* [Welcome to CodeIgniter](http://docs.google.com/general/welcome.html)
* [Installation Instructions](http://docs.google.com/installation/index.html)
  + [Downloading CodeIgniter](http://docs.google.com/installation/downloads.html)
  + [Installation Instructions](http://docs.google.com/installation/index.html)
  + [Upgrading From a Previous Version](http://docs.google.com/installation/upgrading.html)
  + [Troubleshooting](http://docs.google.com/installation/troubleshooting.html)
* [CodeIgniter Overview](http://docs.google.com/overview/index.html)
  + [Getting Started](http://docs.google.com/overview/getting_started.html)
  + [CodeIgniter at a Glance](http://docs.google.com/overview/at_a_glance.html)
  + [Supported Features](http://docs.google.com/overview/features.html)
  + [Application Flow Chart](http://docs.google.com/overview/appflow.html)
  + [Model-View-Controller](http://docs.google.com/overview/mvc.html)
  + [Architectural Goals](http://docs.google.com/overview/goals.html)
* [Tutorial](http://docs.google.com/tutorial/index.html)
  + [Static pages](http://docs.google.com/tutorial/static_pages.html)
  + [News section](http://docs.google.com/tutorial/news_section.html)
  + [Create news items](http://docs.google.com/tutorial/create_news_items.html)
  + [Conclusion](http://docs.google.com/tutorial/conclusion.html)
* [Contributing to CodeIgniter](http://docs.google.com/contributing/index.html)
  + [Writing CodeIgniter Documentation](http://docs.google.com/documentation/index.html)
  + [Developer’s Certificate of Origin 1.1](http://docs.google.com/DCO.html)
* [General Topics](http://docs.google.com/general/index.html)
  + [CodeIgniter URLs](http://docs.google.com/general/urls.html)
  + [Controllers](http://docs.google.com/general/controllers.html)
  + [Reserved Names](http://docs.google.com/general/reserved_names.html)
  + [Views](http://docs.google.com/general/views.html)
  + [Models](http://docs.google.com/general/models.html)
  + [Helpers](http://docs.google.com/general/helpers.html)
  + [Using CodeIgniter Libraries](http://docs.google.com/general/libraries.html)
  + [Creating Libraries](http://docs.google.com/general/creating_libraries.html)
  + [Using CodeIgniter Drivers](http://docs.google.com/general/drivers.html)
  + [Creating Drivers](http://docs.google.com/general/creating_drivers.html)
  + [Creating Core System Classes](http://docs.google.com/general/core_classes.html)
  + [Creating Ancillary Classes](http://docs.google.com/general/ancillary_classes.html)
  + [Hooks - Extending the Framework Core](http://docs.google.com/general/hooks.html)
  + [Auto-loading Resources](http://docs.google.com/general/autoloader.html)
  + [Common Functions](http://docs.google.com/general/common_functions.html)
  + [Compatibility Functions](http://docs.google.com/general/compatibility_functions.html)
  + [URI Routing](http://docs.google.com/general/routing.html)
  + [Error Handling](http://docs.google.com/general/errors.html)
  + [Caching](http://docs.google.com/general/caching.html)
  + [Profiling Your Application](http://docs.google.com/general/profiling.html)
  + [Running via the CLI](http://docs.google.com/general/cli.html)
  + [Managing your Applications](http://docs.google.com/general/managing_apps.html)
  + [Handling Multiple Environments](http://docs.google.com/general/environments.html)
  + [Alternate PHP Syntax for View Files](http://docs.google.com/general/alternative_php.html)
  + [Security](http://docs.google.com/general/security.html)
  + [PHP Style Guide](http://docs.google.com/general/styleguide.html)
* [Libraries](http://docs.google.com/index.html)
  + [Benchmarking Class](http://docs.google.com/benchmark.html)
  + [Caching Driver](#gjdgxs)
  + [Calendaring Class](http://docs.google.com/calendar.html)
  + [Shopping Cart Class](http://docs.google.com/cart.html)
  + [Config Class](http://docs.google.com/config.html)
  + [Email Class](http://docs.google.com/email.html)
  + [Encrypt Class](http://docs.google.com/encrypt.html)
  + [Encryption Library](http://docs.google.com/encryption.html)
