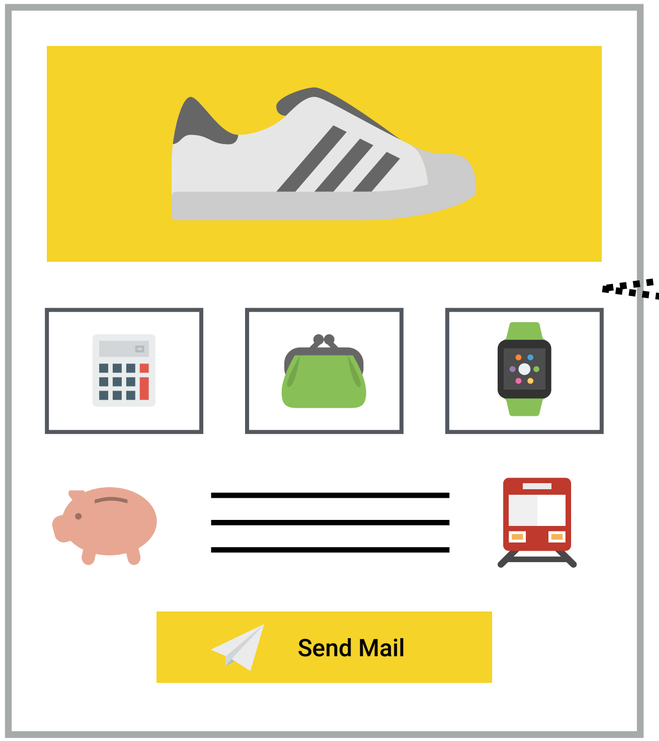
なぜ？ iOS 9.3.1以前、参照ごとにリクエスト





解決　アイコン用SVGを、HTMLにinlineで埋める

index.html



```
<html>
<body>

<svg>
  <symbol id="icon1">...</symbol>
  <symbol id="icon2">...</symbol>
  ...
</svg>

<svg><use
xlink:href="icon.svg#icon1"/
></svg>
</body>
</html>
```

なぜ？

iOS 9.3.1以前、参照するより前に定義がないと表示されない

index.html

bodyの閉じタグの直前に
SVGアイコンを定義しても、
参照できない問題

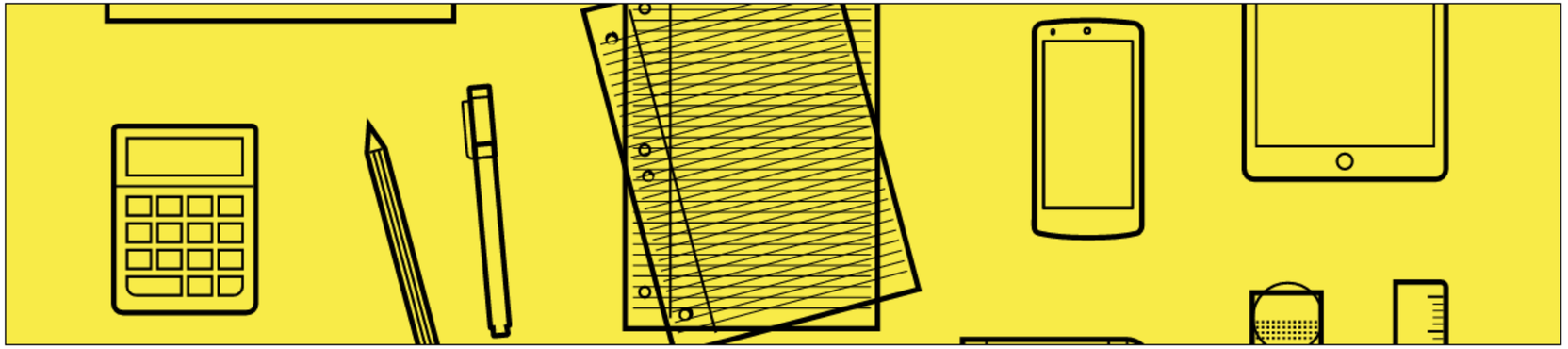
解決　SVGを、HTMLのbody直下にinlineで埋める

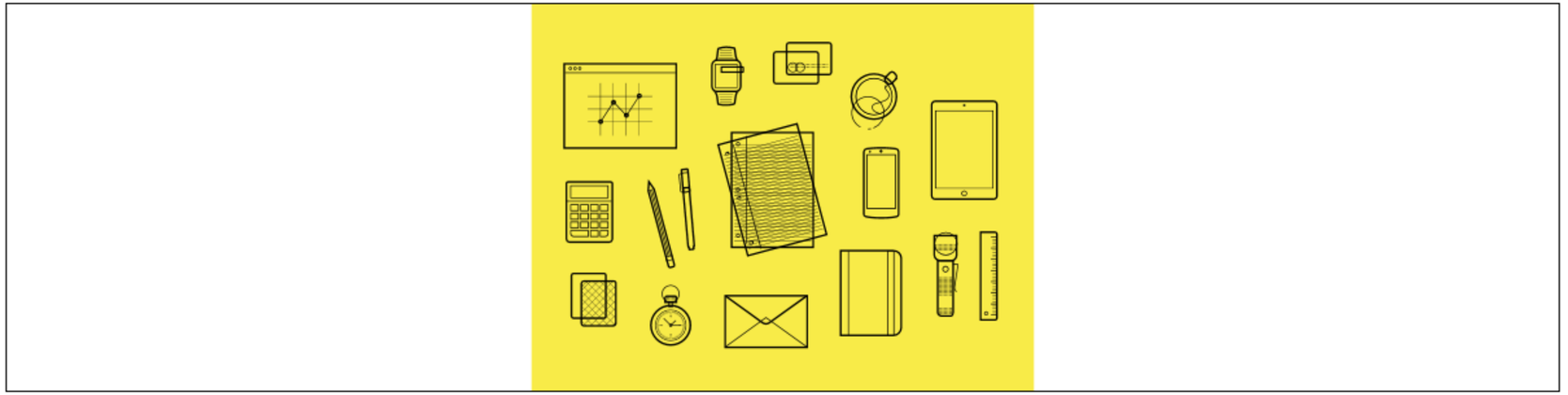
```
<body class="is-home">
<div class="material"><svg><title id="mbrs-logo-title">株式会社まぼろし</title><symbol id="mbrs-logo-m
7.9-58 16.1-16.4 7.4-32.8 17.7-44.5 31.8C.8 53.7 0 55.8 0 55.8l10.8 22.5c10.5-5.3 21.4-9.2 33-11.2
7.6 15.7 6.8-5.1 14.6-9 22.8-11.3-13.8 13.6-12.7 32.7-5 49.1.5-1-.3-3.3-.4-4.5-.1-1.7-.2-3.3-.1-5
11.8-12l3.9-2.4L72 83.2c-7.4-1-14.9-.9-22.3 0 7.4-5.1 15.4-9.1 23.9-12.1 4-1.2 5-1.3 5-1.3l9.3-20.
7.7-.8 7.7-.8L111 0z"/></symbol><symbol id="mbrs-logo-name" viewBox="0 0 308 113"><path d="M126.6
54.3c-.8-.2-.8-.2-1-1-.3-1.4-.6-2.7-.8-4.1-.4-2.7-.5-5.4-.6-8.1-.1-2.5 0-5 .1-7.5 0-.7.1-1.4.1-2.1
2.5-3.5-.3-2.1-1.7-3.1-3.7-3.4-1-.1-2 .6-2.8 1-2.1 1.1-4.3 1.9-6.6 2.6.3-1.5.4-3.1.6-4.6.2-1.7.7-3
10.2-1.1 15.2-2.3.5-.1 1.3-.3 1.7-.7.6-.6.2-1.7-.1-2.3-.8-1.7-2.6-2.8-4.5-2.8s-3.8.8-5.6 1.4c-2.4.
8.6 3.8 13 3.5.5 0 1.3-.3 1.8-.1.3.1.8.6 1.1.9.6.5 1.2 1.1 1.7 1.8 2 2.8 2.2 6.6 2.2 9.9v3.4c0 .2.
1-2.9.5-5.9.8-8.8.6-2.8-.2-5.5-1.5-5.1-4.8-1.3 1.9-2 4.9-.3 6.7 1.9 2.1 5.3 2.1 7.9 2.1 3.9-.1 7.8
8.2 11 9.1 4.4.9 10 1.1 13.9-1.4 3.4-2.1 3.8-5.9 4.2-9.5 3.7 1.9 6.1 5.6 9.7 7.8 1.1.7 1.9.9 3.1.4
2.5-4.4.2-2.8-2-5-4.1-6.5-3.3-2.2-7-3.7-10.7-5zm-10.8 13.6c-3.7 2.5-8.9 2.5-12.8.5-3.4-1.7-6.4-5.4
```

