

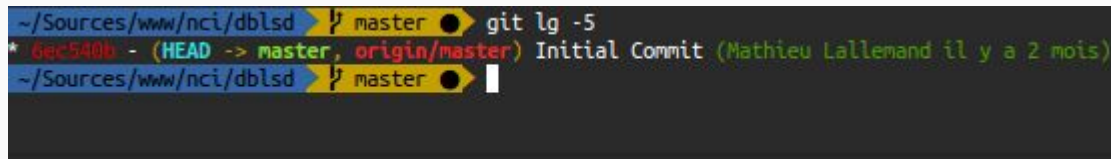
JS - DevToolKit 2016

Cours 0b : Les bons ouvriers ont les bons outils.

Utiliser un OS Unix like

- MacOS ou Linux (Ubuntu, Mint)

- apt-get
- console ZSH
 - Intégration GIT
 - Intégration NPM
 - Intégration Bower

A terminal window with a dark background and light-colored text. The prompt is '~/.Sources/www/nci/dblsd' followed by a yellow arrow pointing right and the word 'master' in yellow. The command 'git lg -5' is entered. The output shows a commit hash '66c540b' in red, followed by '(HEAD -> master, origin/master)' in red, and 'Initial Commit (Mathieu Lallemand il y a 2 mois)' in green. The prompt is repeated at the bottom.

```
~/.Sources/www/nci/dblsd ➤ master ➤ git lg -5
* 66c540b - (HEAD -> master, origin/master) Initial Commit (Mathieu Lallemand il y a 2 mois)
~/.Sources/www/nci/dblsd ➤ master ➤
```

Babun sous Windows (<http://babun.github.io/>) ou utiliser une VM avec Ubuntu (via VmWare Player par exemple)

Les task runners

Grunt

- Le plus ancien
- Bien supporté
-

Grunt



- Le plus ancien
- Bon support de plugins
- Verbeux
- Lent

```
module.exports = function(grunt) {  
  
  // Project configuration.  
  grunt.initConfig({  
    pkg: grunt.file.readJSON('package.json'),  
    uglify: {  
      options: {  
        banner: '/*! <%= pkg.name %> <%= grunt.template.today("yyyy-mm-dd") %> */\n'  
      },  
      build: {  
        src: 'src/<%= pkg.name %>.js',  
        dest: 'build/<%= pkg.name %>.min.js'  
      }  
    }  
  });  
  
  // Load the plugin that provides the "uglify" task.  
  grunt.loadNpmTasks('grunt-contrib-uglify');  
  
  // Default task(s).  
  grunt.registerTask('default', ['uglify']);  
  
};
```

Gulp

- Plus rapide que grunt
- Plus simple a maintenir
- Plugins suffisants
- Reste lent/lourd sur les gros projets



```
var gulp = require('gulp');

gulp.task('default', function() {
  // place code for your default task here
});
```

Brunch.IO

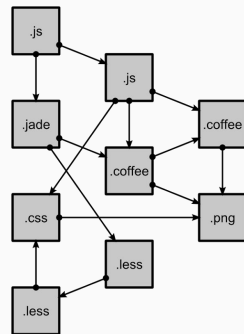


- Très rapide
- Configuration rapide
- Boilerplates
- Prise en main délicate

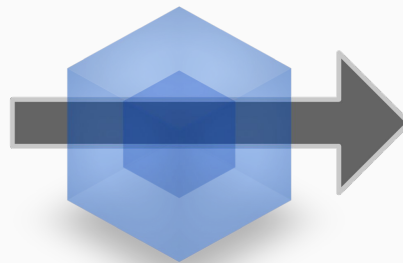
```
exports.config =  
# See http://brunch.io/#documentation for docs.  
files:  
  javascripts:  
    joinTo:  
      'javascripts/app.js': /^app/  
      'javascripts/vendor.js': /^(?!app)/  
  
  stylesheets:  
    joinTo: 'stylesheets/app.css'  
  
  templates:  
    joinTo: 'javascripts/app.js'
```

WebPack

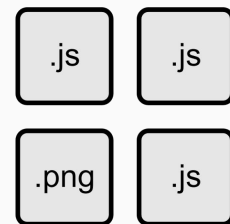
- Syntaxe Complexe
- Plutôt rapide en mode watch
- Bon support plugins
- Vise l'optimisation WebApp



