

/*!

* Casper is a navigation utility for PhantomJS.

*

* Documentation: <http://casperjs.org/>

* Repository: <http://github.com/n1k0/casperjs>

*

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```

*
*/

/*global process, console, phantom, slimer, require:true*/
/*jshint maxstatements:34, maxcomplexity:10*/

// node check
if ('process' in this && process.title === "node") {
    console.error('CasperJS cannot be executed within a nodejs environment');
    process.exit(1);
}

// phantom check
if (!('phantom' in this)) {
    console.error('CasperJS needs to be executed in a PhantomJS environment
http://phantomjs.org/');
}

// Common polyfills
if (typeof Function.prototype.bind !== "function") {
    // https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Function/bind#Compatibility
    Function.prototype.bind = function (oThis) {
        "use strict";
        /* jshint -W055 */
        if (typeof this !== "function") {
            // closest thing possible to the ECMAScript 5 internal IsCallable function
            throw new TypeError("Function.prototype.bind - what is trying to be bound is not callable");
        }
    }
}

```

```

    }

    var aArgs = Array.prototype.slice.call(arguments, 1),

        fToBind = this,

        fNOP = function() {},

        fBound = function() {

            return fToBind.apply(this instanceof fNOP && oThis ? this : oThis,

                aArgs.concat(Array.prototype.slice.call(arguments)));

        };

    fNOP.prototype = this.prototype;

    fBound.prototype = new fNOP();

    return fBound;

};
}

```

```
// Custom base error
```

```
var CasperError = function CasperError(msg) {
```

```
    "use strict"
```

```
    Error.call(this);
```

```
    this.message = msg;
```

```
    this.name = 'CasperError';
```

```
};
```

```
CasperError.prototype = Object.getPrototypeOf(new Error());
```

```
// casperjs env initialization
```

```
(function(global, phantom){
```

```
    /*jshint maxstatements:99*/
```

```
    "use strict";
```

```
// phantom args
var sysargs = require('system').args;
var phantomArgs = [];
// don't take the first value; this mimics the contents of the old phantom.args
for (var i = 1; i < sysargs.length; i++) {
    phantomArgs.push(sysargs[i]);
}

if (phantom.casperLoaded) {
    return;
}

function __die(message) {
    if (message) {
        console.error(message);
    }
    phantom.exit(1);
}

function __terminate(message) {
    if (message) {
        console.log(message);
    }
    phantom.exit();
}

(function (version) {
```

```

// required version check

if (version.major === 1) {
    if (version.minor < 8) {
        return __die('CasperJS needs at least PhantomJS v1.8 or later.');
```

 }

```

    if (version.minor === 8 && version.patch < 1) {
        return __die('CasperJS needs at least PhantomJS v1.8.1 or later.');
```

 }

```

} else if (version.major === 2) {
    console.log("Warning PhantomJS v2.0 not yet released. There will not be any official
support for any bugs until stable version is released!");
}

else return __die('CasperJS needs PhantomJS v1.x or v2.x');
```

```

})(phantom.version);

// Hooks in default phantomjs error handler

phantom.onError = function onPhantomError(msg, trace) {
    phantom.defaultErrorHandler.apply(phantom, arguments);
    // print a hint when a possible casperjs command misuse is detected
    if (msg.indexOf("ReferenceError: Can't find variable: casper") === 0) {
        console.error('Hint: you may want to use the `casperjs test` command.');
```

 }

```

    // exits on syntax error
    if (msg.indexOf('SyntaxError: Parse error') === 0) {
        __die();
    }
};

```

```

// Patching fs
var fs = (function patchFs(fs) {
  if (!fs.hasOwnProperty('basename')) {
    fs.basename = function basename(path) {
      return path.replace(/.*\\/, "");
    };
  }

  if (!fs.hasOwnProperty('dirname')) {
    fs.dirname = function dirname(path) {
      if (!path) return undefined;
      return path.toString().replace(/\\g, '/').replace(/V[^V]*$/, "");
    };
  }

  if (!fs.hasOwnProperty('isWindows')) {
    fs.isWindows = function isWindows() {
      var testPath = arguments[0] || this.workingDirectory;
      return (/^[a-z]{1,2}:/i).test(testPath) || testPath.indexOf("\\\\") === 0;
    };
  }

  if (fs.hasOwnProperty('joinPath')) {
    fs.pathJoin = fs.joinPath;
  } else if (!fs.hasOwnProperty('pathJoin')) {
    fs.pathJoin = function pathJoin() {
      return Array.prototype.join.call(arguments, '/');
    };
  }

  return fs;
}

```

```

})(require('fs'));

