

# PluginCasperJS

New to Tiki17. This new wiki plugin allows to use "CasperJS" in Tiki, which is 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. See more information at [PhantomJS](#) and [CasperJS](#)

# Parameters

Enable running CasperJS scripts from this Tiki site.

*Introduced in Tiki 17.*

Go to the source code

*Preferences required:* wikiplugin\_casperjs

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## Parameters

*(body of plugin) - text*

*no parameters*

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# How to use the code

- Install Package (jerome-breton/casperjs-installer)
- Enable casper (pref wikiplugin\_casperjs)
- Create a tiki page with the following content:

```
{CASPERJS()} {SOURCE()} var casper = require('casper').create(); var links; function getLinks() { // Scrape the links
    from top-right nav of the website var links = document.querySelectorAll('ul.navigation li a'); return
    Array.prototype.map.call(links, function (e) { return e.getAttribute('href') }); } // Opens casperjs homepage
casper.start('http://casperjs.org/'); casper.then(function () { links = this.evaluate(getLinks); tikiBridge.add('links',
    links); }); {SOURCE} {CASPERJS}
```

- Run it 

# What works

Currently, it runs casperjs, and display back to the user:

- The (full) script that was run
- The output of the command line
- The results from the casperjs execution, using TikiBridge (is injected into the CasperJS script as an easy way to send results back to tiki).

How does the TikiBridge works:

- Before running the script it prefix and postfix the CasperJS script with some JS code (the TikiBridge)
- You can send variables back to Tiki by calling `TikiBridge.add('variable_name', variable)`
- At the end of the script (is appended) a call to `TikiBridge.done` that will format the variables to be sent back to tiki.

# Next Steps

- Discuss specific implementations to see how to use this data and what is needed to make it useful to a tiki instance.
- Make some profiles

# Examples

# Taking Screenshots with CasperJS

In a Tiki Page, use the following code:

```
{CASPERJS()} {SOURCE()} var casper = require('casper').create(); casper.start('https://dev.tiki.org/Development',  
function() { casper.capture('screenshots/tiki_dev.png'); this.echo('File saved in TIKI_ROOT/screenshots/tiki_dev.png')  
}); casper.run(); {SOURCE} {CASPERJS}
```

Click on Execute CasperJS script and the screenshot will be stored in "TIKI\_ROOT/screenshots", with "tiki\_dev.png" filename

## Output

### Console Output

```
$ /var/www/localhost/bin/casperjs '/var/tmp/casperjs-script-asC40W'  
File saved in TIKI_ROOT/screenshots/tiki_dev.png
```

Click to expand

# Fetch page Titles with CasperJS

In a Tiki Page, use the following code.

```
{CASPERJS()} {SOURCE()} var casper = require('casper').create(); casper.start('https://tiki.org/HomePage', function()
    { this.echo('https://tiki.org/HomePage page title:' + this.getTitle()); });
casper.thenOpen('https://dev.tiki.org/Development', function() { this.echo('https://dev.tiki.org/Development page
    title:' + this.getTitle()); }); casper.run(); {SOURCE} {CASPERJS}
```

## Output

### Console Output

```
$ /var/www/localhost/bin/casperjs '/var/tmp/casperjs-script-SDjvOI'
https://tiki.org/HomePage page title:HomePage | Tiki Wiki CMS Groupware :: Community
https://dev.tiki.org/Development page title:Development | Tiki Wiki CMS Groupware :: Development
```

Click to expand

# Scrape Google and get results Title Tags with CasperJS

In a Tiki Page, use the following code:

```
{CASPERJS()} {SOURCE()} var titleTags = []; var casper = require('casper').create(); function getLinks() { var titleTags = document.querySelectorAll('h3.r a'); return Array.prototype.map.call(titleTags, function(e) { return e.innerText; }); } // Set user-agent to render page like chrome casper.userAgent('Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/70.0.3538.77 Safari/537.36'); casper.start('http://google.com/', function() { // Wait for the page to be loaded this.waitForSelector('form[action="/search"]'); }); casper.then(function() { // search for 'tikiwiki groupware' from google this.fill('form[action="/search"]', { q: 'tikiwiki groupware' }, true); }); casper.then(function() { // aggregate results for the 'tikiwiki groupware' search titleTags = this.evaluate(getLinks); }); casper.run(function() { this.echo(titleTags.length + ' Title Tags found:'); this.echo(' - ' + titleTags.join('\n - ')).exit(); }); {SOURCE} {CASPERJS}
```

## Output

### Console Output

```
$ /var/www/localhost/bin/casperjs '/var/tmp/casperjs-script-twoqla'
6 Title Tags found:
- Demo
- Introduction
- Download
- Installation
- Documentation
- Features
```

Click to expand