

Core Pack

F3::allow(string **set**);

Allows functions defined in PHP extensions to be used in templates. The default value for **set** is 'standard|date|pcr'. Methods in user-defined classes may be added to the **set** by specifying the class name.

F3::call(mixed **processes**);

Convenience method for executing sandboxed **processes**. Used for programmatically calling an anonymous or named function, a single or daisy-chained string of named functions/imported files similar to the **F3::route** and **F3::input** handlers.

F3::clear(string **variable**);

Clear global **variable** and remove from symbol table.

F3::exists(string **variable**);

Return TRUE if global **variable** has been assigned a value, or FALSE if **variable** has not been defined.

F3::get(string **variable**);

Return value of global **variable**.

F3::http404(void);

Trigger an HTTP 404 error.

F3::httpstatus(integer **code**);

Send HTTP status header. Return text equivalent of status code.

F3::input(string **field**, mixed **handler**, [string **tags**]);

Assign **handler** to HTML form **field** for validating/manipulating user input. **handler** may be an anonymous or named function, a single or daisy-chained string of named functions/imported files similar to the **F3::route** command. All HTML/PHP tags are stripped if **tags** is not specified.

F3::map(string **uri**, string **class**);

Assign **class** as route handler for incoming **uri**. Class should contain methods that correspond to an incoming HTTP request: **get()**, **post()**, **put()**, **head()** or **delete()**.

F3::profile(void);

Returns an array of runtime performance analysis data.

F3::reroute(string **location**);

Reroute to specified URI **location**.

F3::resolve(string **expression**);

Evaluate **expression** containing template tokens.

F3::route(string **pattern**, mixed **handler**, [integer **cache_timeout**]);

Assign **handler** to URI **pattern** consisting of an HTTP GET/HEAD/POST/PUT/DELETE command, a space and a URI. If **cache_timeout** is specified, Fat-Free retrieves previously-generated output associated with the URL from cache if timer has not expired. Otherwise, output is refreshed by calling **handler**. Output is not cached if **cache_timeout** is not specified.

F3::run(void);

Run the application. Process routes based on incoming URI.

F3::scrub(mixed **value**, [string **tags**]);

Remove all HTML tags to protect against XSS/code injection attacks. Enumerated **tags**, if present, will be preserved. If **value** is an array, HTML tags in all string elements will be scrubbed.

F3::send(string **file**);

Transmit **file** for downloading by HTTP client.

F3::serve(string **template**, [boolean **is_html**], [string **path**]);

Returns a string representing a rendered HTML/XML template. If **is_html** is TRUE (default), template is interpreted as a regular HTML/text file. If FALSE, rendering follows strict XML parsing rules. Specify **path** if **template** is not in the **GUI** folder.

F3::set(string **variable**, mixed **value**);

Bind **value** to global **variable**.

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Database Pack

F3::qq(mixed **arg1**, mixed **arg2**, ... mixed **argN**);

Enclose arguments (all string elements if array is passed) in double-quotes and add commas if multiple arguments are present.

F3::sql(mixed **statement**, [string **db_identifier**]);

Execute SQL statement. **statement** can be a single string or an array of strings. If an array is specified, it is treated as a single SQL transaction - commit and rollback are dependent on the successful completion of the transaction. If **cache_timeout** is specified, previously-generated output associated with the SQL statement is retrieved from cache (if timer has not expired). Default **db_identifier** is the DB global variable.

Axon ORM

new Axon(string **table**, [string **db_identifier**]);

Instantiate Axon object and map to specified **table**. Default **cache_timeout** is 60 seconds. Adjust if necessary. Default **db_identifier** is DB.

copyfrom(string **name**);

Hydrate Axon with elements from framework array variable, keys of which must be identical to field names in the record.

copyto(string **name**);

Populate framework array variable with Axon properties, keys of which will have names identical to fields in the record.

def(string **name**, string **expression**);

Create a virtual field and assign SQL **expression** for use in queries.

dry(void);

Return TRUE if Axon is devoid of values in its properties.

erase(void);

Delete record and reset Axon.

find([string **criteria**], [string **order**], [string **limit**], [integer **cache_timeout**]);

Return an array of database records matching specified **criteria**. If **criteria** is omitted or NULL, all records in table are returned. Result is sorted according to the sequence of fields specified in **order** and short-listed by **limit**.

found(string **criteria**, [integer **cache_timeout**]);

Return number of records that match specified **criteria**.

isdef(string **name**);

Return TRUE if specified virtual field exists, FALSE otherwise.

load(string **criteria**, [string **order**], [integer **offset**]);

Retrieve first record that satisfies **criteria**, sort according to comma-separated list of fields specified in **order**, and starting at the relative **offset**.

lookup(string **fields**, [string **criteria**], [string **grouping**], [string **order**], [string **limit**], [integer **cache_timeout**]);

Similar to Axon **find** method but provides fine-grained control over specific fields and grouping of results. The **select** method is an alias of the **lookup** method.

save(void);

Insert or update record based on contents of Axon properties.

skip([integer **offset**]);

Retrieve the record at the **offset** relative to current position following the same **criteria** used to hydrate the Axon. Positive offset moves forward, negative backward. Zero re-syncs Axon. Triggers error if skipping beyond bounds of hydration criteria.

sync(string **table**, [string **db_identifier**]);

Synchronize new Axon and table structure. Default **cache_timeout** is 60 seconds. Called automatically when instantiating new Axon. Default **db_identifier** is DB.

undef(string **name**);

Destroy the specified virtual field.