04

SVG + background-imageでハマる

IEで、background-size: cover; がおかしくなる





解決　svg要素のpreserveAspectRatioを変更

```
<svg viewBox="0 0 200 200"
     preserveAspectRatio="xMidYMid slice">
  …
</svg>
```

* デフォルトでは "xMidYMid meet"

解決　svg要素のpreserveAspectRatioを変更

preserveAspectRatio="xMidYMid slice"

=

background-size: cover;

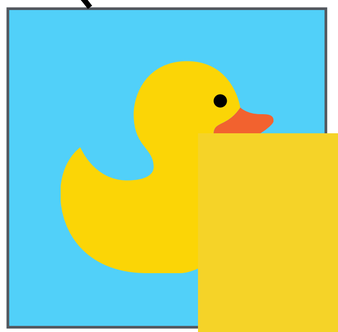
background-position: center center;

05

z-indexでハマる

inline SVGのsvg要素を、z-indexで制御できない

z-index: 100;



z-index: 50;

祇園精舎の鐘の声、諸行無常の響きあり。沙羅双樹の花の色、盛者必衰の理をあらはす。おごれる人も久しからず。ただ春の夜の夢のごとし。たけき者も遂にはほろびぬ、ひとへに風の前の塵に同じ。遠くの異朝をとぶらえば、普の趙高、漢の王莽、梁の周伊、唐の禄山、これらは皆、旧主先皇の政にも従はず、楽しみを極め、諫めをも思ひ入れず、天下の乱れんことを悟らずして、民間の愁ふるところを知らざつしかば、久しからずして、亡じにし者どもなり。

なぜ？ SVGで使えるCSSプロパティは決まっている

Appendix N: Property Index

This appendix is informative, not normative.

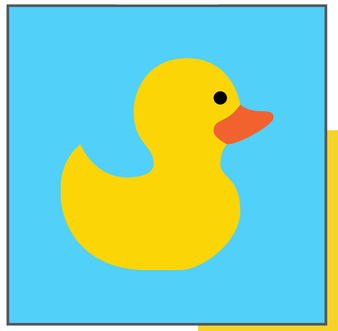
Name	Values	Initial value	Applies to	Inh.	Percentages	Media	Anim.
'alignment-baseline'	auto | baseline | before-edge | text-before-edge | middle | central | after-edge | text-after-edge | ideographic | alphabetic | hanging | mathematical | inherit	see property description	**'tspan'**, **'tref'**, **'altGlyph'**, **'textPath'** elements	no	N/A	visual	yes
'baseline-shift'	baseline | sub | super | <percentage> | <length> | inherit	baseline	**'tspan'**, **'tref'**, **'altGlyph'**, **'textPath'** elements	no	refer to the "line height" of the **'text'** element, which in the case of SVG is defined to be equal to the font size	visual	yes
'clip'	<shape> | auto | inherit	auto	elements which establish a new viewport, **'pattern'** elements and **'marker'** elements	no	N/A	visual	yes
'clip-path'	<funciri> | none | inherit	none	container elements and graphics elements	no	N/A	visual	yes
'clip-rule'	nonzero | evenodd | inherit	nonzero	graphics elements within a **'clipPath'** element	yes	N/A	visual	yes
'color'	<color> | inherit	depends on user agent	elements to which properties **'fill'**, **'stroke'**, **'stop-color'**, **'flood-color'**, **'lighting-color'** apply	yes	N/A	visual	yes
'color-	auto | sRGB | linearRGB | inherit	sRGB	container elements, graphics	yes	N/A	visual	yes

www.w3.org/TR/SVG/propidx.html

解決　SVG要素を、HTMLの要素で囲って制御

z-index: 100;

div



z-index: 50;