modules
with dependencies



webpack
MODULE BUNDLER

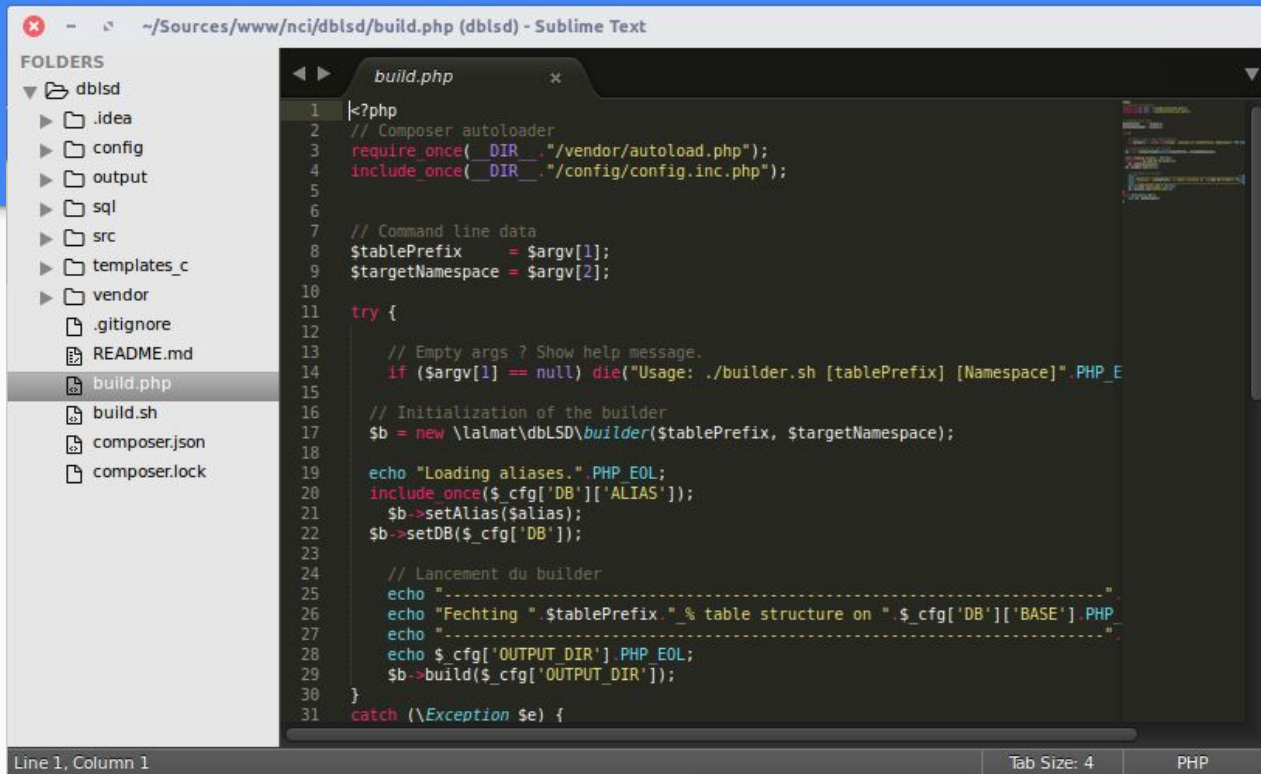


static
assets



IDE

SublimeText



Sublime Text editor window showing a PHP file named `build.php`. The left sidebar displays the file explorer with folders like `.idea`, `config`, `output`, `sql`, `src`, `templates_c`, `vendor`, `.gitignore`, `README.md`, `build.php`, `build.sh`, `composer.json`, and `composer.lock`.

The main editor area shows the content of `build.php`:

