


Adaptação do merge semiestruturado para CSS



Repositórios

- Pure: <https://github.com/yahoo/pure>
 - A set of small, responsive CSS modules that you can use in every web project.
 - 51 contribuidores
 - 531 commits e 114 merges
- Bootstrap: <https://github.com/twbs/bootstrap>
 - The most popular HTML, CSS, and JavaScript framework for developing responsive, mobile first projects on the web.
 - 957 contribuidores
 - 17.304 commits e 4,243 merges (400 usados)



Possíveis falsos positivos do não estruturado



Remoção de seletores

```
.pure-menu.pure-menu-horizontal > .pure-menu-heading {  
    display: inline-block;  
    *display: inline;  
    zoom: 1;  
    margin: 0;  
    vertical-align: middle;  
}  
<<<<<<< MINE  
=====
```

```
.pure-menu.pure-menu-horizontal > ul {  
    display: inline-block;  
    *display: inline;  
    zoom: 1;  
    vertical-align: middle;  
}  
>>>>>>> YOURS
```

```
/* FIXED MENU */  
.pure-menu-fixed {  
    position: fixed;  
    top: 0;  
    left: 0;  
    width: 100%;  
}
```

Remoção de seletores

```
31 .pure-menu.pure-menu-horizontal > .pure-menu-heading {  
32     display: inline-block;  
33     *display: inline;  
34     zoom: 1;  
35     margin: 0;  
36     vertical-align: middle;  
37 }  
38  
39  
40 /* FIXED MENU */  
41 .pure-menu-fixed {  
42     position: fixed;  
43     top: 0;  
44     left: 0;  
45     width: 100%;  
46 }
```

Left

```
.pure-menu.pure-menu-horizontal > .pure-menu-heading {  
    display: inline-block;  
    *display: inline;  
    zoom: 1;  
    margin: 0;  
    vertical-align: middle;  
}  
.pure-menu.pure-menu-horizontal > ul {  
    display: inline-block;  
    *display: inline;  
    zoom: 1;  
    vertical-align: middle;  
    height: 2.4em;  
}
```

Base

```
48 .pure-menu.pure-menu-horizontal > .pure-menu-heading {  
49     display: inline-block;  
50     *display: inline;  
51     zoom: 1;  
52     margin: 0;  
53     vertical-align: middle;  
54 }  
55 .pure-menu.pure-menu-horizontal > ul {  
56     display: inline-block;  
57     *display: inline;  
58     zoom: 1;  
59     vertical-align: middle;  
60 }
```

Right

Adicionando seletores na mesma área do texto

```
<<<<<< MINE
/*
Need to separate out the :not() selector from the rest of the CSS 2
since IE8 won't execute CSS that contains a CSS3 selector.
*/
.pure-form input:not([type]) {
  padding: 0.5em 0.6em;
  display: inline-block;
  border: 1px solid #ccc;
  font-size: 0.8em;
  box-shadow: inset 0 1px 3px #ddd;
  border-radius: 4px;
  -webkit-box-sizing: border-box;
  -moz-box-sizing: border-box;
  box-sizing: border-box;
}

=====

/* Chrome (as of v.32/34 on OS X) needs additional room for color t
/* May be able to remove this tweak as color inputs become more sta
.pure-form input[type="color"] {
  padding: 0.2em 0.5em;
}

.pure-form input:not([type]):focus,
>>>>>> YOURS
.pure-form input[type="text"]:focus,
.pure-form input[type="password"]:focus,
.pure-form input[type="email"]:focus
```