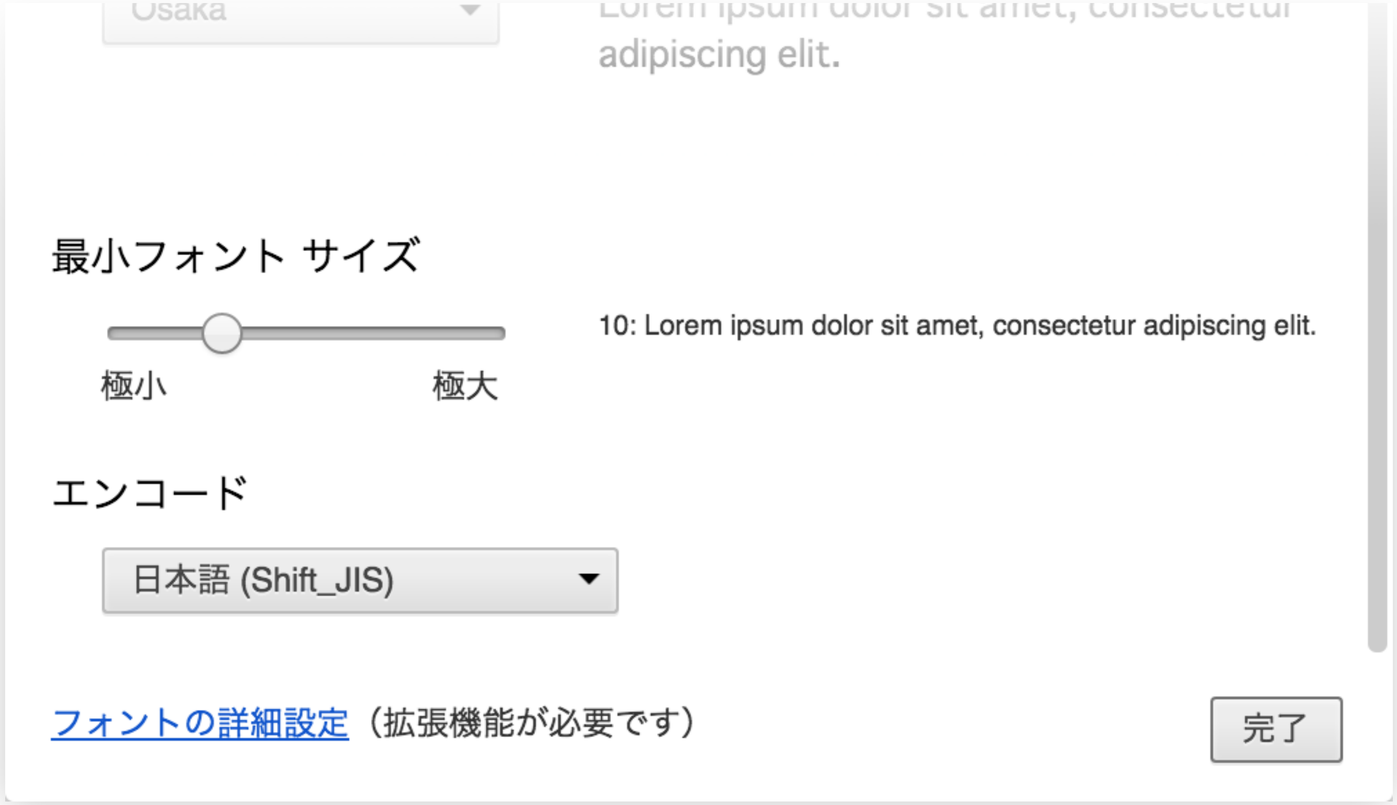
祇園精舎の鐘の声、諸行無常の響きあり。沙羅双樹の花の色、盛者必衰の理をあらはす。おごれる人も久しからず。ただ春の夜の夢のごとし。たけき者も遂にはほろびぬ、ひとへに風の前の塵に同じ。遠くの異朝をとぶらえば、普の趙高、漢の王莽、梁の周伊、唐の禄山、これらは皆、旧主先皇の政にも従はず、楽しみを極め、諫めをも思ひ入れず、天下の乱れんことを悟らずして、民間の愁ふるところを知らざつしかば、久しからずして、亡じにし者どもなり。