  + [File Uploading Class](http://docs.google.com/file_uploading.html)
  + [Form Validation](http://docs.google.com/form_validation.html)
  + [FTP Class](http://docs.google.com/ftp.html)
  + [Image Manipulation Class](http://docs.google.com/image_lib.html)
  + [Input Class](http://docs.google.com/input.html)
  + [Javascript Class](http://docs.google.com/javascript.html)
  + [Language Class](http://docs.google.com/language.html)
  + [Loader Class](http://docs.google.com/loader.html)
  + [Migrations Class](http://docs.google.com/migration.html)
  + [Output Class](http://docs.google.com/output.html)
  + [Pagination Class](http://docs.google.com/pagination.html)
  + [Template Parser Class](http://docs.google.com/parser.html)
  + [Security Class](http://docs.google.com/security.html)
  + [Session Library](http://docs.google.com/sessions.html)
  + [HTML Table Class](http://docs.google.com/table.html)
  + [Trackback Class](http://docs.google.com/trackback.html)
  + [Typography Class](http://docs.google.com/typography.html)
  + [Unit Testing Class](http://docs.google.com/unit_testing.html)
  + [URI Class](http://docs.google.com/uri.html)
  + [User Agent Class](http://docs.google.com/user_agent.html)
  + [XML-RPC and XML-RPC Server Classes](http://docs.google.com/xmlrpc.html)
  + [Zip Encoding Class](http://docs.google.com/zip.html)
* [Database Reference](http://docs.google.com/database/index.html)
  + [Quick Start: Usage Examples](http://docs.google.com/database/examples.html)
  + [Database Configuration](http://docs.google.com/database/configuration.html)
  + [Connecting to a Database](http://docs.google.com/database/connecting.html)
  + [Running Queries](http://docs.google.com/database/queries.html)
  + [Generating Query Results](http://docs.google.com/database/results.html)
  + [Query Helper Functions](http://docs.google.com/database/helpers.html)
  + [Query Builder Class](http://docs.google.com/database/query_builder.html)
  + [Transactions](http://docs.google.com/database/transactions.html)
  + [Getting MetaData](http://docs.google.com/database/metadata.html)
  + [Custom Function Calls](http://docs.google.com/database/call_function.html)
  + [Query Caching](http://docs.google.com/database/caching.html)
  + [Database Manipulation with Database Forge](http://docs.google.com/database/forge.html)
  + [Database Utilities Class](http://docs.google.com/database/utilities.html)
  + [Database Driver Reference](http://docs.google.com/database/db_driver_reference.html)
* [Helpers](http://docs.google.com/helpers/index.html)
  + [Array Helper](http://docs.google.com/helpers/array_helper.html)
  + [CAPTCHA Helper](http://docs.google.com/helpers/captcha_helper.html)
  + [Cookie Helper](http://docs.google.com/helpers/cookie_helper.html)
  + [Date Helper](http://docs.google.com/helpers/date_helper.html)
  + [Directory Helper](http://docs.google.com/helpers/directory_helper.html)
  + [Download Helper](http://docs.google.com/helpers/download_helper.html)
  + [Email Helper](http://docs.google.com/helpers/email_helper.html)
  + [File Helper](http://docs.google.com/helpers/file_helper.html)
  + [Form Helper](http://docs.google.com/helpers/form_helper.html)
  + [HTML Helper](http://docs.google.com/helpers/html_helper.html)
  + [Inflector Helper](http://docs.google.com/helpers/inflector_helper.html)
  + [Language Helper](http://docs.google.com/helpers/language_helper.html)
  + [Number Helper](http://docs.google.com/helpers/number_helper.html)
  + [Path Helper](http://docs.google.com/helpers/path_helper.html)
  + [Security Helper](http://docs.google.com/helpers/security_helper.html)
  + [Smiley Helper](http://docs.google.com/helpers/smiley_helper.html)
  + [String Helper](http://docs.google.com/helpers/string_helper.html)
  + [Text Helper](http://docs.google.com/helpers/text_helper.html)
  + [Typography Helper](http://docs.google.com/helpers/typography_helper.html)
  + [URL Helper](http://docs.google.com/helpers/url_helper.html)
  + [XML Helper](http://docs.google.com/helpers/xml_helper.html)