Adicionando seletores na mesma área do texto

```
28 /*  
29 Need to separate out the :not() selector from the  
30 since IE8 won't execute CSS that contains a CSS:  
31 */  
32 .pure-form input:not([type]) {  
33     padding: 0.5em 0.6em;  
34     display: inline-block;  
35     border: 1px solid #ccc;  
36     font-size: 0.8em;  
37     box-shadow: inset 0 1px 3px #ddd;  
38     border-radius: 4px;  
39     -webkit-box-sizing: border-box;  
40     -moz-box-sizing: border-box;  
41     box-sizing: border-box;  
42 }  
43  
44  
45 .pure-form input[type="text"]:focus,  
46 .pure-form input[type="password"]:focus,  
47 .pure-form input[type="email"]:focus,  
48 .pure-form input[type="url"]:focus,  
49 .pure-form input[type="date"]:focus,  
50 .pure-form input[type="month"]:focus,  
51 .pure-form input[type="time"]:focus,  
52 .pure-form input[type="datetime"]:focus,  
53 .pure-form input[type="datetime-local"]:focus,  
54 .pure-form input[type="week"]:focus,  
55 .pure-form input[type="number"]:focus,  
56 .pure-form input[type="search"]:focus,  
57 .pure-form input[type="tel"]:focus,  
58 .pure-form input[type="color"]:focus,  
59 .pure-form select:focus,  
60 .pure-form textarea:focus {  
61     outline: 0;  
62     outline: thin dotted #999; /* IE6-9 */  
63     border-color: #129FEA;  
64 }
```

Left

```
28  
29  
30 .pure-form input:not([type]):focus,  
31 .pure-form input[type="text"]:focus,  
32 .pure-form input[type="password"]:focus,  
33 .pure-form input[type="email"]:focus,  
34 .pure-form input[type="url"]:focus,  
35 .pure-form input[type="date"]:focus,  
36 .pure-form input[type="month"]:focus,  
37 .pure-form input[type="time"]:focus,  
38 .pure-form input[type="datetime"]:focus,  
39 .pure-form input[type="datetime-local"]:focus,  
40 .pure-form input[type="week"]:focus,  
41 .pure-form input[type="number"]:focus,  
42 .pure-form input[type="search"]:focus,  
43 .pure-form input[type="tel"]:focus,  
44 .pure-form input[type="color"]:focus,  
45 .pure-form select:focus,  
46 .pure-form textarea:focus {  
47     outline: 0;  
48     outline: thin dotted #999; /* IE6-9 */  
49     border-color: #129FEA;  
50 }
```

Base

```
29 /* Chrome (as of v.32/34 on OS X) needs additional room for color to display. */  
30 /* May be able to remove this tweak as color inputs become more standardized across browsers. */  
31 .pure-form input[type="color"] {  
32     padding: 0.2em 0.5em;  
33 }  
34  
35 .pure-form input:not([type]):focus,  
36 .pure-form input[type="text"]:focus,  
37 .pure-form input[type="password"]:focus,  
38 .pure-form input[type="email"]:focus,  
39 .pure-form input[type="url"]:focus,  
40 .pure-form input[type="date"]:focus,  
41 .pure-form input[type="month"]:focus,  
42 .pure-form input[type="time"]:focus,  
43 .pure-form input[type="datetime"]:focus,  
44 .pure-form input[type="datetime-local"]:focus,  
45 .pure-form input[type="week"]:focus,  
46 .pure-form input[type="number"]:focus,  
47 .pure-form input[type="search"]:focus,  
48 .pure-form input[type="tel"]:focus,  
49 .pure-form input[type="color"]:focus,  
50 .pure-form select:focus,  
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52     outline: 0;  
53     outline: thin dotted #999; /* IE6-9 */  
54     border-color: #129FEA;  
55 }
```

Right

Mudanças no corpo dos seletores

```
.label {  
  padding: 1px 3px 2px;  
  font-size: 9.75px;  
  font-weight: bold;  
  color: #ffffff;  
  text-transform: uppercase;  
  white-space: nowrap;  
  <<<<<<< MINE  
  background-color: #bfbfbf;  
  =====  
  >>>>>>> YOURS  
  -webkit-border-radius: 3px;  
  -moz-border-radius: 3px;  
  border-radius: 3px;  
}
```


