

# **Kasvatustieteen perusopinnot**

---

## **KASPERI**

**Kurpitsa Yliopisto**  
**Jukka Paasonen**  
**25 op**

Wrong Kasper, dude!

Sorry...



# Navigation scripting and testing CASPERJS

# Me, Jukka Paasonen

## A CasperJS issue commentor

### Coding style, single or double quotes? #1122

Open

paazmaya opened this issue 10 days ago · 1 comment

 paazmaya commented 10 days ago

If possible, could you try running with PhantomJS 1.9.8 and --debug=yes added in the command line?



paazmaya commented 10 days ago



Can you share the a.js and b.js with minimal working example code so this could be added to the tests?



paazmaya commented 10 days ago

Could you provide a minimal working example?



paazmaya commented 9 days ago



Can you provide a minimal working example in which such popups appear?



paazmaya commented 9 days ago



Would you like to create a pull request for adding this feature?



Juga Paazmaya

@paazmaya

Preparing #casperjs #workshop #diplomas  
for Friday. Thank you @n1k0 for  
@casperjs\_org and @jeorlin for character



12:59 PM - 20 Jan 2015



Juga Paazmaya @paazmaya · Jan 20

Preparing #casperjs #workshop #diplomas for Friday. Thank you @n1k0 for  
@casperjs\_org and @jieorlin for character pic.twitter.com/Kczg7TCD5Y



Nicolas Perriault

@n1k0

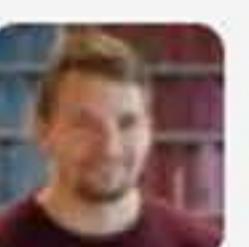


Following

@paazmaya :)



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Reply to @n1k0

## Trends

#AdaletiBeklerken ElliTLyeTTyaplrr 536x267x9887 #Jonghyun4thWin #HirapKasiSayo

#InfoWajahCantik Smyczek #名前を3文字消すと可愛い POP BAND One Direction JaDine

For CloseUp Game 7

CasperJS is a navigation  
scripting & testing  
utility for PhantomJS  
and SlimerJS written  
in JavaScript



# A typical CasperJS script

```
var casper = require('casper').create();

casper.start('http://casperjs.org/', function() {
    this.echo(this.getTitle());
});

casper.thenOpen('http://phantomjs.org', function() {
    this.echo(this.getTitle());
});

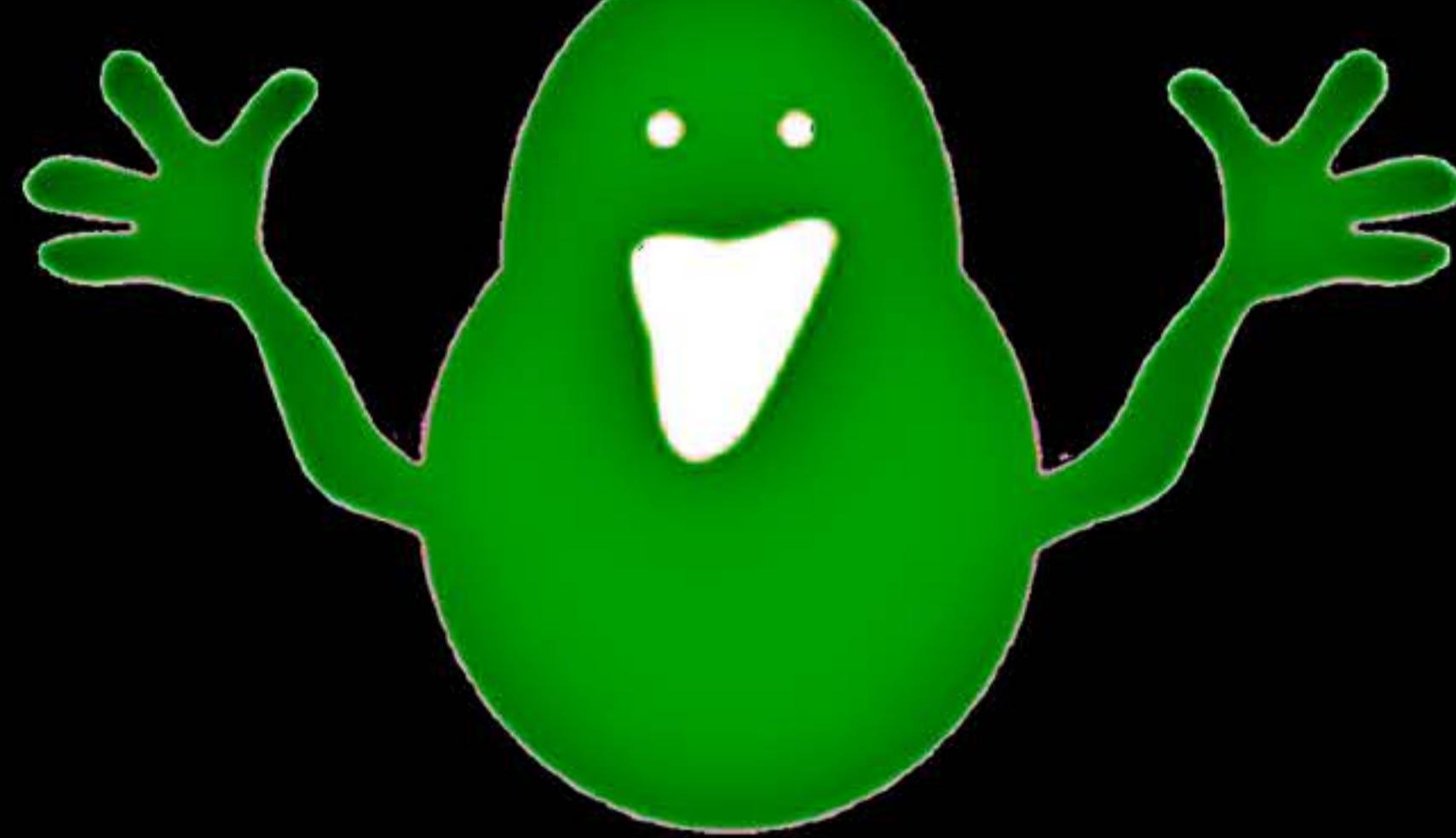
casper.thenOpen('http://slimerjs.org', function() {
    this.echo(this.getTitle());
});

casper.run();
```