06

SVGのテキストでハマる

Chromeで、SVG縮小時にテキストがくずれる

なぜ？ 最小フォントサイズ設定が有効だから



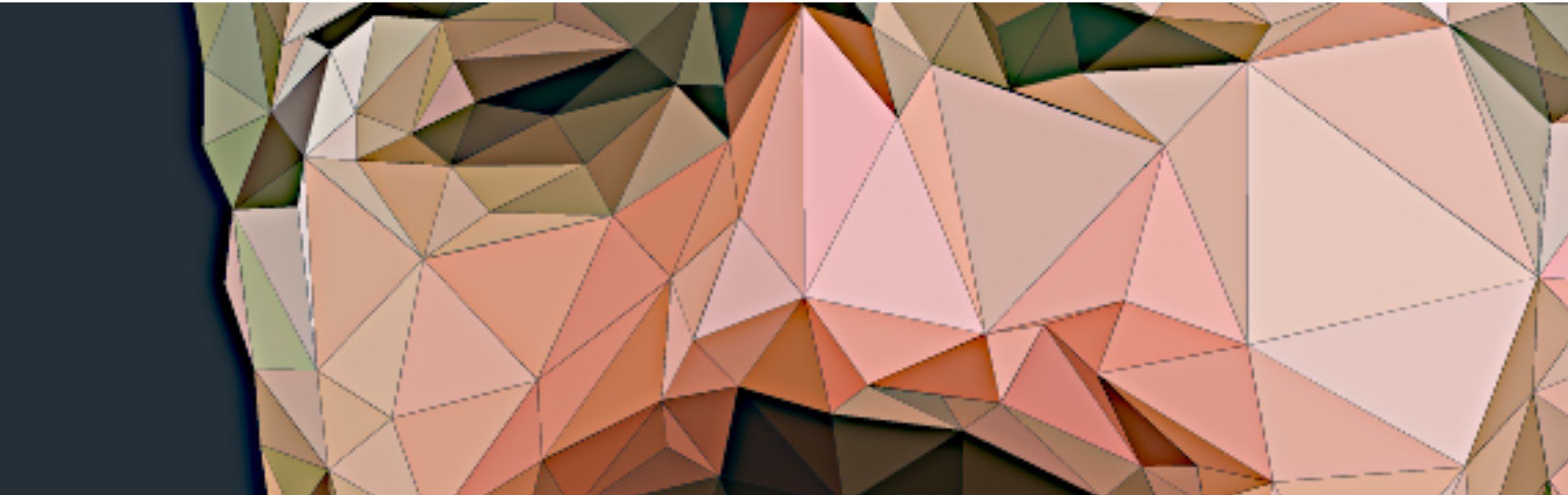
解決　テキストをアウトライン化 する

ただし、
ファイルサイズが激増するので、
ビットマップ化がベターかも

07

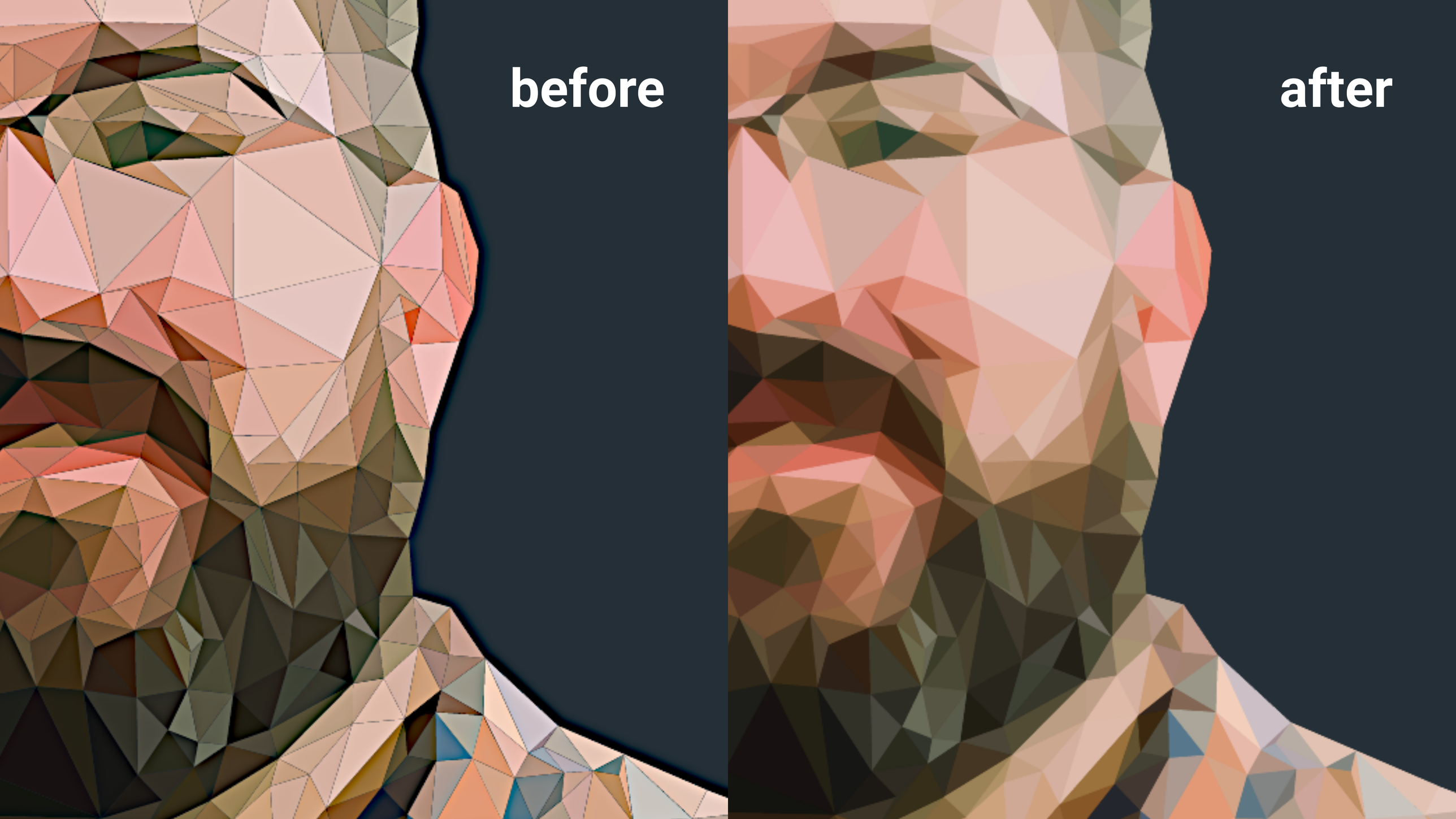
密着させたパスの隙間でハマる

ぴったりくっついているはずのパス同士、
なぜか隙間ができてしまう



解決　魔法のfilterで一発解決

```
<filter id="polycleaner" color-interpolation-filters="sRGB">
    <feComponentTransfer>
        <feFuncA type="table" tableValues="0 0.5 1 1" />
    </feComponentTransfer>
</filter>
```


before
after

SnookSVG w/Polycleaner

A PEN BY GRAY GHOST

Fork | Settings | Change View

HTML

```
<svg xmlns="http://www.w3.org/2000/svg" viewBox="-100 100 1600 1200">
  <title>Jonathan Snook</title>
  <desc>An Awesome Web Dude</desc>
  <defs>
    <filter id="polycleaner" color-interpolation-filters="sRGB">
      <feComponentTransfer>
        <feFuncA type="table" tableValues="0 0.5 1 1" />
      </feComponentTransfer>
    </filter>
  </defs>

  <g filter="url(#polycleaner)">
    <path fill="#D5927A" d="M650.3 459l-96.5-9.2 38
```

CSS (SCSS)

```
// DEMO Styles
html,body {height: 100%;}body{display: flex;flex-direction:column;align-items: center;justify-content:center;width:100%;background:#242F37;color:white}svg{max-width: 100%;}
```

JS

With PolyCleaner

Without PolyCleaner

http://codepen.io/grayghostvisuals/pen/JKmRwY

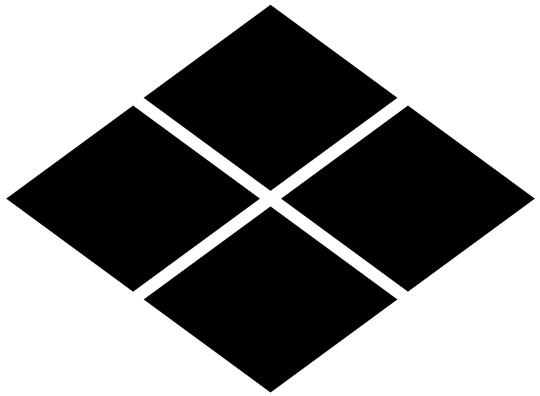
08

autoprefixerでハマる

SVGでは画像などをCSS clip-pathでマスクできる

image要素

clipPath要素



image要素

```
<svg viewBox="0 0 250 250" >
  <image
   xlink:href="xxx.jpg" …
   class="clip-svg"/>
</svg>
```

マスク用のclipPath要素

```
<svg width="0" height="0" >
  <defs>
    <clipPath id="clipping">
      <polygon … />
    </clipPath>
  </defs>
</svg>
```

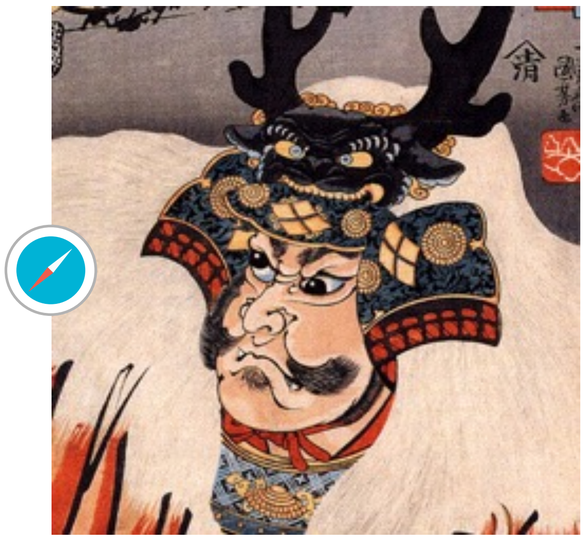
CSS

```
.clip-svg {
  clip-path:
      url(#clipping);
}
```