Mudanças no corpo dos seletores

```
2365 .label {
2366   padding: 1px 3px 2px;
2367   font-size: 9.75px;
2368   font-weight: bold;
2369   color: #ffffff;
2370   text-transform: uppercase;
2371   white-space: nowrap;
2372   background-color: #bfbfbf;
2373   -webkit-border-radius: 3px;
2374   -moz-border-radius: 3px;
2375   border-radius: 3px;
2376 }
```

Left

```
2382 .label {
2383   padding: 1px 3px 2px;
2384   background-color: #bfbfbf;
2385   font-size: 9.75px;
2386   font-weight: bold;
2387   color: #ffffff;
2388   text-transform: uppercase;
2389   -webkit-border-radius: 3px;
2390   -moz-border-radius: 3px;
2391   border-radius: 3px;
2392   white-space: nowrap;
2393 }
```

Base

```
2382 .label {
2383   padding: 1px 3px 2px;
2384   background-color: #bfbfbf;
2385   font-size: 9.75px;
2386   font-weight: bold;
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2388   text-transform: uppercase;
2389   white-space: nowrap;
2390   -webkit-border-radius: 3px;
2391   -moz-border-radius: 3px;
2392   border-radius: 3px;
2393 }
```

Right

Mudanças no nome do seletor + atributos

```
.com { color: #93a1a1; }
.lit { color: #195f91; }
.pun, .opn, .clo { color: #93a1a1; }
.fun { color: #dc322f; }
<<<<<< MINE
.str, .atv { color: #268bd2; }
.kwd, .tag { color: #195f91; }
.typ, .atn, .dec, .var { color: #CB4B16; }
.pln { color: #93a1a1; }
.prettyprint {
  background-color: #fefbf3;
  padding: 9px;
  border: 1px solid rgba(0,0,0,.2);
  -webkit-box-shadow: 0 1px 2px rgba(0,0,0,.1);
  -moz-box-shadow: 0 1px 2px rgba(0,0,0,.1);
  box-shadow: 0 1px 2px rgba(0,0,0,.1);
}
=====
.str, .atv { color: #D14; }
.kwd, .linenums .tag { color: #1e347b; }
.typ, .atn, .dec, .var { color: teal; }
.pln { color: #48484c; }

.prettyprint {
  padding: 8px;
  background-color: #f7f7f9;
  border: 1px solid #e1e1e8;
}
.prettyprint.linenums {
  -webkit-box-shadow: inset 40px 0 0 #fbfbfc, inset 41px 0 0 #ececfc;
  -moz-box-shadow: inset 40px 0 0 #fbfbfc, inset 41px 0 0 #ececfc;
  box-shadow: inset 40px 0 0 #fbfbfc, inset 41px 0 0 #ececfc;
}
>>>>>> YOURS
}
```

Mudanças no nome do seletor + atributos

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.com { color: #93a1a1; }  
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  background-color: #fefbf3;  
  padding: 9px;  
  border: 1px solid rgba(0,0,0,.2);  
  -webkit-box-shadow: 0 1px 2px rgba(0,0,0,.1);  
  -moz-box-shadow: 0 1px 2px rgba(0,0,0,.1);  
  box-shadow: 0 1px 2px rgba(0,0,0,.1);  
}
```

Left

