

# PHPLint

```
#!/usr/bin/env php
<?php

/**
 * Linting Command Class
 *
 * @package CodeRobot
 */
class Lint_Command {

    private $count    = 0;
    private $errors   = array();
    private $options  = NULL;
    private $parse    = NULL;
    private $files    = FALSE;
    private $git      = NULL;

    /**
     * Command constructor
     *
     * @return void
     */
    public function __construct() {
        $this->path = $_SERVER['PWD'];
        $this->files = $this->get_piped_files();
        $this->run();
    }

    /**
     * Run the command
     *
     * @return void
     */
    private function run() {
        echo 'Linting files against PHP ' . phpversion() . PHP_EOL;
        if ($this->files) {
            foreach ($this->files as $file) {
                $this->check_file($path . '/' . $file);
            }
        } else { // Use arguments
            if ($_SERVER['argc'] > 1) {
                $last = end($_SERVER['argv']);
                if (substr($last, 0, 1) != '-') {

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        $this->path = $last; // snag last argument, if it wasn't an
option switch
    }
}

$this->parse_options();
$this->set_options();

if (is_dir($this->path)) {
    $this->check_directory_contents($this->path);
} elseif (is_file($this->path)) {
    $this->check_file($this->path);
} else {
    echo $this->path . 'is not a file or directory.' . PHP_EOL;
    $this->display_help();
}
}
$this->run_complete();
}

/**
 * Show the help menu
 *
 * @return void
 */
public function display_help() {
    echo PHP_EOL . 'usage: lint [-qR] [path]' . PHP_EOL . PHP_EOL .
        'options:' . PHP_EOL .
        '  -q, --quiet:      disable verbose output' . PHP_EOL .
        '  -b, --blame:     display git blame along with error messages'
    . PHP_EOL .
        '  --exclude:       comma separated list of folder patterns to
exclude' . PHP_EOL .
        '  -h, --help:     display this help screen' . PHP_EOL .
    PHP_EOL;
    exit(1);
}

/**
 * Check the directory contents for PHP files
 *
 * @param string $dir Path to the directory to check
 *
 * @return void
 */
function check_directory_contents($dir) {
    $di = new DirectoryIterator($dir);
    foreach ($di as $file) {
        // Ignore common junk
    }
}
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        if ($file->isDot() || ($file->getFilename() == '.git') ||
($file->getFilename() == '.svn')) {
            continue;
        }

        if ($this->matches_exclude_list($dir . '/' . $file->getFilename()))
{
            continue;
        }

        if ($file->isDir()) {
            $this->check_directory_contents($dir . '/' .
$file->getFilename());
            continue;
        }

        if ($file->isFile()) {
            $this->check_file($dir . '/' . $file->getFilename());
        }
    }
}

/**
 * Check the file for syntax errors
 *
 * @param string $path Path to the file to check
 *
 * @return void
 */
private function check_file($path) {
    // Skip non-php files
    if (substr($path, -4) != '.php') {
        return;
    }

    if (($this->count % 60 == 0)) {
        echo PHP_EOL;
    }

    $error = `php -l $path 2>&1 1> /dev/null`;
    if ($error) {
        preg_match('/line ([0-9]+)/i', $error, $line);
        $line = $line[1];
        $this->errors[] = (object)array(
            'message' => $error,
            'path'     => $path,
            'line'     => $line
        );
        echo 'E';
    } else {
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        echo '.';
    }

    $this->count++;
}

/**
 * Set the options for this run
 *
 * @return void
 */
private function set_options() {
    $args = array_keys(getopt('qRhb'));
    $this->options->quiet = FALSE;
    $this->options->blame = FALSE;
    foreach ($args as $arg) {
        switch ($arg) {
            case 'q':
            case 'quiet':
                $this->options->quiet = TRUE;
                ob_start();
                break;
            case 'b':
            case 'blame':
                if ($this->is_blame_possible()) {
                    $this->options->blame = TRUE;
                }
                break;
            case 'h':
            case 'help':
            default:
                $this->display_help();
                exit(0);
                break;
        }
    }
    if (empty($this->options->exclude)) {
        $this->options->exclude = array();
    }
}

/**
 * Parse the command line arguments
 *
 * @return void
 */
private function parse_options() {
    $this->options = (object) getopt('qhb', array(
        'quiet::',
    ));
}
```