Toggle Table of Contents

[CodeIgniter](http://docs.google.com/index.html)

* [Welcome to CodeIgniter](http://docs.google.com/general/welcome.html)
* [Installation Instructions](http://docs.google.com/installation/index.html)
  + [Downloading CodeIgniter](http://docs.google.com/installation/downloads.html)
  + [Installation Instructions](http://docs.google.com/installation/index.html)
  + [Upgrading From a Previous Version](http://docs.google.com/installation/upgrading.html)
  + [Troubleshooting](http://docs.google.com/installation/troubleshooting.html)
* [CodeIgniter Overview](http://docs.google.com/overview/index.html)
  + [Getting Started](http://docs.google.com/overview/getting_started.html)
  + [CodeIgniter at a Glance](http://docs.google.com/overview/at_a_glance.html)
  + [Supported Features](http://docs.google.com/overview/features.html)
  + [Application Flow Chart](http://docs.google.com/overview/appflow.html)
  + [Model-View-Controller](http://docs.google.com/overview/mvc.html)
  + [Architectural Goals](http://docs.google.com/overview/goals.html)
* [Tutorial](http://docs.google.com/tutorial/index.html)
  + [Static pages](http://docs.google.com/tutorial/static_pages.html)
  + [News section](http://docs.google.com/tutorial/news_section.html)
  + [Create news items](http://docs.google.com/tutorial/create_news_items.html)
  + [Conclusion](http://docs.google.com/tutorial/conclusion.html)
* [Contributing to CodeIgniter](http://docs.google.com/contributing/index.html)
  + [Writing CodeIgniter Documentation](http://docs.google.com/documentation/index.html)
  + [Developer’s Certificate of Origin 1.1](http://docs.google.com/DCO.html)
* [General Topics](http://docs.google.com/general/index.html)
  + [CodeIgniter URLs](http://docs.google.com/general/urls.html)
  + [Controllers](http://docs.google.com/general/controllers.html)
  + [Reserved Names](http://docs.google.com/general/reserved_names.html)
  + [Views](http://docs.google.com/general/views.html)
  + [Models](http://docs.google.com/general/models.html)
  + [Helpers](http://docs.google.com/general/helpers.html)
  + [Using CodeIgniter Libraries](http://docs.google.com/general/libraries.html)
  + [Creating Libraries](http://docs.google.com/general/creating_libraries.html)
  + [Using CodeIgniter Drivers](http://docs.google.com/general/drivers.html)
  + [Creating Drivers](http://docs.google.com/general/creating_drivers.html)
  + [Creating Core System Classes](http://docs.google.com/general/core_classes.html)
  + [Creating Ancillary Classes](http://docs.google.com/general/ancillary_classes.html)
  + [Hooks - Extending the Framework Core](http://docs.google.com/general/hooks.html)
  + [Auto-loading Resources](http://docs.google.com/general/autoloader.html)
  + [Common Functions](http://docs.google.com/general/common_functions.html)
  + [Compatibility Functions](http://docs.google.com/general/compatibility_functions.html)
  + [URI Routing](http://docs.google.com/general/routing.html)
  + [Error Handling](http://docs.google.com/general/errors.html)
  + [Caching](http://docs.google.com/general/caching.html)
  + [Profiling Your Application](http://docs.google.com/general/profiling.html)
  + [Running via the CLI](http://docs.google.com/general/cli.html)
  + [Managing your Applications](http://docs.google.com/general/managing_apps.html)
  + [Handling Multiple Environments](http://docs.google.com/general/environments.html)
  + [Alternate PHP Syntax for View Files](http://docs.google.com/general/alternative_php.html)
  + [Security](http://docs.google.com/general/security.html)
  + [PHP Style Guide](http://docs.google.com/general/styleguide.html)
* [Libraries](http://docs.google.com/index.html)
  + [Benchmarking Class](http://docs.google.com/benchmark.html)
  + [Caching Driver](#gjdgxs)
  + [Calendaring Class](http://docs.google.com/calendar.html)
  + [Shopping Cart Class](http://docs.google.com/cart.html)
  + [Config Class](http://docs.google.com/config.html)
  + [Email Class](http://docs.google.com/email.html)
  + [Encrypt Class](http://docs.google.com/encrypt.html)