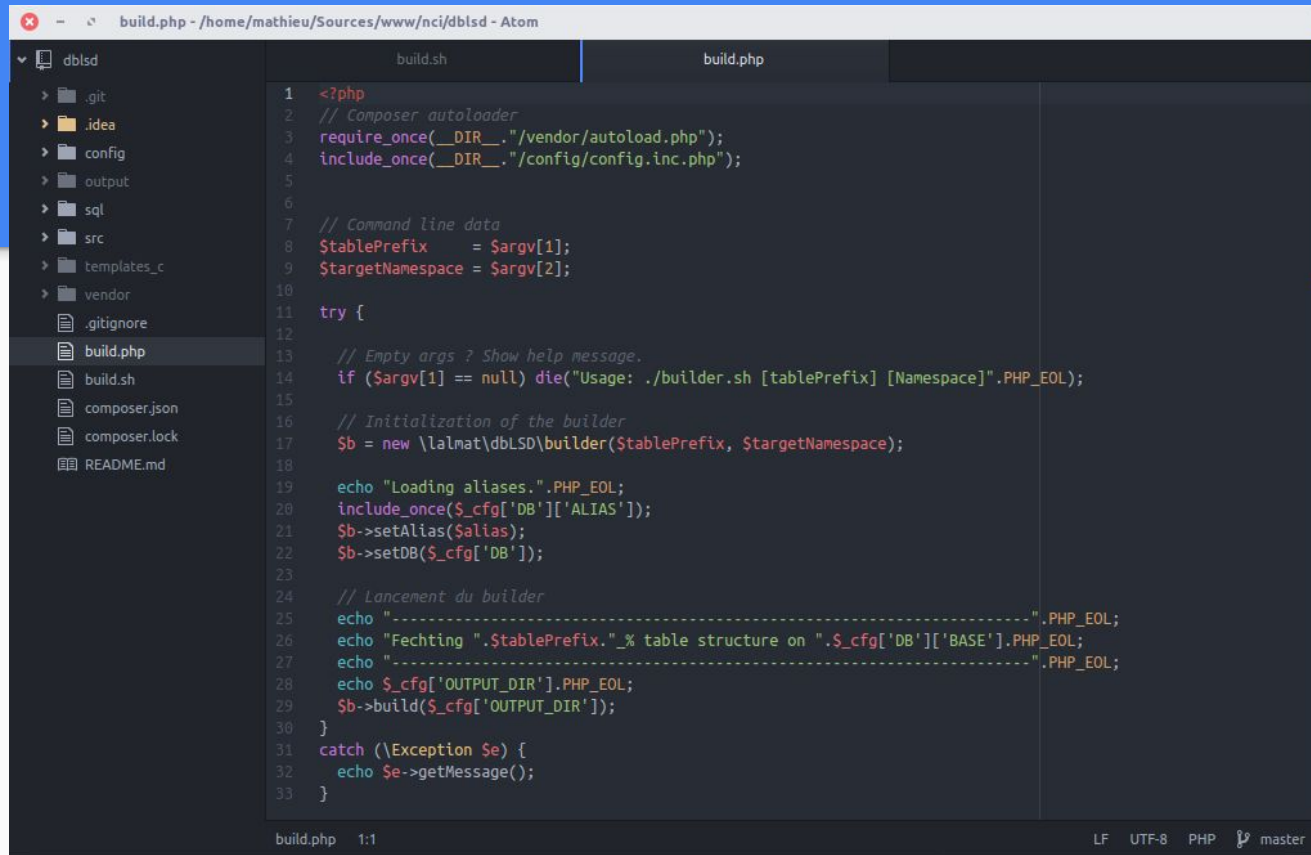
```
1 |<?php
2 // Composer autoloader
3 require_once( __DIR__ . "/vendor/autoload.php");
4 include_once( __DIR__ . "/config/config.inc.php");
5
6
7 // Command line data
8 $tablePrefix = $argv[1];
9 $targetNamespace = $argv[2];
10
11 try {
12
13     // Empty args ? Show help message.
14     if ($argv[1] == null) die("Usage: ./builder.sh [tablePrefix] [Namespace]".PHP_EOL);
15
16     // Initialization of the builder
17     $b = new \lalmat\dbLSD\builder($tablePrefix, $targetNamespace);
18
19     echo "Loading aliases.".PHP_EOL;
20     include_once($cfg['DB']['ALIAS']);
21     $b->setAlias($alias);
22     $b->setDB($cfg['DB']);
23
24     // Lancement du builder
25     echo "-----".PHP_EOL;
26     echo "Fechting ".$tablePrefix."_% table structure on ".$cfg['DB']['BASE'].PHP_EOL;
27     echo "-----".PHP_EOL;
28     echo $cfg['OUTPUT DIR'].PHP_EOL;
29     $b->build($cfg['OUTPUT_DIR']);
30 }
31 catch (\Exception $e) {
```