// CasperJS root path
if (!phantom.casperPath) {
  try {
    phantom.casperPath = phantomArgs.map(function _map(arg) {
      var match = arg.match(/^--casper-path=(.*)/);
      if (match) {
        return fs.absolute(match[1]);
      }
    }).filter(function _filter(path) {
      return fs.isDirectory(path);
    }).pop();
  } catch (e) {
    return __die("Couldn't find nor compute phantom.casperPath, exiting.");
  }
}

/**
 * Prints CasperJS help.
 */
function printHelp() {
  var engine = phantom.casperEngine === 'slimerjs' ? slimer : phantom;
  var version = [engine.version.major, engine.version.minor, engine.version.patch].join('.');
  return __terminate([
    'CasperJS version ' + phantom.casperVersion.toString() +
    ' at ' + phantom.casperPath + ', using ' + phantom.casperEngine + ' version ' + version,
  ]);
}

```

```

    fs.read(fs.pathJoin(phantom.casperPath, 'bin', 'usage.txt'))
  ].join('\n'))
}

/**
 * Patched require to allow loading of native casperjs modules.
 * Every casperjs module have to first call this function in order to
 * load a native casperjs module:
 *
 *   var require = patchRequire(require);
 *   var utils = require('utils');
 *
 * Useless for SlimerJS
 */
function patchRequire(require) {
  if (require.patched) {
    return require;
  }

  function fromPackageJson(module, dir) {
    var pkgPath, pkgContents, pkg;

    pkgPath = fs.pathJoin(dir, module, 'package.json');

    if (!fs.exists(pkgPath)) {
      return;
    }

    pkgContents = fs.read(pkgPath);

    if (!pkgContents) {
      return;
    }
  }

```



```

    }

    try {
        pkg = JSON.parse(pkgContents);
    } catch (e) {
        return;
    }

    if (typeof pkg === "object" && pkg.main) {
        return fs.absolute(fs.pathJoin(dir, module, pkg.main));
    }
}

function resolveFile(path, dir) {
    var extensions = ['.js', '.coffee', '.json'];
    var basenames = [path, path + '/index'];
    var paths = [];
    var nodejsScript = fromPackageJson(path, dir);
    if (nodejsScript) {
        return nodejsScript;
    }
    basenames.forEach(function(basename) {
        paths.push(fs.absolute(fs.pathJoin(dir, basename)));
        extensions.forEach(function(extension) {
            paths.push(fs.absolute(fs.pathJoin(dir, [basename, extension].join('.'))));
        });
    });
    for (var i = 0; i < paths.length; i++) {
        if (fs.isFile(paths[i])) {
            return paths[i];
        }
    }
}

```

```

    }
}
return null;
}
function getCurrentScriptRoot() {
    if ((phantom.casperScriptBaseDir || "").indexOf(fs.workingDirectory) === 0) {
        return phantom.casperScriptBaseDir;
    }
    return fs.absolute(fs.pathJoin(fs.workingDirectory, phantom.casperScriptBaseDir));
}
function casperBuiltinPath(path) {
    return resolveFile(path, fs.pathJoin(phantom.casperPath, 'modules'));
}
function nodeModulePath(path) {
    var resolved, prevBaseDir;
    var baseDir = getCurrentScriptRoot();
    do {
        resolved = resolveFile(path, fs.pathJoin(baseDir, 'node_modules'));
        prevBaseDir = baseDir;
        baseDir = fs.absolute(fs.pathJoin(prevBaseDir, '..'));
    } while (!resolved && baseDir !== '/' && baseDir !== prevBaseDir);
    return resolved;
}
function localModulePath(path) {
    return resolveFile(path, phantom.casperScriptBaseDir || fs.workingDirectory);
}
var patchedRequire = function patchedRequire(path) {

```

```

try {
    return require(casperBuiltinPath(path) ||
        nodeModulePath(path) ||
        localModulePath(path) ||
        path);
} catch (e) {
    throw new CasperError("Can't find module " + path);
}
};

patchedRequire.cache = require.cache;
patchedRequire.extensions = require.extensions;
patchedRequire.stubs = require.stubs;
patchedRequire.patched = true;
return patchedRequire;
}

/**
 * Initializes the CasperJS Command Line Interface.
 */
function initCasperCli(casperArgs) {
    /* jshint maxcomplexity:99 */
    var baseTestsPath = fs.pathJoin(phantom.casperPath, 'tests');

    function setScriptBaseDir(scriptName) {
        var dir = fs.dirname(scriptName);
        if (dir === scriptName) {
            dir = '.';
        }
    }
}

```