  + [Encryption Library](http://docs.google.com/encryption.html)
  + [File Uploading Class](http://docs.google.com/file_uploading.html)
  + [Form Validation](http://docs.google.com/form_validation.html)
  + [FTP Class](http://docs.google.com/ftp.html)
  + [Image Manipulation Class](http://docs.google.com/image_lib.html)
  + [Input Class](http://docs.google.com/input.html)
  + [Javascript Class](http://docs.google.com/javascript.html)
  + [Language Class](http://docs.google.com/language.html)
  + [Loader Class](http://docs.google.com/loader.html)
  + [Migrations Class](http://docs.google.com/migration.html)
  + [Output Class](http://docs.google.com/output.html)
  + [Pagination Class](http://docs.google.com/pagination.html)
  + [Template Parser Class](http://docs.google.com/parser.html)
  + [Security Class](http://docs.google.com/security.html)
  + [Session Library](http://docs.google.com/sessions.html)
  + [HTML Table Class](http://docs.google.com/table.html)
  + [Trackback Class](http://docs.google.com/trackback.html)
  + [Typography Class](http://docs.google.com/typography.html)
  + [Unit Testing Class](http://docs.google.com/unit_testing.html)
  + [URI Class](http://docs.google.com/uri.html)
  + [User Agent Class](http://docs.google.com/user_agent.html)
  + [XML-RPC and XML-RPC Server Classes](http://docs.google.com/xmlrpc.html)
  + [Zip Encoding Class](http://docs.google.com/zip.html)
* [Database Reference](http://docs.google.com/database/index.html)
  + [Quick Start: Usage Examples](http://docs.google.com/database/examples.html)
  + [Database Configuration](http://docs.google.com/database/configuration.html)
  + [Connecting to a Database](http://docs.google.com/database/connecting.html)
  + [Running Queries](http://docs.google.com/database/queries.html)
  + [Generating Query Results](http://docs.google.com/database/results.html)
  + [Query Helper Functions](http://docs.google.com/database/helpers.html)
  + [Query Builder Class](http://docs.google.com/database/query_builder.html)
  + [Transactions](http://docs.google.com/database/transactions.html)
  + [Getting MetaData](http://docs.google.com/database/metadata.html)
  + [Custom Function Calls](http://docs.google.com/database/call_function.html)
  + [Query Caching](http://docs.google.com/database/caching.html)
  + [Database Manipulation with Database Forge](http://docs.google.com/database/forge.html)
  + [Database Utilities Class](http://docs.google.com/database/utilities.html)
  + [Database Driver Reference](http://docs.google.com/database/db_driver_reference.html)
* [Helpers](http://docs.google.com/helpers/index.html)
  + [Array Helper](http://docs.google.com/helpers/array_helper.html)
  + [CAPTCHA Helper](http://docs.google.com/helpers/captcha_helper.html)
  + [Cookie Helper](http://docs.google.com/helpers/cookie_helper.html)
  + [Date Helper](http://docs.google.com/helpers/date_helper.html)
  + [Directory Helper](http://docs.google.com/helpers/directory_helper.html)
  + [Download Helper](http://docs.google.com/helpers/download_helper.html)
  + [Email Helper](http://docs.google.com/helpers/email_helper.html)
  + [File Helper](http://docs.google.com/helpers/file_helper.html)
  + [Form Helper](http://docs.google.com/helpers/form_helper.html)
  + [HTML Helper](http://docs.google.com/helpers/html_helper.html)
  + [Inflector Helper](http://docs.google.com/helpers/inflector_helper.html)
  + [Language Helper](http://docs.google.com/helpers/language_helper.html)
  + [Number Helper](http://docs.google.com/helpers/number_helper.html)
  + [Path Helper](http://docs.google.com/helpers/path_helper.html)
  + [Security Helper](http://docs.google.com/helpers/security_helper.html)
  + [Smiley Helper](http://docs.google.com/helpers/smiley_helper.html)
  + [String Helper](http://docs.google.com/helpers/string_helper.html)
  + [Text Helper](http://docs.google.com/helpers/text_helper.html)
  + [Typography Helper](http://docs.google.com/helpers/typography_helper.html)
  + [URL Helper](http://docs.google.com/helpers/url_helper.html)
  + [XML Helper](http://docs.google.com/helpers/xml_helper.html)