Line 1, Column 1

Tab Size: 4

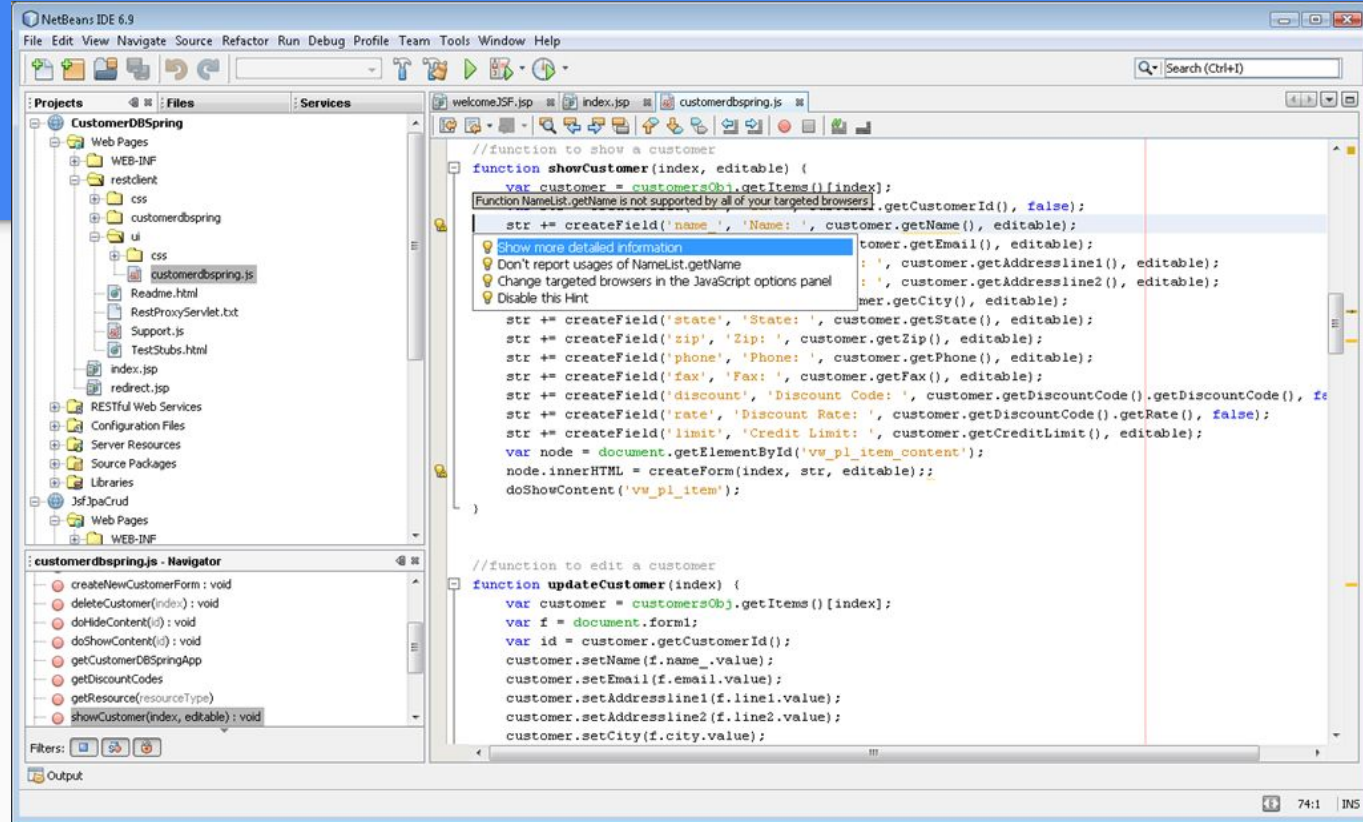
PHP

Atom.IO

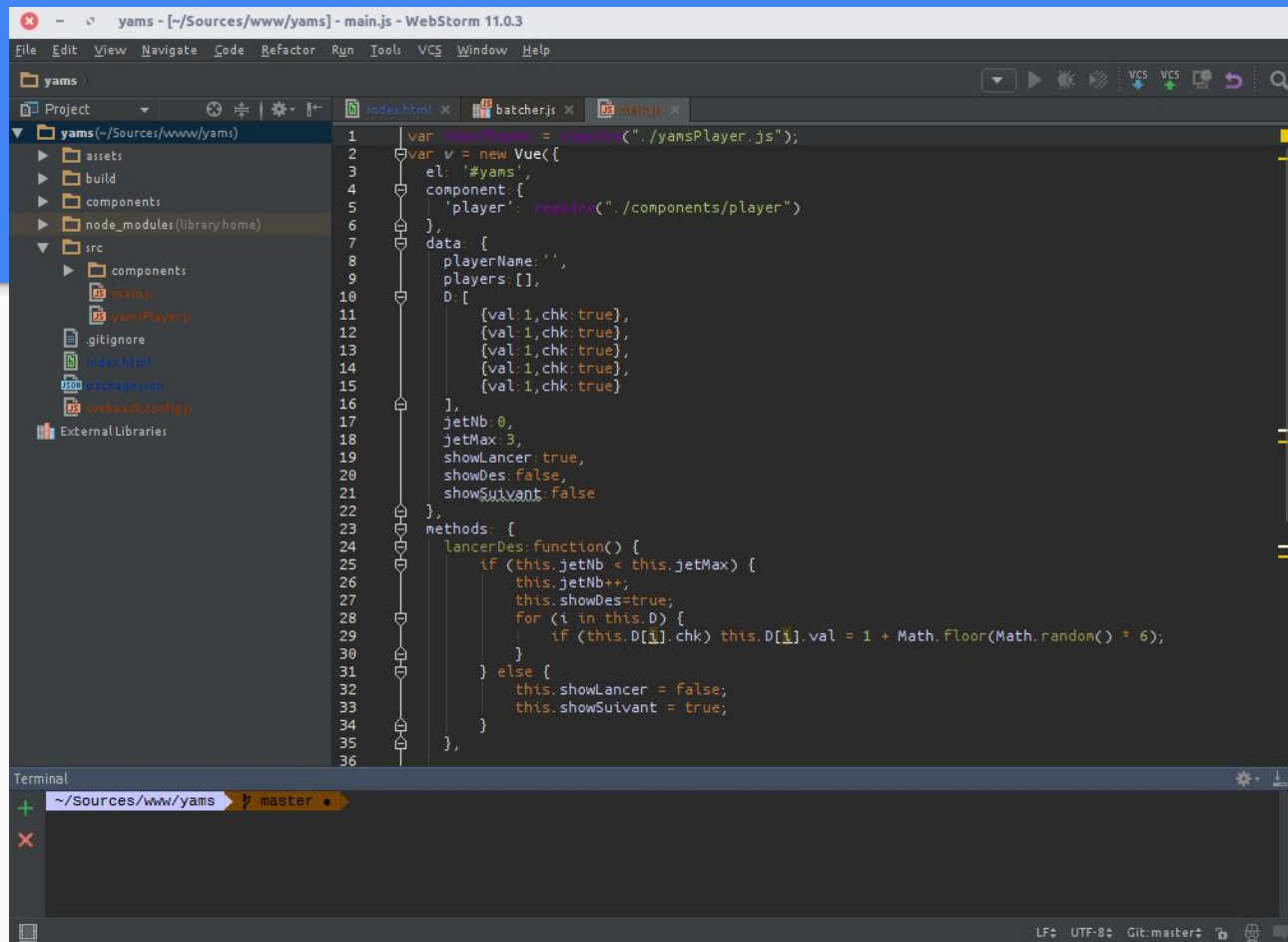


```
1 <?php
2 // Composer autoloader
3 require_once(__DIR__."/vendor/autoload.php");
4 include_once(__DIR__."/config/config.inc.php");
5
6
7 // Command line data
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26     echo "Fechting ".$tablePrefix."_% table structure on ".$cfg['DB']['BASE'].PHP_EOL;
27     echo "-----".PHP_EOL;
28     echo $cfg['OUTPUT_DIR'].PHP_EOL;
29     $b->build($cfg['OUTPUT_DIR']);
30 }
31 catch (\Exception $e) {
32     echo $e->getMessage();
33 }
```