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        'help::',
        'exclude::',
        'blame'
    ));
    if (!empty($this->options->exclude)) {
        $this->options->exclude = explode(',', $this->options->exclude);
        for ($i = 0; $i < count($this->options->exclude); $i++) {
            $this->options->exclude[$i] = str_replace('*', '.', $this->options->exclude[$i]);
        }
    }
}

/**
 * Get the piped files
 *
 * @return array
 */
private function get_piped_files() {
    $files = array();
    stream_set_blocking(STDIN, FALSE);
    while ($line = trim(fgets(STDIN))) {
        $files[] = $line;
    }
    return $files;
}

/**
 * Find if this path is excluded
 *
 * @param string $path Path to the file or directory
 *
 * @return boolean
 */
public function matches_exclude_list($path) {
    foreach ($this->options->exclude as $rule) {
        if (preg_match('%.' . $rule . '.+%i', $path)) {
            return TRUE;
        }
    }
    return FALSE;
}

/**
 * The run is complete, finish and clean up
 *
 * @return void
 */
```

```
private function run_complete() {
    echo PHP_EOL . $this->count . ' files checked, ' .
count($this->errors) . ' errors.' . PHP_EOL;

    foreach ($this->errors as $error) {
        echo $error->message;
        if ($this->options->blame) {
            $this->find_blame($error);
        }
    }

    if ($this->options->quiet) {
        ob_end_clean();
    }
    if (!empty($this->errors)) {
        exit(1);
    } else {
        exit(0);
    }
}

/**
 * Find who caused the error
 *
 * @param object $error The error path and message
 *
 * @return void
 */
private function find_blame($error) {
    $lines_in_file = (int)trim(`wc -l < $error->path`);
    if ($error->line > $lines_in_file) {
        $error->line = $lines_in_file;
    }
    $blame      = `git blame $error->path -L $error->line,$error->line --
porcelain`;
    $git_lines = explode(PHP_EOL, trim($blame));
    $blame     = array();
    foreach ($git_lines as $git_line) {
        @list($var, $value) = explode(' ', $git_line, 2);
        $blame[$var] = $value;
    }
    if ($blame['author-mail'] == '<not.committed.yet>') {
        echo '    Caused by you.' . PHP_EOL;
    } else {
        echo '    Caused by ' . $blame['author'] . ' ' . $blame['author-
mail'] . PHP_EOL;
    }
}
}
```

```
/**
 * Check if blame is possible, quit with error if not
 *
 * @return boolean
 */
private function is_blame_possible() {
    if ($this->is_git_installed()) {
        if ($this->is_git_repo()) {
            if (!$this->git_has_history()) {
                echo 'Cannot run blame, git repo does not have any commit
history.' . PHP_EOL;
                exit(1);
            }
        } else {
            echo 'Cannot run blame, path is not a git repo or you are ' .
                'trying to run lint from outside the repo.' . PHP_EOL;
            exit(1);
        }
    } else {
        echo 'Cannot run blame, git is not installed.' . PHP_EOL;
        exit(1);
    }
    return TRUE;
}

/**
 * Find if git is installed on this server
 *
 * @return boolean
 */
private function is_git_installed() {
    $git = trim(`which git`);
    return (!empty($git));
}

/**
 * Find if the path belongs to a git repo
 *
 * @return boolean
 */
private function is_git_repo() {
    $cmd = 'git status ' . $this->path . ' 2>&1';
    $response = trim(`$cmd`);
    if (strpos($response, 'fatal') !== FALSE) {
        return FALSE;
    } else {
        return TRUE;
    }
}
```

```
/**
 * Find if the git repo has commit history
 *
 * @return boolean
 */
private function git_has_history() {
    $cmd = 'git log ' . $this->path . ' 2>&1';
    $response = trim(`$cmd`);
    if (strpos($response, 'fatal') !== FALSE) {
        return FALSE;
    } else {
        return TRUE;
    }
}

}

// Hold on to your butts...
$lint = new Lint_Command();
```

```
chmod 755 /usr/local/bin/phplint
```

<https://github.com/dprevite/lint>

From:  
<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:  
<http://wuff.dyndns.org/doku.php?id=php:phplint>

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