CasperJS runs on  
top of:



PhantomJS



SlimerJS



TrifleJS  
**Not yet!**

**PhantomJS is a headless  
WebKit scriptable with  
a JavaScript API.**



**SlimerJS is similar to PhantomJs,  
except that it runs on top of  
Gecko, the browser engine of  
Mozilla Firefox**



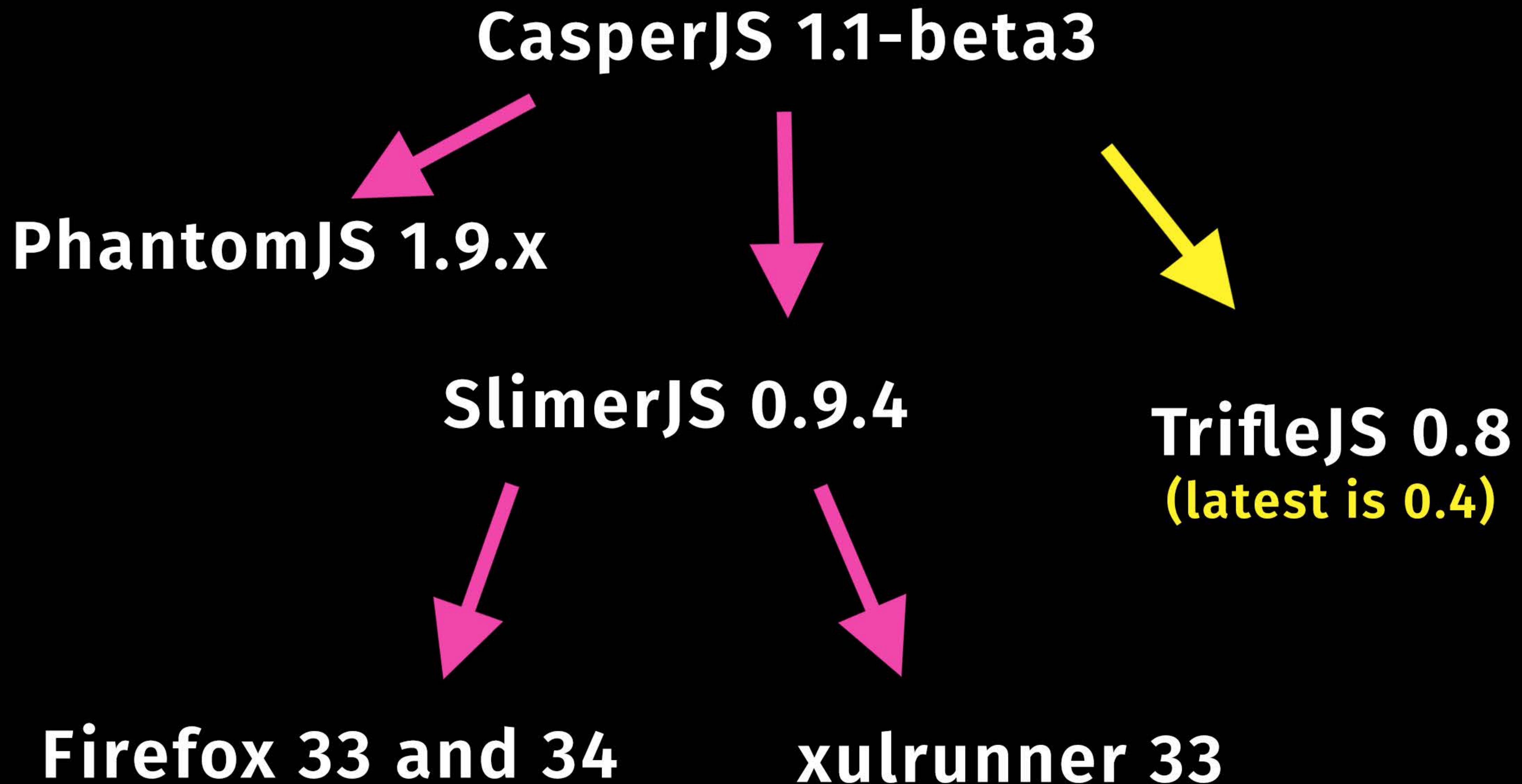
**...and is not yet truly headless**

*Windows only...*

**TrifleJS is a headless  
Internet Explorer  
browser using the  
.NET WebBrowser Class  
with a Javascript API  
running on the V8 engine.**



# Version matching latest release (pink is ok)



CasperJS uses the PhantomJS API,  
which might seem as like Node.js,  
but it is not

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

# Utility module example

```
var utils = require('utils');
var casper = require('casper').create();

casper.start('http://microsoft.com/', function(response) {
    utils.dump(response.headers);
});

casper.run();
```