NetBeans



WebStorm



DevTools Browser

Navigateur

- Chrome
- Firefox
- Edge
- Safari

Elements

The screenshot displays the developer tools interface of a web browser. The **Elements** panel on the left shows the DOM tree with the following structure:

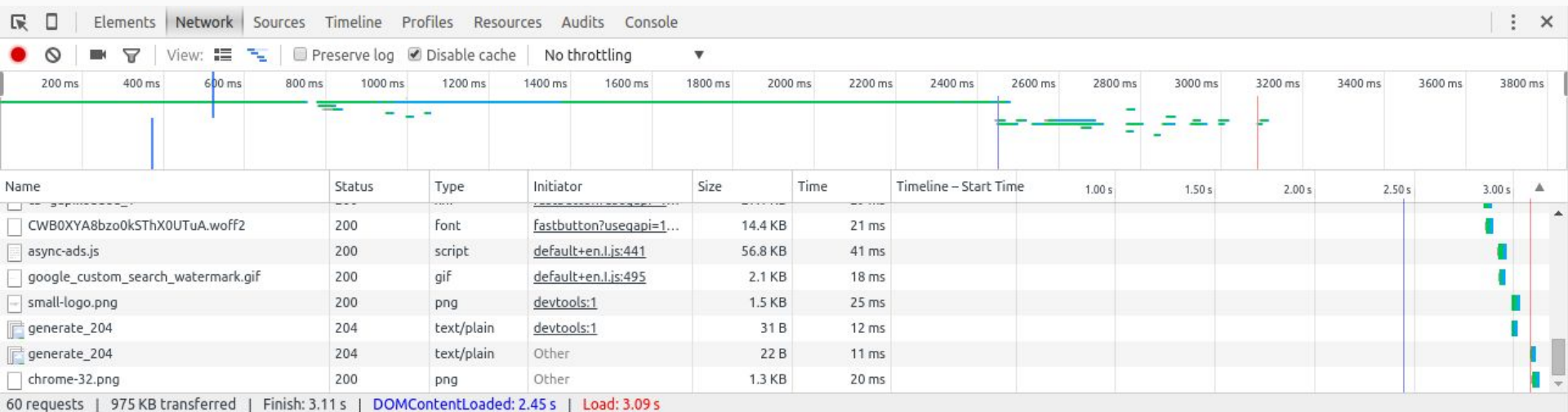
```
<!DOCTYPE html>
<html>
  <head>...</head>
  <body>
    <div class="gc-container">...</div>
    <footer id="gc-footer" role="contentinfo">...</footer>
    <script src="/static/is/fatnav.js"></script>
    <script src="/static/is/article.js"></script>
    <script src="/static/is/prettify.js"></script>
    <script src="/static/is/search.js"></script>
    <script src="//www.gstatic.com/feedback/api.js"></script>
    <script src="/static/is/site.js"></script>
    <iframe name="oauth2relay562452298" id="oauth2relay562452298" src="https://accounts.google.com/o/oauth2/postmessageRelay?parent=https%3A%2F%2Fdeveloper.chrome.com#rpcToken=777002990&forceSecure=1" tabindex="-1" style="width: 1px; height: 1px; position: absolute; top: -100px;">...</iframe>
    <table cellpadding="0" cellspacing="0" class="gstl_50 gssb_c" style="width: 2px; display: none; top: 3px; position: absolute; left: -1px;">...</table>
    <table cellpadding="0" cellspacing="0" class="gstl_51 gssb_c" style="width: 100%; display: none; top: -1px; position: absolute; left: 0px;">...</table>
  </body>
</html>
```

The **Styles** panel on the right shows the CSS rules applied to the selected element. The **body** element is selected, and the following styles are listed:

- element.style** { }
- body** { *font-size: 13px;* *color: #777;* } (source: [site.css:4](#))
- body** { *overflow: auto;* } (source: [site.css:4](#))
- body** { *margin: 0;* } (source: [site.css:4](#))
- *** { *padding: 0;* *margin: 0;* *moz-box-sizing: border-box;* *webkit-box-sizing: border-box;* } (source: [site.css:4](#))

The **html** and **body** elements are highlighted in the DOM tree, and the **body** element is selected in the Styles panel.

