

المجموعة السعودية للمبرمجين
اللقاء الرابع



PageSpeed

ماهو PageSpeed



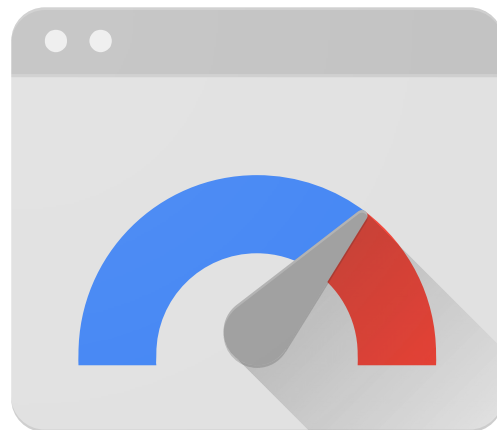
كيف يعمل PageSpeed



لماذا استخدم PageSpeed



- سهولة الصيانة
- تقليل حجم مرور البيانات
- تحسين تلقائي للصفحات
- تحسين تلقائي لملفات JavaScript
- تحسين تلقائي لملفات CSS
- تحسين تلقائي للصور



سوف تحصل على 20% تحسين في الأداء

التركيب و التفعيل

1. `wget https://dl-ssl.google.com/dl/linux/direct/mod-pagespeed-stable_current_amd64.deb`
2. `dpkg -i mod-pagespeed-stable_current_amd64.deb`
3. `service apache2 restart`
4. `nano /etc/apache2/mods-available/pagespeed.conf`
5. `Set ModPagespeed on | Off`
6. `Set ModPagespeedRewriteLevel PassThrough | CoreFilters | OptimizeForBandwidth`

الفلاتر الرئيسية CoreFilters

- 1) add_head
- 2) **combine_css**
- 3) **combine_javascript**
- 4) convert_meta_tags
- 5) extend_cache
- 6) fallback_rewrite_css_urls
- 7) flatten_css_imports
- 8) inline_css
- 9) inline_import_to_link
- 10) inline_javascript
- 11) **rewrite_css**
- 12) **rewrite_images**
- 13) **rewrite_javascript**
- 14) rewrite_style_attributes_with_url

combine_css + combine_javascript

```
<html>
  <head>
    <title>combine_css example</title>
    <link rel="stylesheet" type="text/css" href="styles/yellow.css">
    <link rel="stylesheet" type="text/css" href="styles/blue.css">
    <link rel="stylesheet" type="text/css" href="styles/big.css">
    <link rel="stylesheet" type="text/css" href="styles/bold.css">
  </head>
  <body>
    <div class="blue yellow big bold">
      Hello, PageSpeed!
    </div>
  </body>
</html>
```

combine_css + combine_javascript

```
<html>
  <head>
    <title>combine_css example</title>
    <link rel="stylesheet" type="text/css" href="
styles/A.yellow.css+blue.css+big.css+bold.css,Mcc.xo4He3_gYf.css.pagespeed.cf.3Ea3akSdRD.css"/>

  </head>
  <body>
    <div class="blue yellow big bold">
      Hello, PageSpeed!
    </div>
  </body>
</html>
```

extend_cache

```
<html>
  <head>
    <title>extend_cache example</title>
  </head>
  <body>
    <p>PageSpeed will rewrite this image's source to include a content-hash.
    Note that this requires a background asynchronous fetch of the image;
    therefore the page may not be rewritten the first time. If it isn't, wait
    a few seconds and reload.</p>
    
  </body>
</html>
```

extend_cache

```
<html>
  <head>
    <title>extend_cache example</title>
  </head>
  <body>
    <p>PageSpeed will rewrite this image's source to include a content-hash.
    Note that this requires a background asynchronous fetch of the image;
    therefore the page may not be rewritten the first time. If it isn't, wait
    a few seconds and reload.</p>
    <script data-pagespeed-no-defer type="text/javascript">//
(function(){var g=this;function h(b,d){var a=b.split("."),c=g;a[0]in c||!c.execScript||c.execScript("var
"+a[0]);for(var e;a.length&amp;&amp;(e=a.shift());)a.length||void 0===d?c[e]?c=c[e]:c=c[e]={}:c[e]=d};function l(b){var
d=b.length;if(0&lt;d){for
(
);pagespeed.CriticalImages.Run('/mod_pagespeed_beacon','https://www.modpagespeed.com/extend_cache.html','itt9DLcK-
D',true,false,'p8cxy3NoaY8');
//]]&gt;&lt;/script&gt;&lt;img src="images/xPuzzle.jpg.pagespeed.ic.YsUBdV-i_6.jpg" data-pagespeed-url-hash="607689796"
onload="pagespeed.CriticalImages.checkImageForCriticality(this);"/&gt;
  &lt;/body&gt;
&lt;/html&gt;</pre></div>
```