なぜ？

Safariでは、ベンダープリフィックス付きが併記してあるとマスクが効かない

```
-webkit-clip-path: url(#clipping);
clip-path: url(#clipping);
```



```
-webkit-clip-path: url(#clipping);
clip-path: url(#clipping);
```

解決

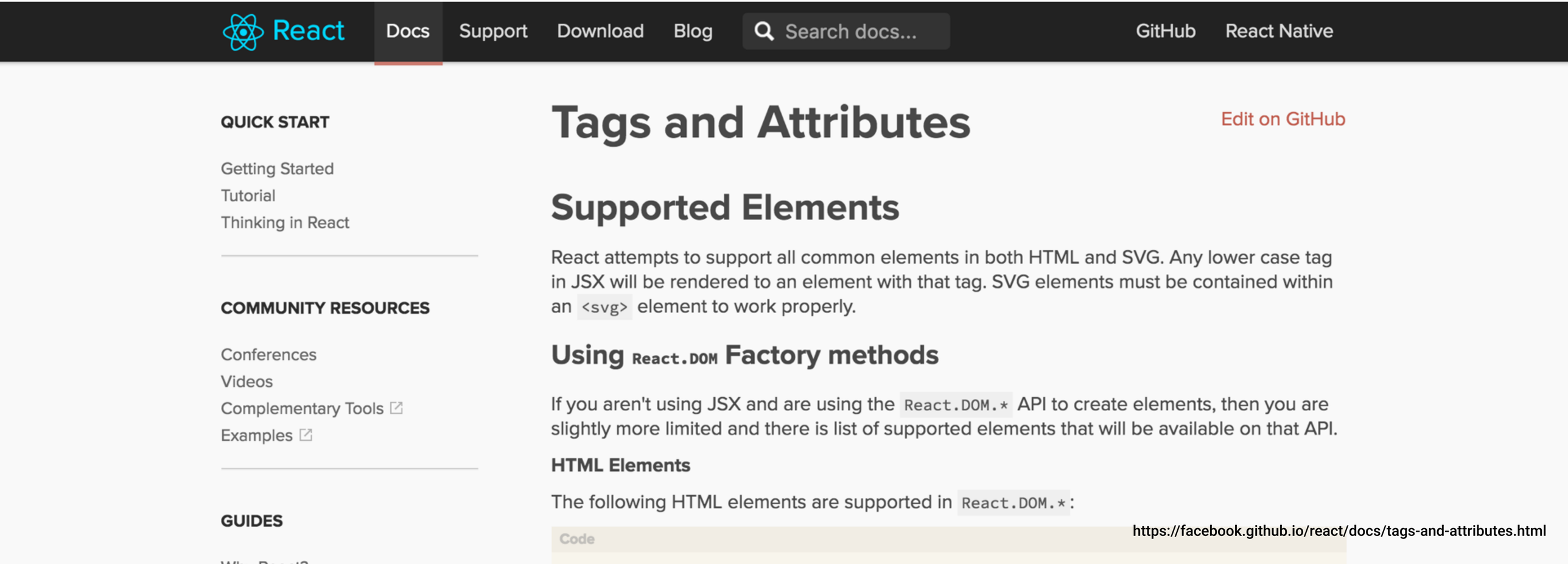
- 無理せず、SVGのclip-path属性を使う
- autoprefixerを過信しない

```
<defs>
   <clipPath id="clip"> ... </clipPath>
</defs>
 <image xlink:href="xxx.jpg" ...  clip-path="url(#clip)" />
```

09

Reactでハマる

なぜ？ Reactでは使えるSVGの要素に制限がある



https://facebook.github.io/react/docs/tags-and-attributes.html

解決 次の要素以外使わない

- circle
- clipPath
- defs
- ellipse
- g
- image
- line
- linearGradient
- mask
- path
- pattern
- polygon
- polyline
- radialGradient
- rect
- stop
- svg
- text
- tspan

解決 symbol要素、use要素は使えないので、React.createClass でコンポーネント化

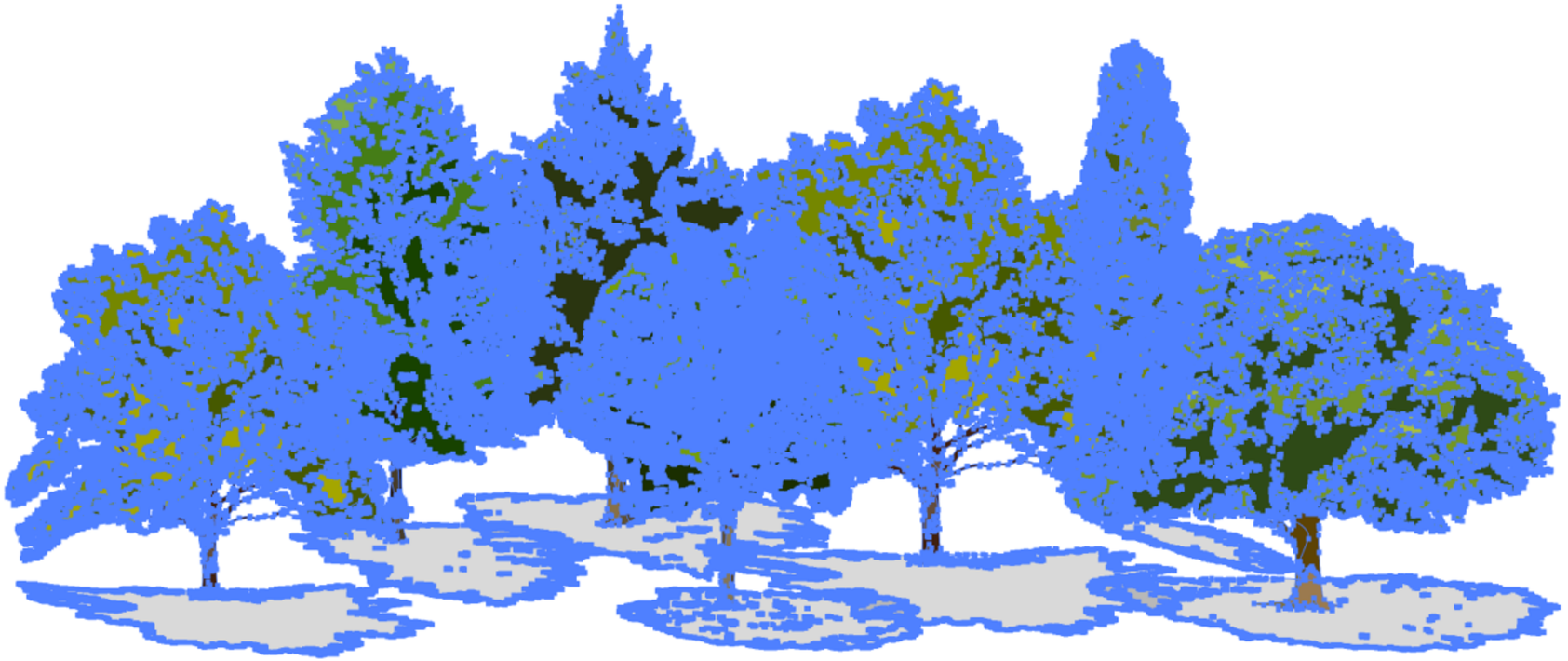
```
const IconUmbrella = React.createClass({
  render() {
    return (
      <svg className="umbrella" xmlns="http://www.w3.org/2000/svg" width="32" height="32" viewBox="0 0 32 32" aria-labelledby="title"><title id="title">Umbrella Icon</title><path d="M27 14h5c0-1.105-1.119-2-2.5-2s-2.5 0.82… z"/></svg>
    )
  }
});
```