Network



Sources

The screenshot displays the Chrome DevTools interface with the 'Sources' panel active. The left sidebar shows a file tree for 'devtools x' with folders like 'static' and 'devtools'. The main pane shows the HTML source code of the page, starting with the DOCTYPE declaration and the opening tags for the html and head elements. The head section contains several meta tags for charset, content type, and compatibility, as well as viewport and canonical link tags. The right sidebar shows the 'Watch' and 'Call Stack' panels, both indicating 'Not Paused'.

Elements Network Sources Timeline Profiles Resources Audits Console

Sources Content scripts Snippets

devtools x

```
1 <!DOCTYPE html>
2 <html>
3   <head>
4     <meta charset="utf-8" />
5     <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
6     <meta http-equiv="X-UA-Compatible" content="IE=edge,chrome=1">
7     <meta name="HandheldFriendly" content="True">
8     <meta name="MobileOptimized" content="320">
9     <meta name="viewport" content="width=device-width, initial-scale=1.0">
10    <meta http-equiv="cleartype" content="on">
11    <link type="image/ico" rel="icon" href="//www.google.com/images/icons/product/chrome-32.png">
12
13    <link href="/static/css/out/site.css" rel="stylesheet" type="text/css">
14    <link href="/static/css/print.css" rel="stylesheet" type="text/css" media="print">
15    <link href="/static/css/prettify.css" rel="stylesheet" type="text/css">
16    <link href="//fonts.googleapis.com/css?family=Open+Sans:400,700|Source+Code+Pro" rel="stylesheet" type="text/css">
17
18    <link rel="canonical" href="https://developers.google.com/web/tools/setup/workspace/setup-devtools">
19  </head>
20 </html>
```

