Smart phone optimization



PageSpeed Insights https://developers.google.com/speed/pagespeed/insights/



Writting place for JavaScript



HTML reading stop while JavaScript is read and implemented.

Write JavaScript before close tag of body element to not interrupt reading and display file.

```
<script src="sample.js"></script>
</body>
</html>
```

Attribute that read by JavaScript asynchronous and then implement it was added. If it is JavaScript that is in no particular order of implementation, you can use it.

<script src="sample.js" async></script>

Minify of HTML/CSS/JavaScript file



Delete line feed and space of HTML · CSS · JavaScript file to reduce amount of deta.

If you consider maintenance, delete at least indent.

HTML: Indent 3.92 KB

HTML: No indent 3.39 KB

CSS: Indent 11.2 KB

CSS: 1line for each selector 9.71 KB

```
.headerArea{overflow:hidden;background:#fff;border-bo
.logo{float:left;padding:6px 10px}
.menuBtn{position:relative;float:right;width:50px;hei
.close .menuBtn span{position:absolute;top:50%;left:5
.close ..menuBtn:before{position:absolute;top:8px;left
.close .menuBtn:after{position:absolute;bottom:8px;le
.open .. menuBtn:before{position:absolute;top:50%;left:
transform:rotate(-45deg);transform:rotate(-45deg);con
.open ..menuBtn:after{position:absolute;top:50%;left:5
transform:rotate(-45deg);transform:rotate(-45deg);con
.close .menuArea{display:none}
.menuArea .seachArea{margin-top:21px;margin-bottom:25
.navList{overflow:hidden}
.navList li{position:relative;float:left;width:50%;-w
.navList · li:nth-child(odd){border-right:1px · solid · #ff
.navList · li:before{position:absolute;top:50%;left:10p
```



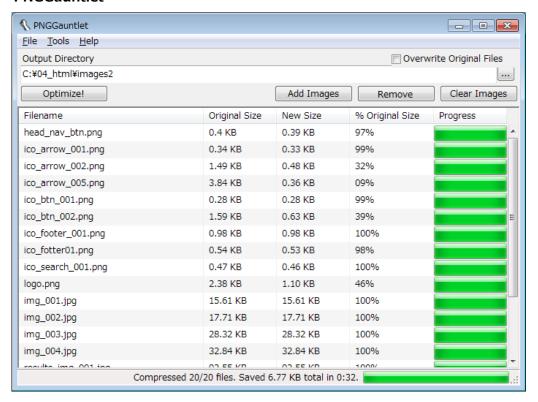
Reoptimize image



Delete information deta that is except for image included in PNG image to make file size small.

Reoptimize PNG image that was written out by Photoshop by using special tool.

PNGGauntlet





https://developers.google.com/speed/docs/insights/OptimizeImages **PNGGauntlet** http://pnggauntlet.com/

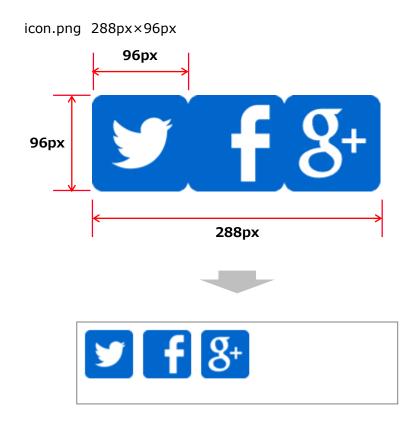


CSS Sprites



Summarize several icon images to one image.

If HTTP request number reduce by summarizing file, whole speed will be fasater because concurrent users for sever have limit.



```
.logo li {
  overflow: hidden;
  float: left;
  width: 48px;
  height: 48px;
  margin-right: 10px;
  background-image: url(img/icon.png);
  background-size: 144px 48px;
  text-indent: 100%;
  white-space: nowrap;
  }
  .twitter { background-position: 0 0; }
  .facebook { background-position: -48px 0; }
  .google-plus { background-position: -96px 0; }
```



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