https://css-tricks.com/creating-svg-icon-system-react/

10

SVGのダイエットで
ハマる

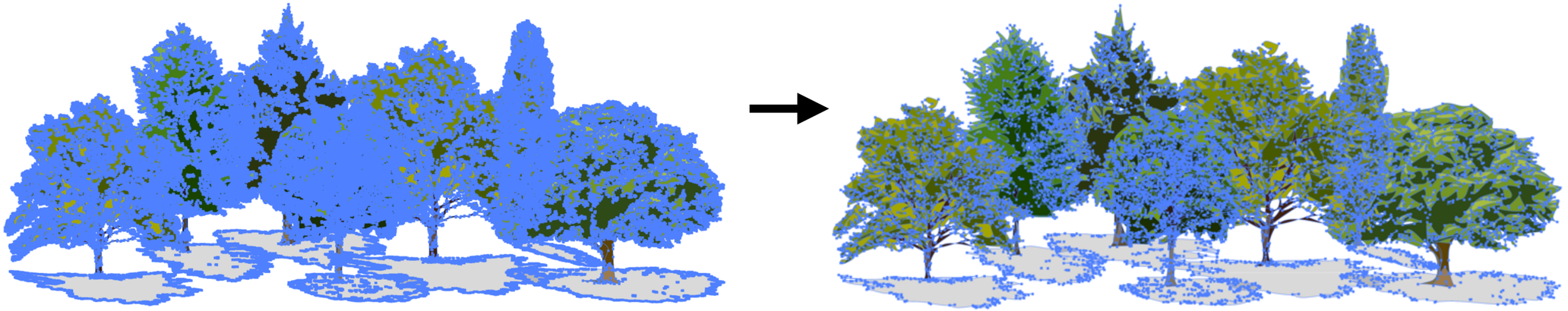
どうしても、SVGファイルサイズが大きくなる



解決

・アンカーポイントの数を減らす

・それぞれの座標を整数値に合わせる



解決 path要素に変換し、属性の記述順を揃え、gzip圧縮を行う

```
<rect x="80" y="40" fill="#FFCC00" width="30" height="30"/>
<path fill="#FFCC00" d="M201.3,61.8c-3.3-18.1,7-36.8,..."/>
<polygon points="43.3,67.8 86.6,142.8 ..." fill="#FFCC00"/>
```

解決

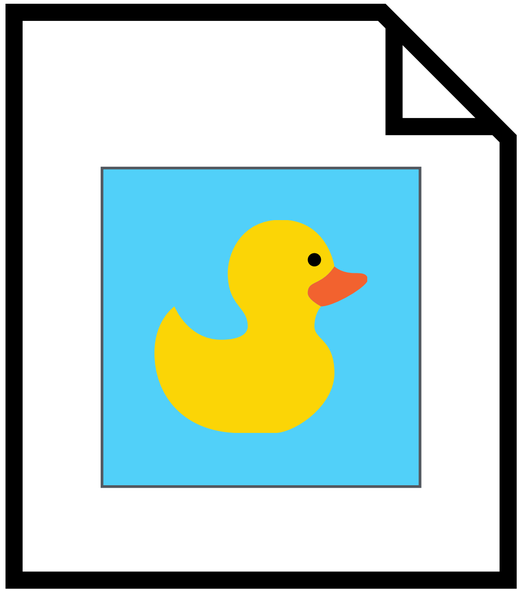
コード内に同じ記述箇所が多いほど、圧縮効率は向上する

```
<path fill="#FC0" d="M80 40h30v30H80z"/>
<path fill="#FC0" d="M201.3 61.8c-3.3-18.1 7-36.8…"/>
<path fill="#FC0" d="M43.3 67.8l43.3 75H0"/>
```

いかがでしたでしょうか

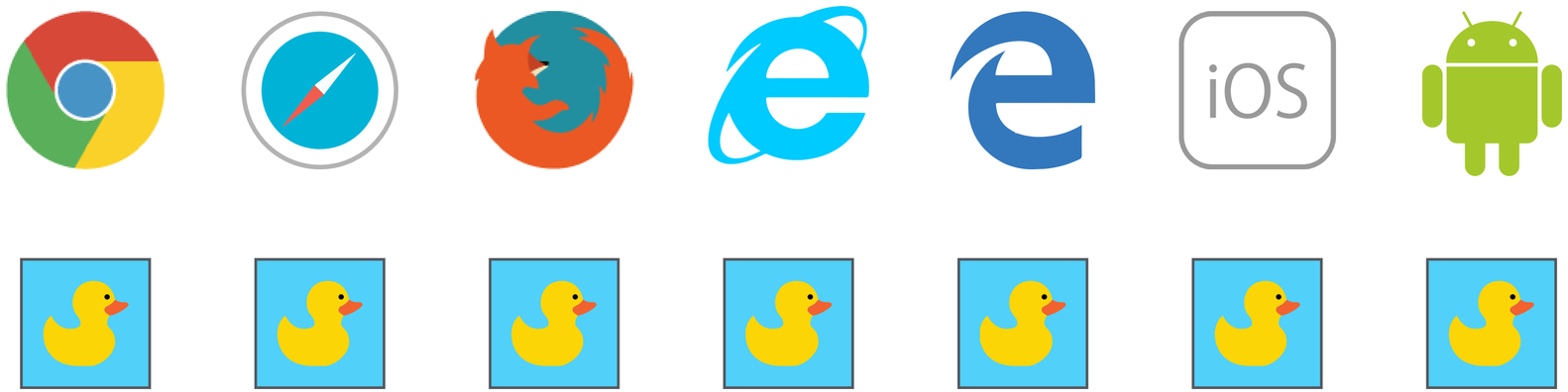
「SVG、めんどくさいな！」
と思われましたね？

そんなときは、
手堅い使い方からはじめる



- 単独のSVGファイル
- svg要素には、viewBox, width, height属性を指定
- HTMLのimg要素で使う

これなら、どのブラウザでもほぼ大丈夫



LP47 DEMO - SVG Aspect in img

A PEN BY Naoki Matsuda

Save Fork Settings Change View

HTML

```
      </div>
    </section>
  </div>

  <div class="col-sm-3">
    <section>
      <h2>w/h + Fluid</h2>
      <div class="imgContainer">
        <img
src="https://www.dropbox.com/s/byn9h3wl81pnwik/duck_wh.svg?dl=1" class="img-fluid" alt="">
      </div>
    </section>
  </div>
```