```

    }

    phantom.casperScriptBaseDir = dir;
}

if (!!casperArgs.options.version) {
    return __terminate(phantom.casperVersion.toString())
} else if (casperArgs.get(0) === "test") {
    phantom.casperScript = fs.absolute(fs.pathJoin(baseTestsPath, 'run.js'));
    phantom.casperTest = true;
    casperArgs.drop("test");
    setScriptBaseDir(casperArgs.get(0));
} else if (casperArgs.get(0) === "selftest") {
    phantom.casperScript = fs.absolute(fs.pathJoin(baseTestsPath, 'run.js'));
    phantom.casperSelfTest = phantom.casperTest = true;
    casperArgs.options.includes = fs.pathJoin(baseTestsPath, 'selftest.js');
    if (casperArgs.args.length <= 1) {
        casperArgs.args.push(fs.pathJoin(baseTestsPath, 'suites'));
    }
    casperArgs.drop("selftest");
    phantom.casperScriptBaseDir = fs.dirname(casperArgs.get(1) ||
fs.dirname(phantom.casperScript));
} else if (casperArgs.args.length === 0 || !!casperArgs.options.help) {
    return printHelp();
}

if (!phantom.casperScript) {
    phantom.casperScript = casperArgs.get(0);
}

```

```
if (phantom.casperScript !== "/dev/stdin" && !fs.isFile(phantom.casperScript)) {
    return __die('Unable to open file: ' + phantom.casperScript);
}

if (!phantom.casperScriptBaseDir) {
    setScriptBaseDir(phantom.casperScript);
}

// filter out the called script name from casper args
casperArgs.drop(phantom.casperScript);
}

// CasperJS version, extracted from package.json - see http://semver.org/
phantom.casperVersion = (function getCasperVersion(path) {
    var parts, patchPart, pkg, pkgFile;
    pkgFile = fs.absolute(fs.pathJoin(path, 'package.json'));
    if (!fs.exists(pkgFile)) {
        throw new CasperError('Cannot find package.json at ' + pkgFile);
    }
    try {
        pkg = JSON.parse(require('fs').read(pkgFile));
    } catch (e) {
        throw new CasperError('Cannot read package file contents: ' + e);
    }
    parts = pkg.version.trim().split(".");
    if (parts.length < 3) {
```

```

        throw new CasperError("Invalid version number");
    }
    patchPart = parts[2].split('-');
    return {
        major: ~~parts[0] || 0,
        minor: ~~parts[1] || 0,
        patch: ~~patchPart[0] || 0,
        ident: patchPart[1] || "",
        toString: function toString() {
            var version = [this.major, this.minor, this.patch].join('.');
            if (this.ident) {
                version = [version, this.ident].join('-');
            }
            return version;
        }
    };
})(phantom.casperPath);

if ("paths" in global.require) {
    // declare a dummy patchRequire function
    global.patchRequire = function(req) {return req;};

    require.paths.push(fs.pathJoin(phantom.casperPath, 'modules'));
    require.paths.push(fs.workingDirectory);
} else {
    global.__require = require;
    global.patchRequire = patchRequire; // must be called in every casperjs module as of 1.1

```

```
    global.require = patchRequire(global.require);
}

if ("slimer" in global) {
    require.globals.patchRequire = global.patchRequire;
    require.globals.CasperError = CasperError;
    phantom.casperEngine = "slimerjs";
} else {
    phantom.casperEngine = "phantomjs";
}

// casper cli args
phantom.casperArgs = require('cli').parse(phantomArgs);

if (true === phantom.casperArgs.get('cli')) {
    initCasperCli(phantom.casperArgs);
}

if ("paths" in global.require) {
    if ((phantom.casperScriptBaseDir || "").indexOf(fs.workingDirectory) === 0) {
        require.paths.push(phantom.casperScriptBaseDir);
    } else {
        require.paths.push(fs.pathJoin(fs.workingDirectory, phantom.casperScriptBaseDir));
    }
    require.paths.push(fs.pathJoin(require.paths[require.paths.length-1], 'node_modules'));
}
```

```
// casper loading status flag

phantom.casperLoaded = true;

// passed casperjs script execution

if (phantom.casperScript && !phantom.injectJs(phantom.casperScript)) {
    return __die('Unable to load script ' + phantom.casperScript + '; check file syntax');
}

})(this, phantom);
```