[CodeIgniter](http://docs.google.com/index.html)

* [Docs](http://docs.google.com/index.html) »
* [Libraries](http://docs.google.com/index.html) »
* Caching Driver

classic layout

Caching Driver[**¶**](#30j0zll)

CodeIgniter features wrappers around some of the most popular forms of fast and dynamic caching. All but file-based caching require specific server requirements, and a Fatal Exception will be thrown if server requirements are not met.

* [Example Usage](#1fob9te)
* [Class Reference](#3znysh7)
* [Drivers](#2et92p0)
  + [Alternative PHP Cache (APC) Caching](#tyjcwt)
  + [File-based Caching](#3dy6vkm)
  + [Memcached Caching](#1t3h5sf)
  + [WinCache Caching](#4d34og8)
  + [Redis Caching](#2s8eyo1)
  + [Dummy Cache](#17dp8vu)

[**Example Usage**](#3rdcrjn)[**¶**](#1fob9te)

The following example will load the cache driver, specify [APC](#tyjcwt) as the driver to use, and fall back to file-based caching if APC is not available in the hosting environment.

$this->load->driver('cache', array('adapter' => 'apc', 'backup' => 'file'));  
  
if ( ! $foo = $this->cache->get('foo'))  
{  
 echo 'Saving to the cache!<br />';  
 $foo = 'foobarbaz!';  
  
 // Save into the cache for 5 minutes  
 $this->cache->save('foo', $foo, 300);  
}  
  
echo $foo;

You can also prefix cache item names via the **key\_prefix** setting, which is useful to avoid collisions when you’re running multiple applications on the same environment.

$this->load->driver('cache',  
 array('adapter' => 'apc', 'backup' => 'file', 'key\_prefix' => 'my\_')  
);  
  
$this->cache->get('foo'); // Will get the cache entry named 'my\_foo'

[**Class Reference**](#26in1rg)[**¶**](#3znysh7)

*class* CI\_Cache[¶](#lnxbz9) is\_supported(*$driver*)[¶](#35nkun2)

|  |  |
| --- | --- |
| Parameters: | * **$driver** (*string*) – the name of the caching driver |
| Returns: | TRUE if supported, FALSE if not |
| Return type: | bool |

This method is automatically called when accessing drivers via $this->cache->get(). However, if the individual drivers are used, make sure to call this method to ensure the driver is supported in the hosting environment.

if ($this->cache->apc->is\_supported())  
{  
 if ($data = $this->cache->apc->get('my\_cache'))  
 {  
 // do things.  
 }  
}

get(*$id*)[¶](#1ksv4uv)

|  |  |
| --- | --- |
| Parameters: | * **$id** (*string*) – Cache item name |
| Returns: | Item value or FALSE if not found |
| Return type: | mixed |

This method will attempt to fetch an item from the cache store. If the item does not exist, the method will return FALSE.

$foo = $this->cache->get('my\_cached\_item');

save(*$id*, *$data*[, *$ttl = 60*[, *$raw = FALSE*]])[¶](#44sinio)

|  |  |
| --- | --- |
| Parameters: | * **$id** (*string*) – Cache item name * **$data** (*mixed*) – the data to save * **$ttl** (*int*) – Time To Live, in seconds (default 60) * **$raw** (*bool*) – Whether to store the raw value |
| Returns: | TRUE on success, FALSE on failure |
| Return type: | string |

This method will save an item to the cache store. If saving fails, the method will return FALSE.

$this->cache->save('cache\_item\_id', 'data\_to\_cache');

Note

The $raw parameter is only utilized by APC and Memcache, in order to allow usage of increment() and decrement().

delete(*$id*)[¶](#2jxsxqh)

|  |  |
| --- | --- |
| Parameters: | * **$id** (*string*) – name of cached item |
| Returns: | TRUE on success, FALSE on failure |
| Return type: | bool |

This method will delete a specific item from the cache store. If item deletion fails, the method will return FALSE.

$this->cache->delete('cache\_item\_id');

increment(*$id*[, *$offset = 1*])[¶](#z337ya)

|  |  |
| --- | --- |
| Parameters: | * **$id** (*string*) – Cache ID * **$offset** (*int*) – Step/value to add |
| Returns: | New value on success, FALSE on failure |
| Return type: | mixed |

Performs atomic incrementation of a raw stored value.

// 'iterator' has a value of 2  
  
$this->cache->increment('iterator'); // 'iterator' is now 3  
  
$this->cache->increment('iterator', 3); // 'iterator' is now 6

decrement(*$id*[, *$offset = 1*])[¶](#3j2qqm3)

|  |  |
| --- | --- |
| Parameters: | * **$id** (*string*) – Cache ID * **$offset** (*int*) – Step/value to reduce by |
| Returns: | New value on success, FALSE on failure |
| Return type: | mixed |

Performs atomic decrementation of a raw stored value.

