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* Caching Driver

classic layout

Caching Driver[**¶**](#gjdgxs)

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.

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[**Example Usage**](#17dp8vu)[**¶**](#30j0zll)

The following example will load the cache driver, specify [APC](#2et92p0) 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**](#3rdcrjn)[**¶**](#1fob9te)

*class* CI\_Cache[¶](#26in1rg) is\_supported(*$driver*)[¶](#lnxbz9)

| 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*)[¶](#35nkun2)

| 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*]])[¶](#1ksv4uv)

| 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*)[¶](#44sinio)

| 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*])[¶](#2jxsxqh)

| 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*])[¶](#z337ya)

| 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()[¶](#3j2qqm3)

| 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()[¶](#1y810tw)

| 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*)[¶](#4i7ojhp)

| 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**](#2xcytpi)[**¶**](#3znysh7)

[**Alternative PHP Cache (APC) Caching**](#1ci93xb)[**¶**](#2et92p0)

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**](#3whwml4)[**¶**](#tyjcwt)

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**](#2bn6wsx)[**¶**](#3dy6vkm)

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**](#qsh70q)[**¶**](#1t3h5sf)

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**](#3as4poj)[**¶**](#4d34og8)

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**](#1pxezwc)[**¶**](#2s8eyo1)

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)

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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).