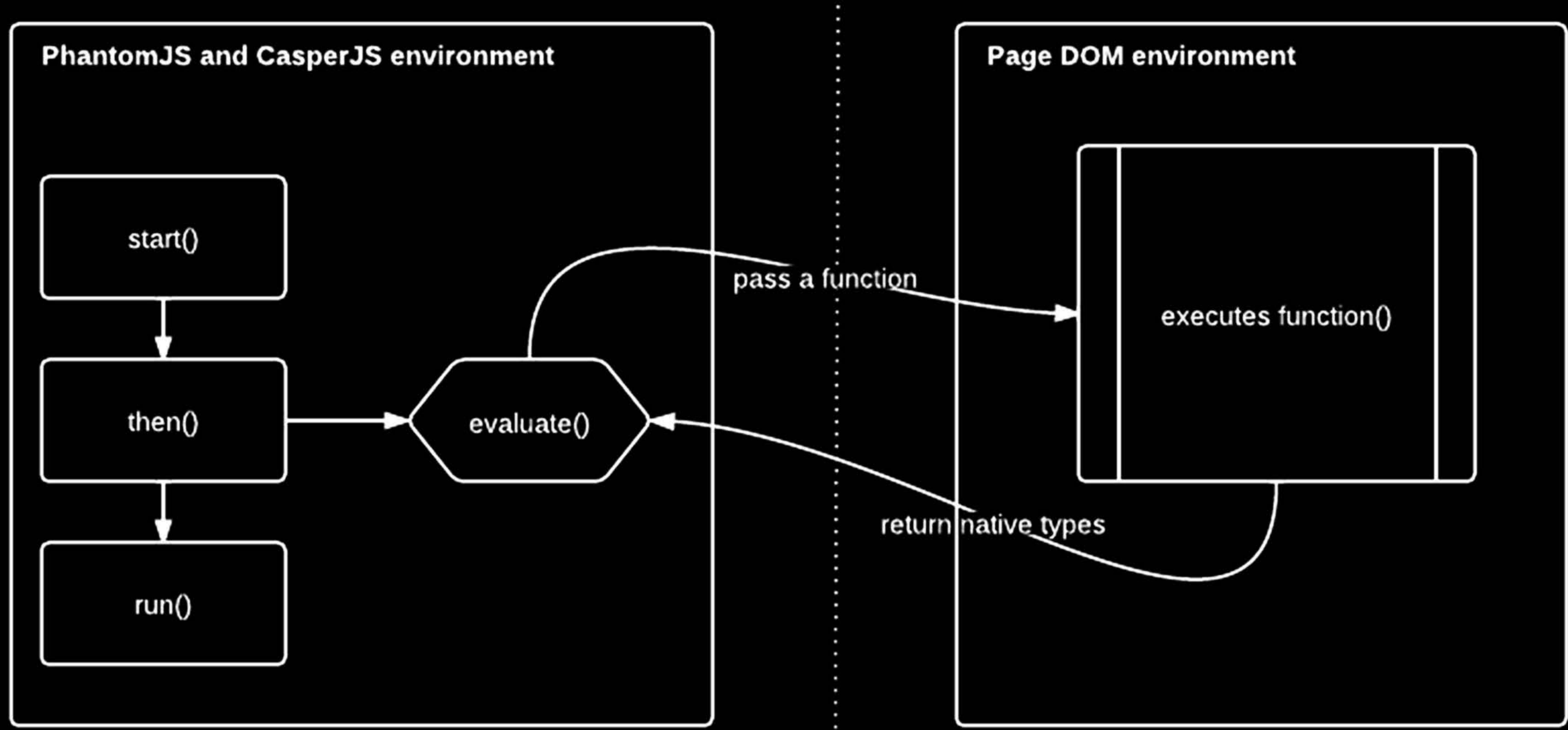
# File system module example

```
var fs = require('fs');
var casper = require('casper').create();

casper.start('http://microsoft.com/', function(response) {
    var stream = fs.open('microsoft-response.json', 'w');
    stream.write(JSON.stringify(response, null, ' '));
    stream.close();
});

casper.run();
```

# Script evaluation inside the page context



# Evaluation example



# Evaluate example

Get the version of jQuery,  
while assuming it is on the page

```
var casper = require('casper').create();

casper.start('http://paazmaya.com/', function(response) {
    var version = this.evaluate(function() {
        return $.fn.jquery;
    });
    this.echo('jQuery version: ' + version);
});

casper.run();
```

# **Assertion framework for testing**

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**Becomes available only with  
the use of test command**

# Assert evaluation example

```
casper.test.begin('At least jQuery 2.1 test', 1, function(test) {
    casper.start('http://paazmaya.com/').then(function() {
        test.assertEval(function() {
            var ver = $.fn.jquery.split('.');
            return ver[0] > 2 || (ver[0] == 2 && ver[1] >= 1);
        }, 'Page has at least jQuery version 2.1');
    }).run(function() {
        test.done();
    });
});
```

# Assert resource example

```
var url = 'http://www.microsoft.com/en-us/mobile/phone/lumia635/specifications/';

casper.test.begin('Changing the product image from color options', 2, function(test) {
  casper.start(url, function() {
    this.viewport(1280, 900);
  }).then(function () {
    test.assertResourceExists(function(resource) {
      return resource.url.match('Lumia-635-White-new-spec-png.png');
    }, 'White image existed on default');
  }).then(function () {
    this.click('#variant-3');
    this.wait(300, function() {
      test.assertResourceExists(function(resource) {
        return resource.url.match('Lumia-635-Cyan-Front-png.png');
      }, 'Cyan image appeared after click event');
    });
  }).run(function() {
    test.done();
  });
});
```