CSS (SCSS)

```
  padding: 60px;
}

h2 {
  font-size: 1rem;
}

img, svg {
  border: 1px dotted #000;
}

.img-fluid {
  width: 100%;
  height: auto;
}
```

JS

img要素 + 外部SVG

no w/h

w/h

no w/h + Fluid

w/h + Fluid

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LP47 DEMO - inline SVG Aspect

A PEN BY Naoki Matsuda

Save Fork Settings Change View

HTML

```
<div class="container-fluid">

  <h1>inline SVG</h1>

  <div class="row">

    <div class="col-sm-3">
      <section>
        <h2>no w/h</h2>
        <div class="imgContainer">
          <svg viewBox="0 0 200 200">
            <rect fill="#51D8F9"
width="200" height="200"/>
            <path fill="#FBD506" d="M147
67c0-12-9-33-34-33S80 55 80 67c0 20.6 12
```

CSS (SCSS)

```
  padding: 60px;
}

h2 {
  font-size: 1rem;
}

img, svg {
  border: 1px dotted #000;
}

.img-fluid {
  width: 100%;
  height: auto;
}
```

JS

inline SVG

no w/h

w/h

no w/h + Fluid

w/h + Fluid

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LP47 DEMO - inline SVG Fluid (padding hack)

A PEN BY Naoki Matsuda

Save Fork Settings Change View

HTML

```
<div class="container-fluid">

  <h1>inline SVG Fluid (padding hack)
  </h1>

  <div class="row">

    <div class="col-sm-3">
      <section>
        <h2>no w/h + height: 100%;</h2>
        <div class="svg-container">
          <svg class="height-100"
viewBox="0 0 200 200">
        </div>
      </section>
```

CSS (SCSS)

```
  height: 0;
  padding: 0;
  padding-bottom: calc(100%/200*200);
  svg {
    display: block;
    position: absolute;
    width: 100%;
  }
  .height-100 {
    height: 100%;
  }
  .height-auto {
    height: auto;
  }
}
```

JS

inline SVG Fluid (padding hack)

no w/h + height: 100%;

w/h + height: 100%;

no w/h + height: auto;

w/h + height: auto;

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LP47 DEMO - SVG in CSS background

A PEN BY Naoki Matsuda

Save Fork Settings Change View

HTML

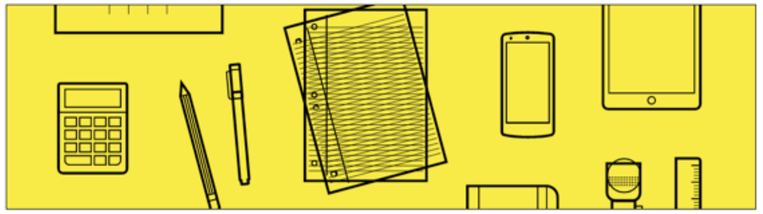
```
<div class="container-fluid">

  <h1>preserveAspectRatio="xMidYMid meet"
</h1>
  <div class="bg-svg bg-meet"></div>

  <h1>preserveAspectRatio="xMidYMid
slice"</h1>
  <div class="bg-svg bg-slice"></div>

</div>
```

CSS (SCSS)

```
html {
  font-size: 16px;
}

body {
  padding: 60px;
}

h2 {
  font-size: 1rem;
}

.bg-svg {
  border: 1px solid #000;
  height: 300px;
```

JS

preserveAspectRatio="xMidYMid meet"



preserveAspectRatio="xMidYMid slice"

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LP47 DEMO - SVG ClipPath + autoprefixer

A PEN BY Naoki Matsuda

Save Fork Settings Change View

HTML

```
<div class="container-fluid">

  <h1>SVG image要素をclipPathでマスク</h1>

  <div class="row">

    <div class="col-sm-4">
      <h2>image要素 マスクなし</h2>
      <svg width="250px" height="250px">
        <image
xlink:href="https://www.dropbox.com/s/5wjek4l0cl31h6s/shingen.jpg?dl=1"
width="250" height="250"/>
      </svg>
    </div>
```

CSS (SCSS)

```
.clip-svg-prefix {
  -webkit-clip-path: url(#clipping);
  clip-path: url(#clipping);
}

.clip-svg-no-prefix {
  clip-path: url(#clipping);
}

.assets {
  width: 0;
  height: 0;
  overflow: hidden;
}
```

JS

SVG image要素をclipPathでマスク

image要素 マスクなし

image要素 + clipPath （prefix付き）

image要素 + clipPath （prefixなし）

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LP47 DEMO - SVG Icon with React

A PEN BY Naoki Matsuda

Save Fork Settings Change View

HTML

```
<div class="container-fluid">

  <div class="row">

    <div id="icon-container"></div>

  </div>
</div>
```

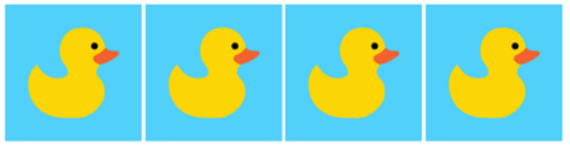
CSS (SCSS)

```
html {
  font-size: 16px;
}

body {
  padding: 60px;
}

.icon-duck {
  margin-right: 5px;
}
```

JS (Babel)

```
// App
const App = React.createClass({
  render() {
    return (
      <div>
        <Header />
        <IconDuck /><IconDuck />
<IconDuck /><IconDuck />
      </div>
    )
  }
});

// Header
const Header = React.createClass({
```