Line 1, Column 1

Watch +

Call Stack

Not Paused

Scope

Not Paused

Breakpoints

No Breakpoints

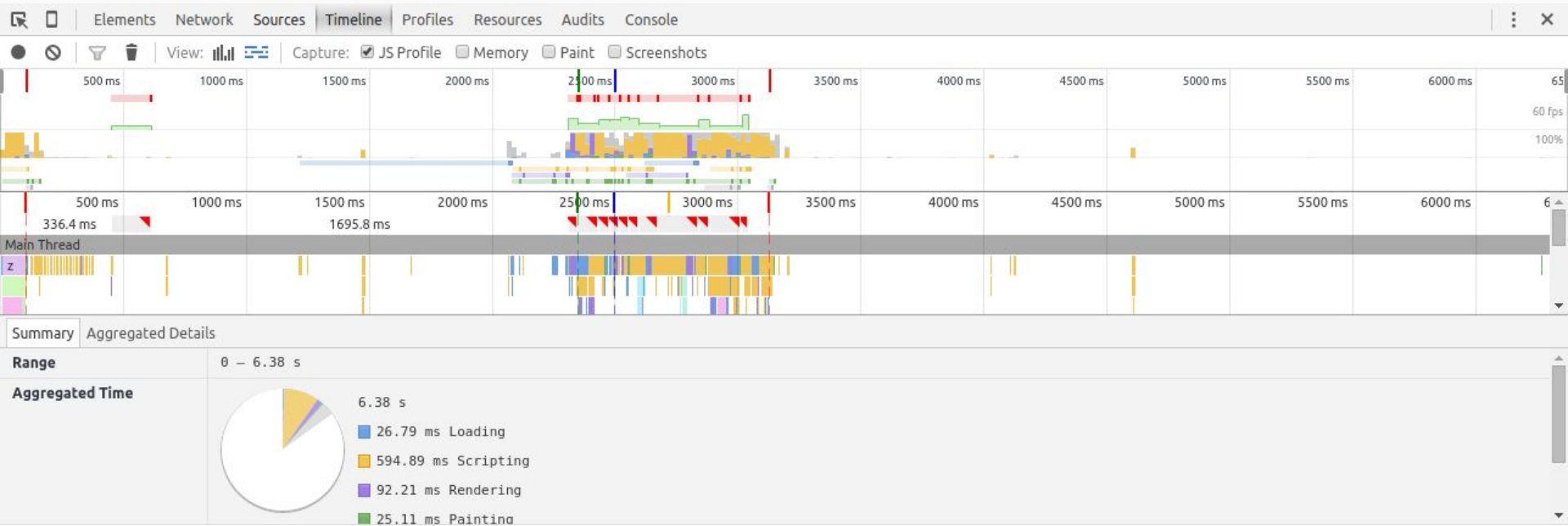
DOM Breakpoints

XHR Breakpoints +

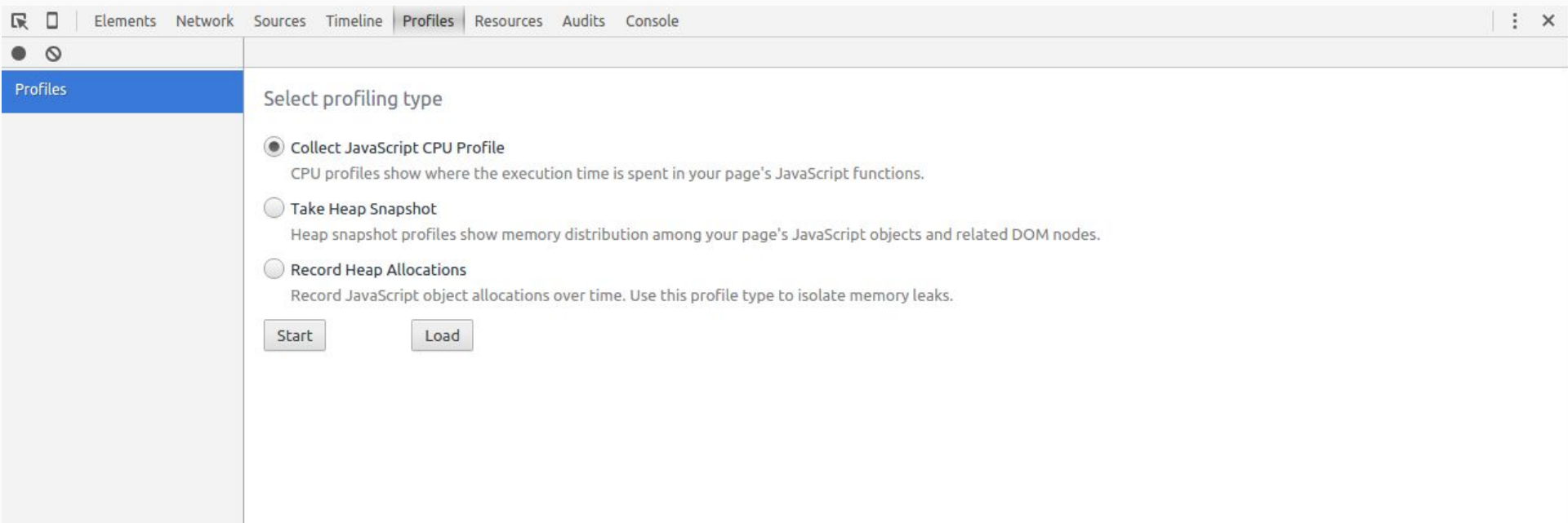
Event Listener Breakpoints

Event Listeners ↻

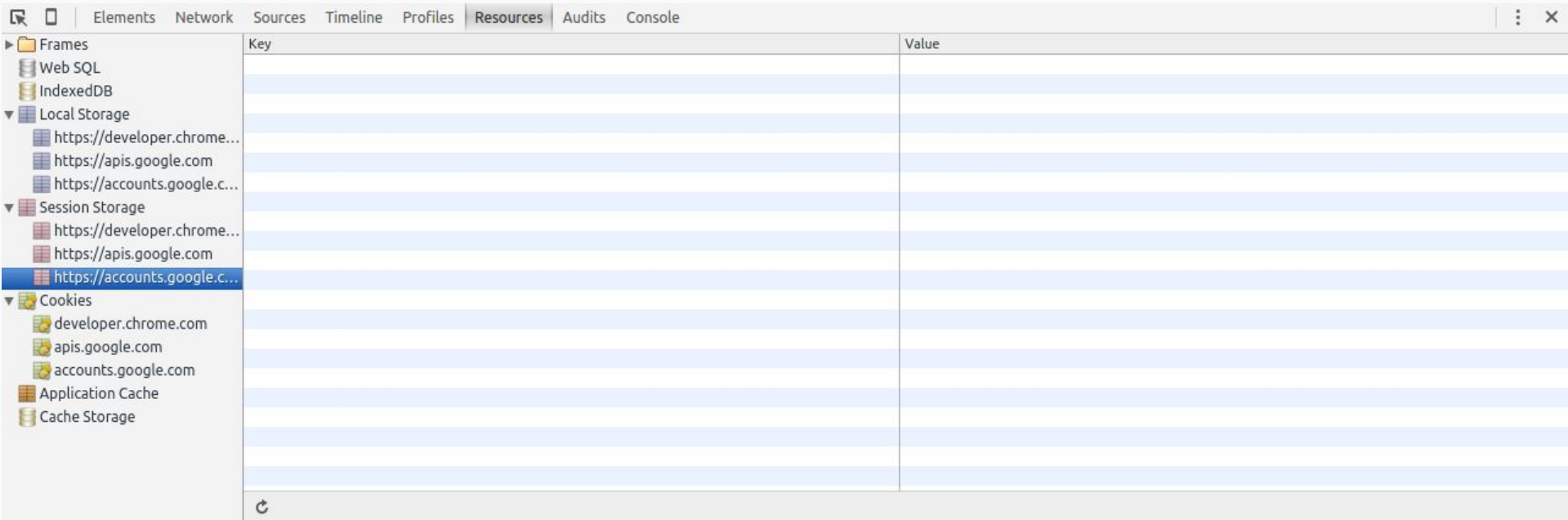
Timeline



Profile



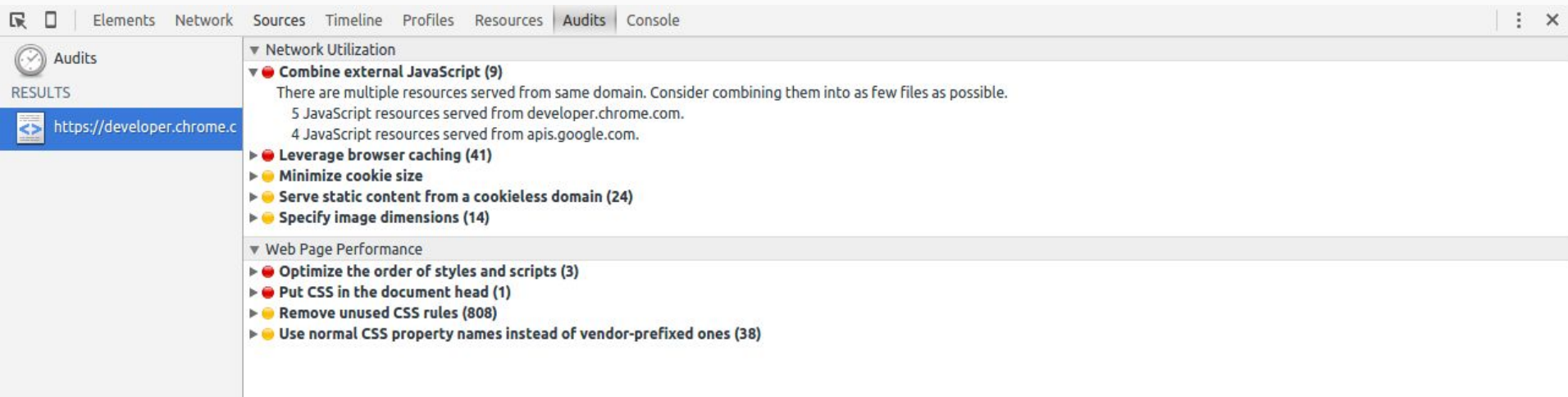
Ressources



The screenshot shows the Chrome DevTools interface with the 'Resources' tab selected. The left sidebar lists various storage types: Frames, Web SQL, IndexedDB, Local Storage, Session Storage, Cookies, Application Cache, and Cache Storage. Under 'Local Storage', three origins are listed: 'https://developer.chrome...', 'https://apis.google.com', and 'https://accounts.google.c...'. The 'https://accounts.google.c...' entry is selected, and its details are shown in the main panel. The main panel has a table with two columns: 'Key' and 'Value'. The table is currently empty, indicating no data is stored for the selected origin.

Key	Value
-----	-------

Audit