```
.com { color: #93a1a1; }  
.lit { color: #195f91; }  
.pun, .opn, .clo { color: #93a1a1; }  
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.str, .atv { color: #268bd2; }  
.kwd, .tag { color: #195f91; }  
.typ, .atn, .dec, .var { color: #CB4B16; }  
.pln { color: #93a1a1; }  
pre.prettyprint {  
  background: #fefbf3;  
  padding: 9px;  
  border: 1px solid rgba(0,0,0,.2);  
  -webkit-box-shadow: 0 1px 2px rgba(0,0,0,.1);  
  -moz-box-shadow: 0 1px 2px rgba(0,0,0,.1);  
  box-shadow: 0 1px 2px rgba(0,0,0,.1);  
}
```

Base

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.com { color: #93a1a1; }  
.lit { color: #195f91; }  
.pun, .opn, .clo { color: #93a1a1; }  
.fun { color: #dc322f; }  
.str, .atv { color: #D14; }  
.kwd, .linenums .tag { color: #1e347b; }  
.typ, .atn, .dec, .var { color: teal; }  
.pln { color: #48484c; }  
  
.prettyprint {  
  padding: 8px;  
  background-color: #f7f7f9;  
  border: 1px solid #e1e1e8;  
}
```

Right

Mudanças de formatação (comentário e estrutura)

```
/* Specify class=linenums on a pre to get line numbering */  
ol.linenums {  
  <<<<<<< MINE  
    margin: 0 0 0 40px;  
  =====  
    margin: 0 0 0 40px; /* IE indents via margin-left */  
  >>>>>>> YOURS  
}
```

Mudanças de formatação (comentário e estrutura)

```
/* Specify class=linenums on a pre to get line numbering */  
ol.linenums {  
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Left

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ol.linenums { margin: 0 0 0 40px; } /* IE indents via margin-left */
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Base

```
/* Specify class=linenums on a pre to get line numbering */  
ol.linenums {  
  margin: 0 0 0 40px; /* IE indents via margin-left */  
}
```

Right

Possíveis falsos positivos do semiestruturado

Atributo repetido

```
.pure-form input[type="file"]:focus,  
.pure-form input[type="radio"]:focus,  
.pure-form input[type="checkbox"]:focus {  
  outline: thin solid #129FEA;  
  outline: 1px auto #129FEA;  
}
```

unstructured

```
.pure-form input[type="file"]:focus ,  
.pure-form input[type="radio"]:focus ,  
].pure-form input[type="checkbox"]:focus {  
  outline: thin solid #129FEA;  
  <<<<<<< MINE  
  outline: thin solid #129FEA;  
  =====  
  outline: 1px auto #129FEA;  
  >>>>>>> YOURS  
}
```

ssmerge

Atributo repetido

```
.pure-form input[type="file"]:focus,  
.pure-form input[type="radio"]:focus,  
.pure-form input[type="checkbox"]:focus {  
  outline: thin solid #129FEA;  
  outline: 1px auto #129FEA;  
}
```

Left

```
.pure-form input[type="file"]:focus,  
.pure-form input[type="radio"]:focus,  
.pure-form input[type="checkbox"]:focus {  
  outline: thin dotted #333;  
  outline: 1px auto #129FEA;  
}
```

Base

```
.pure-form input[type="file"]:focus,  
.pure-form input[type="radio"]:focus,  
.pure-form input[type="checkbox"]:focus {  
  outline: thin dotted #333;  
  outline: 1px auto #129FEA;  
}
```

Right

Conflito?

```
.pure-form input:not([type]):focus {  
  outline: 0;  
  border-color: #129FEA;  
}
```

Left

```
.pure-form input:not([type]):focus {  
  outline: 0;  
  outline: thin dotted \9; /* IE6-9 */  
  border-color: #129FEA;  
}
```

Base

```
.pure-form input:not([type]):focus {  
  outline: 0;  
  outline: thin dotted \9; /* IE6-9 */  
  border-color: #129FEA;  
}
```

Right

Reports iguais

- No conjunto de dados os conflitos iguais foram os quais left e base alteram o mesmo atributo em um seletor.

Conflitos adicionais que o SS resolve

- imports
- media queries
- page

Links úteis

- ferramenta: <https://github.com/ghpsantos/jFSTMerge>
- minerador de repositórios:
<https://github.com/guilhermejccavalcanti/GitMergesMiner/tree/minerpy>



Dúvidas?