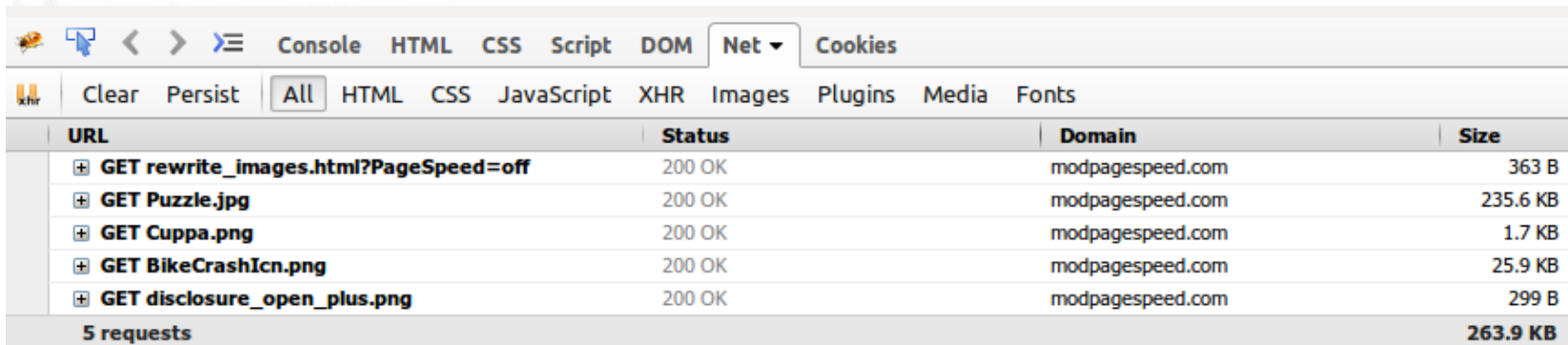

rewrite_css + rewrite_javascript

```
<html>
  <head>
    <title>rewrite_css example</title>
    <style type='text/css'>
      #iddy, #anotherId {
        /* This comment will be stripped.*/
        border: solid 1px #cccccc;
        padding: 1.2em;
        float: left;
        color:WindowText;
      }
      div.classy span, div.classy img {
        display: block;
        border: none !important;
        background: none !important;
      }
    </style>
    <link rel="stylesheet" type="text/css" href="styles/yellow.css">
  </head>
  <body>
    <div class="blue yellow big bold">
      Hello, PageSpeed!
    </div><br>
    Yo, <div class="classy" id="iddy">this page is <span>stylin'</span>.</div>
  </body>
</html>
```

rewrite_css + rewrite_javascript

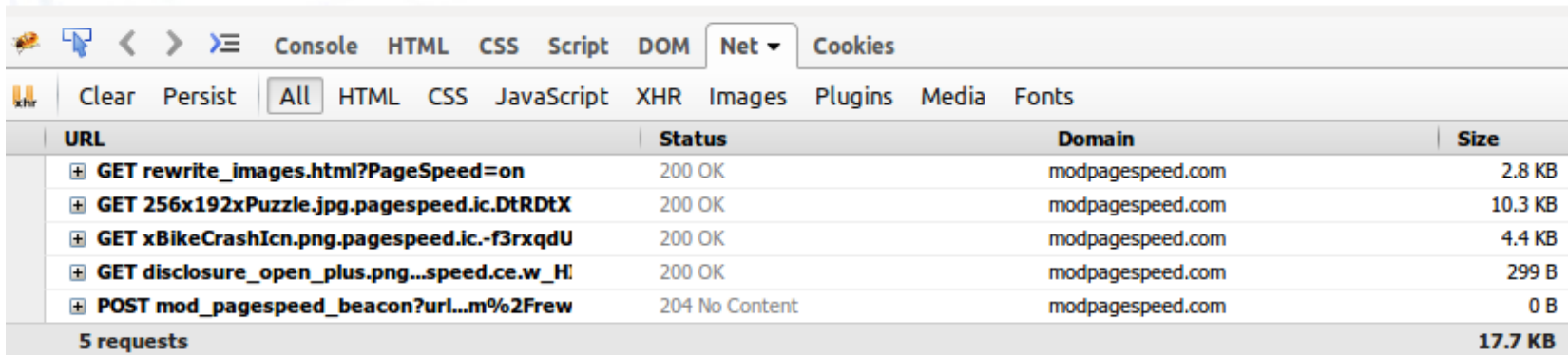
```
<html>
<head>
  <title>rewrite_css example</title>
  <style type='text/css'>#iddy,#anotherId{border:solid 1px #ccc;padding:1.2em;float:left;color:WindowText}div.classy
span,div.classy img{display:block;border:none!important;background:none!important}</style>
  <style>.yellow{background-color:#ff0}</style>
</head>
<body>
  <div class="blue yellow big bold">
    Hello, PageSpeed!
  </div><br>
  Yo, <div class="classy" id="iddy">this page is <span>stylin'</span>.</div>
</body>
</html>
```

rewrite_images



URL	Status	Domain	Size
GET rewrite_images.html?PageSpeed=off	200 OK	modpagespeed.com	363 B
GET Puzzle.jpg	200 OK	modpagespeed.com	235.6 KB
GET Cuppa.png	200 OK	modpagespeed.com	1.7 KB
GET BikeCrashIcn.png	200 OK	modpagespeed.com	25.9 KB
GET disclosure_open_plus.png	200 OK	modpagespeed.com	299 B
5 requests			263.9 KB

rewrite_images



URL	Status	Domain	Size
GET rewrite_images.html?PageSpeed=on	200 OK	modpagespeed.com	2.8 KB
GET 256x192xPuzzle.jpg.pagespeed.ic.DtRDtX	200 OK	modpagespeed.com	10.3 KB
GET xBikeCrashIcn.png.pagespeed.ic.-f3rxqdU	200 OK	modpagespeed.com	4.4 KB
GET disclosure_open_plus.png...speed.ce.w_HI	200 OK	modpagespeed.com	299 B
POST mod_pagespeed_beacon?url...m%2Frew	204 No Content	modpagespeed.com	0 B
5 requests			17.7 KB

شكراً

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