

# PhantomJS and CasperJS

See [Browser Automation](#).

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*CasperJS* is was a navigation scripting & testing utility for PhantomJS and SlimerJS (still experimental). It eases the process of defining a full navigation scenario and provides useful high-level functions, methods & syntactic sugar for doing common tasks such as: defining & ordering navigation steps filling forms clicking links capturing screenshots of a page (or an area) making assertions on remote DOM logging & events downloading resources, even binary ones catching errors and react accordingly writing functional test suites, exporting results as JUnit XML (xUnit)

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*PhantomJS* is was a headless WebKit with JavaScript API. It has fast and native support for various web standards: DOM handling, CSS selector, JSON, Canvas, and SVG. PhantomJS is was an optimal solution for fast headless testing, site scraping, pages capture, SVG renderer, network monitoring and many other use cases.

## How to install CasperJS and PhantomJS for Tiki

Starting in [Tiki18](#), PhantomJS and CasperJS are available via [Packages](#)

### 1.1.1. Test the installation

The simplest is to use: [PluginCasperJS](#). Otherwise, use the following script to test (in the root of tiki, adjust path if other folder):

Create a file (ex.: scrape.php) with the following content

```
<?php // Require composer autoload require_once __DIR__ . '/vendor/autoload.php'; use Browser\Casper; $casper = new Casper(__DIR__ . '/bin/'); $casper->setOptions(array( 'ignore-ssl-errors' => 'yes' )); // screen shoot of homepage $casper ->start('http://tiki.org') ->setViewport(1024,800) ->waitForText('About Tiki') ->wait(200) ->capture( array( 'top' => 0, 'left' => 0, 'width' => 1024, 'height' => 800 ), 'custom-capture.png' ) ->run(); echo "The image was captured <br> <br> <img alt=" border='0' src='custom-capture.png'>";
```

Once you visit the newly created file, it will fetch the info at <http://tiki.org> and generate custom-capture.png

### 1.1.2. Expose them system-wide (optional)

In case you need to run some custom programs on a server which require casperjs and phantomjs, you may expose those programs to the whole server so that they can get accessed system wide from the usual `/usr/bin` folder where all programs are located on symlinked.

Imagine that your root tiki folder is `/var/www/html/`. Then you can create a symbolic link for each of the programs:

```
ln -s /var/www/html/bin/casperjs /usr/bin/casperjs ln -s /var/www/html/bin/phantomjs /usr/bin/phantomjs
```

This way you will be able to call casperjs or phantomjs from anywhere in the server, if you need it for your other custom scripts doing scraping for you sever-side.

## Troubleshooting

If you get the following error, just stop the script and try again later

```
> Tiki\Composer\BootstrapCompiler::build > Tiki\Composer\CleanVendors::clean > PhantomInstaller\Installer::installPhantomJS - Installing phantomjs (1.9.8) Downloading: Connecting... Could not fetch https://bitbucket.org/ariya/phantomjs/downloads/phantomjs-1.9.8-linux-x86_64.tar.bz2, please create a bitbucket OAuth token to go over the API rate limit Follow the instructions on
```

<https://confluence.atlassian.com/bitbucket/oauth-on-bitbucket-cloud-238027431.html> to create a consumer. It will be stored in "/root/.composer/auth.json" for future use by Composer. Ensure you enter a "Callback URL" or it will not be possible to create an Access Token (this callback url will not be used by composer) Consumer Key (hidden):

**To test, and check version**

```
[root@ ~]# phantomjs -v 1.9.8
```

## Related links

- [PhantomJS](#)
- [Browser Automation](#)

## Open Hub

alias

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- [PhantomJS | CasperJS](#)