// 'iterator' has a value of 6  
  
$this->cache->decrement('iterator'); // 'iterator' is now 5  
  
$this->cache->decrement('iterator', 2); // 'iterator' is now 3

clean()[¶](#1y810tw)

|  |  |
| --- | --- |
| Returns: | TRUE on success, FALSE on failure |
| Return type: | bool |

This method will ‘clean’ the entire cache. If the deletion of the cache files fails, the method will return FALSE.

$this->cache->clean();

cache\_info()[¶](#4i7ojhp)

|  |  |
| --- | --- |
| Returns: | Information on the entire cache database |
| Return type: | mixed |

This method will return information on the entire cache.

var\_dump($this->cache->cache\_info());

Note

The information returned and the structure of the data is dependent on which adapter is being used.

get\_metadata(*$id*)[¶](#2xcytpi)

|  |  |
| --- | --- |
| Parameters: | * **$id** (*string*) – Cache item name |
| Returns: | Metadata for the cached item |
| Return type: | mixed |

This method will return detailed information on a specific item in the cache.

var\_dump($this->cache->get\_metadata('my\_cached\_item'));

Note

The information returned and the structure of the data is dependent on which adapter is being used.

[**Drivers**](#1ci93xb)[**¶**](#2et92p0)

[**Alternative PHP Cache (APC) Caching**](#3whwml4)[**¶**](#tyjcwt)

All of the methods listed above can be accessed without passing a specific adapter to the driver loader as follows:

$this->load->driver('cache');  
$this->cache->apc->save('foo', 'bar', 10);

For more information on APC, please see <http://php.net/apc>.

[**File-based Caching**](#2bn6wsx)[**¶**](#3dy6vkm)

Unlike caching from the Output Class, the driver file-based caching allows for pieces of view files to be cached. Use this with care, and make sure to benchmark your application, as a point can come where disk I/O will negate positive gains by caching.

All of the methods listed above can be accessed without passing a specific adapter to the driver loader as follows:

$this->load->driver('cache');  
$this->cache->file->save('foo', 'bar', 10);

[**Memcached Caching**](#qsh70q)[**¶**](#1t3h5sf)

Multiple Memcached servers can be specified in the memcached.php configuration file, located in the \_application/config/\* directory.

All of the methods listed above can be accessed without passing a specific adapter to the driver loader as follows:

$this->load->driver('cache');  
$this->cache->memcached->save('foo', 'bar', 10);

For more information on Memcached, please see <http://php.net/memcached>.

[**WinCache Caching**](#3as4poj)[**¶**](#4d34og8)

Under Windows, you can also utilize the WinCache driver.

All of the methods listed above can be accessed without passing a specific adapter to the driver loader as follows:

$this->load->driver('cache');  
$this->cache->wincache->save('foo', 'bar', 10);

For more information on WinCache, please see <http://php.net/wincache>.

[**Redis Caching**](#1pxezwc)[**¶**](#2s8eyo1)

Redis is an in-memory key-value store which can operate in LRU cache mode. To use it, you need [Redis server and phpredis PHP extension](https://github.com/phpredis/phpredis).

Config options to connect to redis server must be stored in the application/config/redis.php file. Available options are:

$config['socket\_type'] = 'tcp'; //`tcp` or `unix`  
$config['socket'] = '/var/run/redis.sock'; // in case of `unix` socket type  
$config['host'] = '127.0.0.1';  
$config['password'] = NULL;  
$config['port'] = 6379;  
$config['timeout'] = 0;

All of the methods listed above can be accessed without passing a specific adapter to the driver loader as follows:

$this->load->driver('cache');  
$this->cache->redis->save('foo', 'bar', 10);

For more information on Redis, please see <http://redis.io>.

[**Dummy Cache**](#49x2ik5)[**¶**](#17dp8vu)

This is a caching backend that will always ‘miss.’ It stores no data, but lets you keep your caching code in place in environments that don’t support your chosen cache.

[Next](http://docs.google.com/calendar.html)   [Previous](http://docs.google.com/benchmark.html)

© Copyright 2014 - 2018, British Columbia Institute of Technology. Last updated on Jun 12, 2018.

Built with [Sphinx](http://sphinx-doc.org/) using a [theme](https://github.com/snide/sphinx_rtd_theme) provided by [Read the Docs](https://readthedocs.org).