ReactでSVG Iconを再利用する



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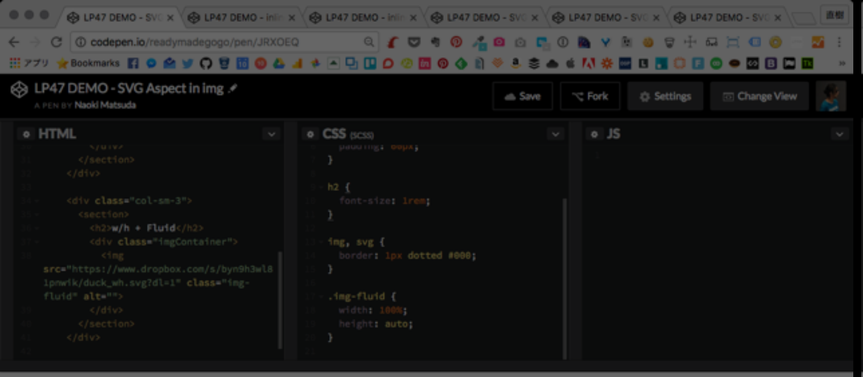
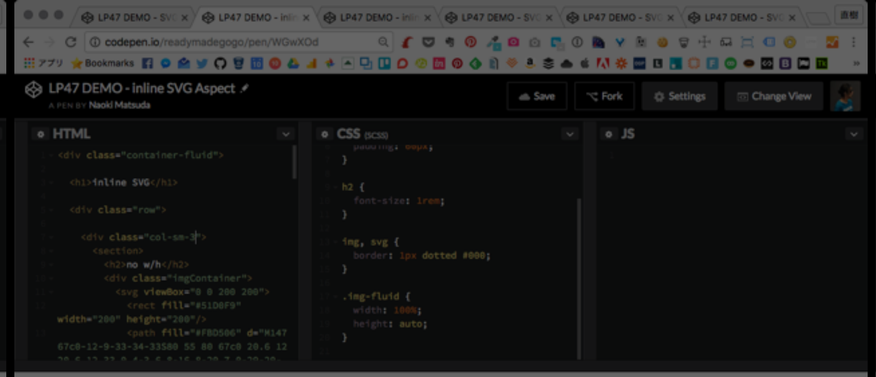
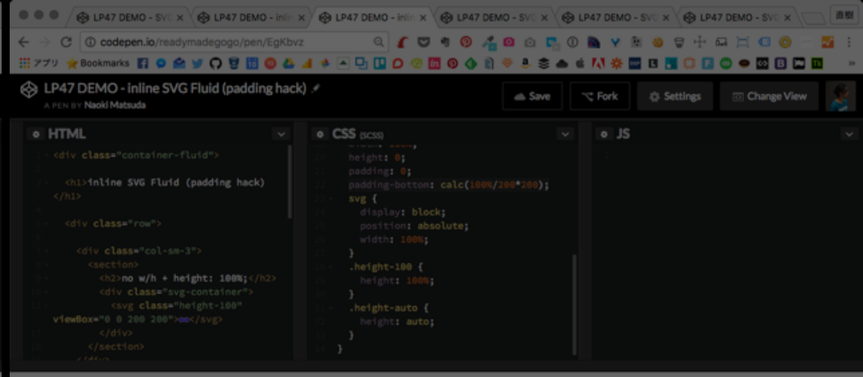
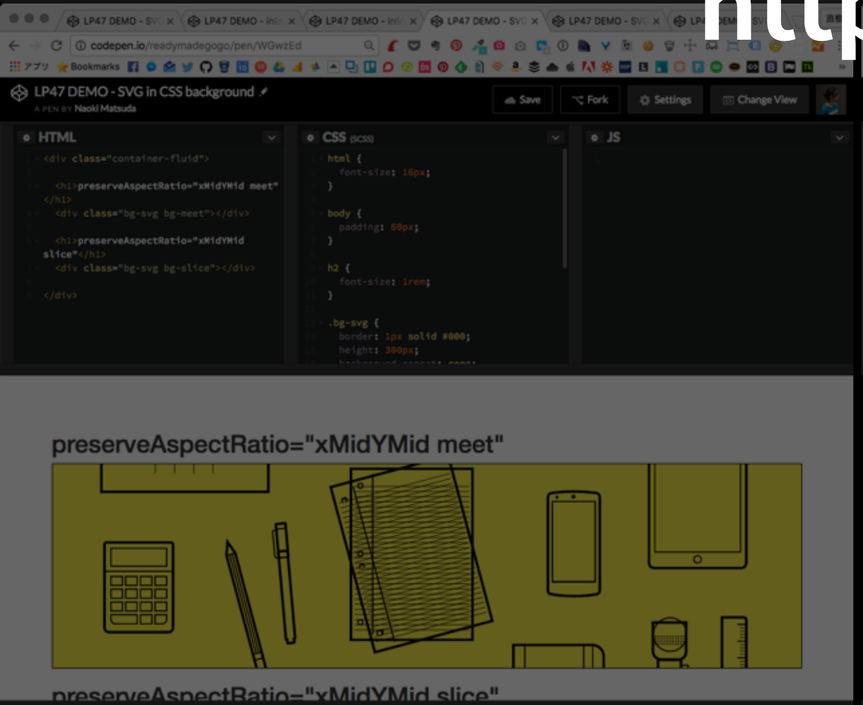
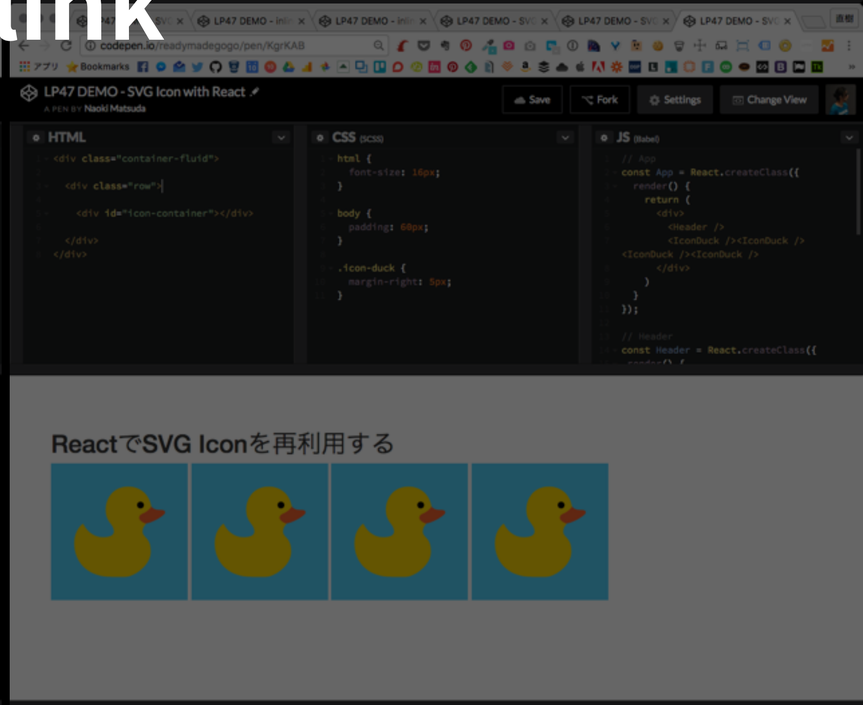






http://bit.ly/lp47-svg-link





ありがとうございました

株式会社まぼろし
松田直樹