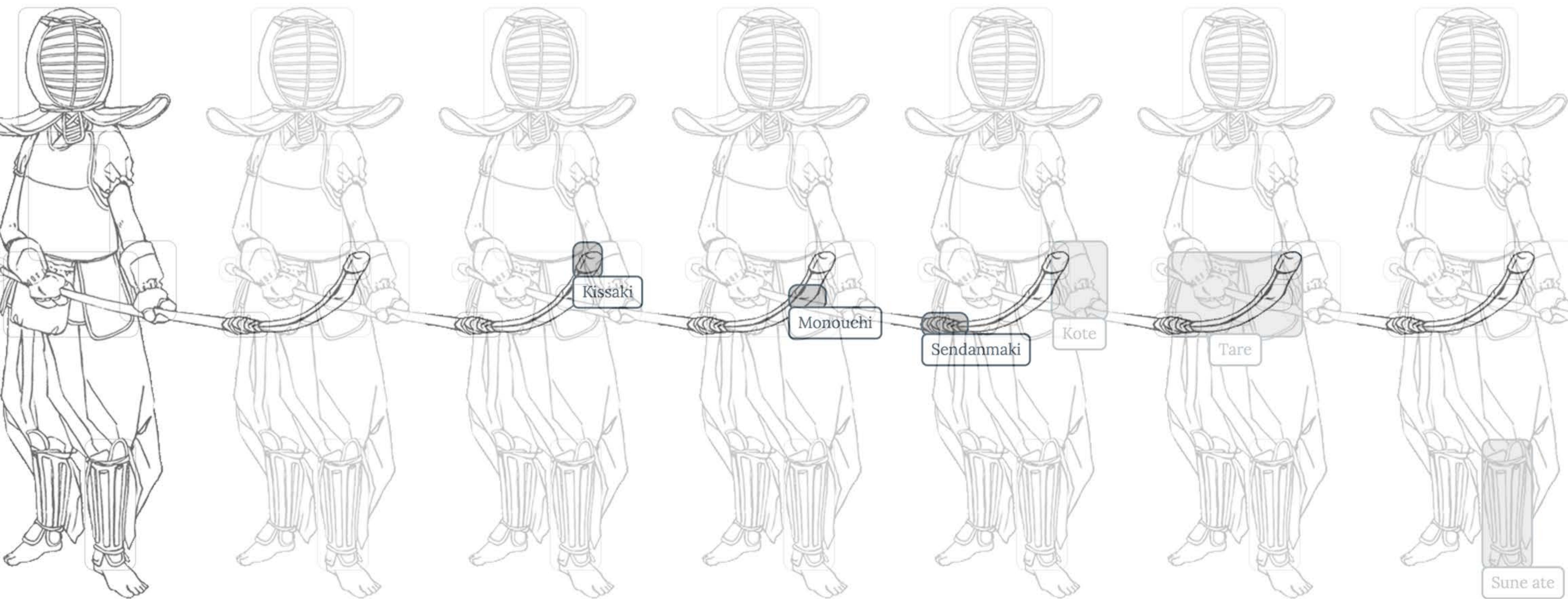
# Screen capture

# Screen capture example

```
var casper = require('casper').create({  
    viewportSize: {  
        width: 800,  
        height: 800  
    }  
});  
  
casper.start('http://codepen.io/mr_alien/full/GLIjo/', function() {  
    this.capture('best-casperjs-student.png');  
});  
  
casper.thenOpen('http://codepen.io/tvolodimir/full/wqKuJ/', function() {  
    this.wait(Math.random() * 2000 + 2000, function() {  
        this.capture('valentines-day-is-soon.png');  
    });  
});  
  
casper.run();
```

# Screen captures of the test suite could be used to create a video

Such as these from hover events



**Juga Paazmaya**

@paazmaya

Thank you @casperjs\_org, @PhantomJS,  
@slimerjs, @triflejs and @FFmpeg for making  
it possible [paazmaya.com/making-a-video](http://paazmaya.com/making-a-video)

...



...

RETWEET

1

FAVORITES

2



6:49 PM - 20 Jan 2015



Reply to @casperjs\_org @PhantomJS @slimerjs @triflejs @FFmpeg



Juga Paazmaya @paazmaya · 18h

Thank you @casperjs\_org, @PhantomJS, @slimerjs, @triflejs and @FFmpeg for making it possible [paazmaya.com/making-a-video...](http://paazmaya.com/making-a-video...)