The screenshot displays the Chrome DevTools interface with the 'Audits' tab selected. The left sidebar shows the 'Audits' section with a 'RESULTS' header and the URL 'https://developer.chrome.c'. The main panel lists performance audits under two categories: 'Network Utilization' and 'Web Page Performance'.

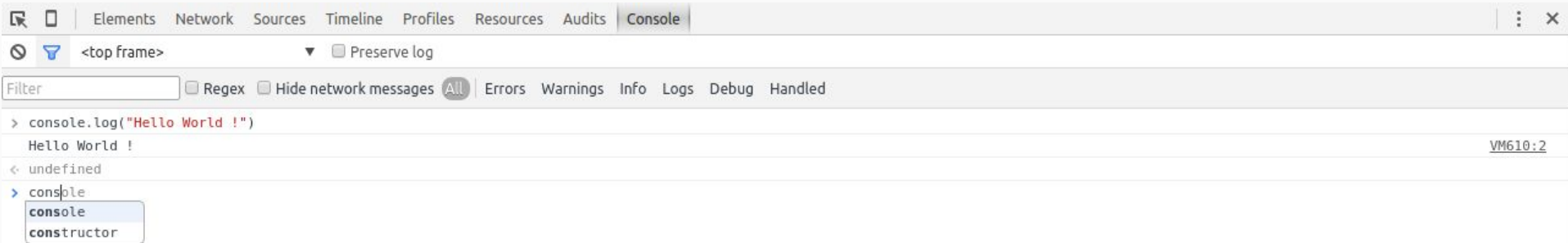
Network Utilization

- ❌ **Combine external JavaScript (9)**
There are multiple resources served from same domain. Consider combining them into as few files as possible.
 - 5 JavaScript resources served from developer.chrome.com.
 - 4 JavaScript resources served from apis.google.com.
- ⚠️ **Leverage browser caching (41)**
- ⚠️ **Minimize cookie size**
- ⚠️ **Serve static content from a cookieless domain (24)**
- ⚠️ **Specify image dimensions (14)**

Web Page Performance

- ❌ **Optimize the order of styles and scripts (3)**
- ❌ **Put CSS in the document head (1)**
- ⚠️ **Remove unused CSS rules (808)**
- ⚠️ **Use normal CSS property names instead of vendor-prefixed ones (38)**

Console



Device Lab