1



2

...



mickaël andrieu

@mickael\_andrieu



+ Follow

@paazmaya @casperjs\_org @PhantomJS  
@slimerjs @triflejs @FFmpeg this is an  
amazing use of "our work", thanks for share  
:)



...

FAVORITE

1



7:37 PM - 20 Jan 2015

**FUTURE!**

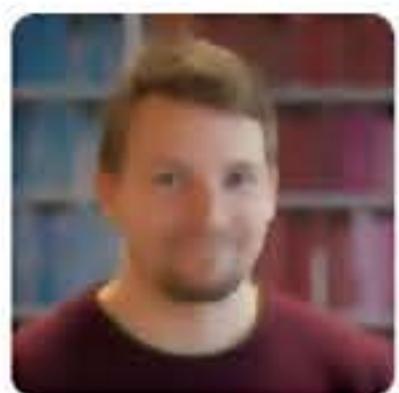
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CASPERJS  
v1.1

# New 1.1-beta release? #1117

! Open

paazmaya opened this issue 14 days ago · 8 comments



paazmaya commented 14 days ago



It would be great to have a named release, if that is still possible, to follow the 1.1 line.

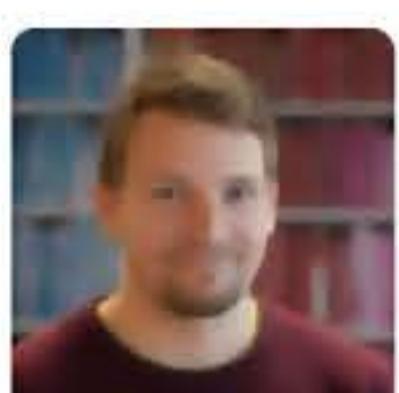
It has been a while from 1.1-beta3 and while I have been using master as a direct replacement for it, there has not been any major issues, at least in my use cases...



n1k0 commented 14 days ago

Owner

You're right... I'm overbusy with my new position as a full time Mozilla employee. But I'll try to release 1.1 stable in the next few weeks.



paazmaya commented 13 days ago



Great to hear (that I am right)!

@n1k0 please let me know if there is something I could do to help in getting it released...

**PHANTOMJS**  
**v2**

# PhantomJS 2

Drahakar edited this page 4 days ago · 30 revisions

The next version, PhantomJS 2, is still in the development. It will be based on Qt 5.

As of May 2014 it is based on webkit 538.1 (7 months old).

## Source code

```
git clone git://github.com/ariya/phantomjs.git  
cd phantomjs
```

## Building

**Warning:** Building PhantomJS 2 from source can take a very long time (~30 minutes with 4 parallel compile jobs).

▼ P

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**TRIFLEJS**  
v0.8

# Roadmap

- **v0.3** – 56% of PhantomJS API – [Release Notes](#)
- **v0.4** – 72% of PhantomJS API – [Release Notes](#)
- **v0.5** – (work in progress...)
- **v0.6** – 100% of PhantomJS non-WebPage modules, 80% of WebPage module API
- **v0.7** – 100% of PhantomJS Core API (v1.7) + internal unit tests
- **v0.8** – [CasperJS](#) Support (implement Test suite and fixes)
- **v0.9** – Testing and Support for Windows platforms (after XP SP2).
- **v1.0** – Only minor Bugfixes left
- **v1.1** – Nice to haves (WebDriver, improved IPC, REPL Autocompletion etc)



Thank  
YOU!

# References and image credits

<https://github.com/cssdream/cssgrace>

<https://github.com/n1k0/casperjs/issues>

<https://twitter.com/paazmaya>

<http://casperjs.org>

<http://phantomjs.org>

<http://slimerjs.org>

<http://triflejs.org>

<http://www.fanpop.com/clubs/my-little-pony-friendship-is-magic/images/31014111/title/offical-mlp-firefox-logo-photo>

[http://commons.wikimedia.org/wiki/File:Internet\\_Explorer\\_10\\_logo.svg](http://commons.wikimedia.org/wiki/File:Internet_Explorer_10_logo.svg)

<http://docs.casperjs.org/en/latest/modules/casper.html>

<http://accaweb.com.au/2012/06/26/mid-year-evaluation-form>

<http://naginata.fi/en/naginata>

<https://github.com/ariya/phantomjs/wiki/PhantomJS-2>

<http://yisbl.github.io/share/css-post-processor.html#/33>