Axon Event Listeners

beforeasync(void); aftersync(void);

Invoked before/after Axon **sync** method is executed.

beforeload(void); afterload(void);

Invoked before/after Axon **load** method is executed.

beforesave(void); aftersave(void);

Invoked before/after Axon **save** method is executed.

beforeerase(void); aftererase(void);

Invoked before/after Axon **erase** method is executed.

Expansion Pack

F3::captcha(integer **width**, integer **height**, integer **length**, [string **font**]);
Generate CAPTCHA image of specified **width** and **height** (in pixels). **length** represents the number of hex characters to generate. The default TrueType **font** is cube.ttf. The string equivalent of the CAPTCHA image is stored in `$_SESSION['captcha']` and the framework variable `SESSION['captcha']`.

F3::expect(mixed **condition**, string **true_text**, string **false_text**);
Test condition and append result to `TEST` global variable.

F3::fakeimage(integer **width**, integer **height**, string **bgcolor**);
Generate a blank image for use as a placeholder.

F3::http(string **pattern**, [string **content**], [array **headers**], [boolean **follow**]);
Send HTTP/S request to another host; forward **headers** received and return host's response. **pattern** consists of an HTTP GET/HEAD/POST/PUT/DELETE command, a space and an absolute URI. **pattern** should include port number after host name if not using a standard TCP port (80 for HTTP, 443 for HTTPS). **content** is optional URI query string. Respect HTTP 30x redirects if **follow** is TRUE (default).

F3::identicon(string **hash**, [integer **size**]);
Generate icon from a hex-string **hash** value. Default **size** is 64 pixels.

F3::minify(string **path**, array **filenames**);
Compress specified files by removing all whitespaces and comments, then send as a single block of CSS or Javascript.

F3::mock(string **pattern**);
Simulate an incoming HTTP request. Refer to **F3::route** for **pattern** syntax.

F3::sitemap(string **root_url**);
Generate XML sitemap starting at specified **url**.

F3::thumb(string **filename**, integer **width**, integer **height**);
Generate thumbnail image of specified maximum **width** and maximum **height**. Resulting image has the same aspect ratio (proportions) as original.

F3::transpose(string **variable**, boolean **replace**);
Rotate a two-dimensional framework array variable, so rows become columns, and vice versa. Content of variable is replaced if second argument is TRUE (default).

F3::validurl(string **url**);
Return TRUE if **url** is valid, FALSE otherwise.

Template Tokens and Directives

@token
Replace **token** with global **variable** of the same name.

{ scalar expression }
Evaluate **expression** and replace with scalar result. **expression** may include template tokens, constants, operators (unary, arithmetic, ternary and relational), parentheses, data type converters, and PHP functions (see **F3::allow** for restrictions).

<F3:include href="string filename"/>
Get contents of **filename** and insert at current position in template.

<F3:exclude> text-block </F3:exclude>
Remove **text-block** at runtime.

<F3:check if="{ boolean condition }">
 <F3:true> true-block </F3:true>
 <F3:false> false-block </F3:false>
</F3:check>

Evaluate **condition**. If TRUE, **true-block** replaces the **F3:check** block. Otherwise, **false-block** is used.

<F3:repeat
 [key="{ scalar @key" }] index="{ mixed @index }"
 group="{ array @group }">
 text-block
</F3:repeat>

Repeat **text-block** as many times as there are elements in the array variable **group**. Variables **key** and **index** may be used within **text-block** to represent the key and value of current array iteration element, respectively.

Framework Variables

string **AUTOLOAD**
Location of user-defined PHP classes that the framework will autoload at run-time. If **onload** method is defined in an autoloader class, it is automatically executed. Default is **autoload/** folder under the Web root.

string **CACHE**
Location of the framework cache. Default is **cache/** folder under the Web root.

array **COOKIE**, array **GET**, array **POST**, array **REQUEST**, array **SESSION**, array **FILES**
Mirrors PHP's global variables of the same names for direct use in templates.

array **DB**
The default database identifier for several SQL objects. Assign Data Source Name (DSN) to **DB.dsn** to establish a database connection, Set the values of **DB.user**, **DB.password**, **DB.options** and **DB.attributes** if needed. **DB.pdo** contains PDO instance representing the connection. Result of the last query is saved in **DB.result**. Use **DB.query** for fine-grain control. This is the equivalent of PHP's PDOStatement.

boolean **DEBUG**
Toggle for including framework internals in stack trace. Default is FALSE.

string **DNSBL**
Public blacklist services for looking up IP addresses of spammers.

string **E404**, string **E500**
Contains file names of custom HTTP 404 and 500 error templates. File should be in the path pointed to by **GUI**.

string **ENCODING**
Character set used for document encoding. Default value is **UTF-8**.

array **ERROR**
Holds a profile of the last HTTP error that occurred. **ERROR.code** is the HTTP error number (404 or 500). **ERROR.title** contains a brief description of the error. **ERROR.text** provides greater detail.

string **FONTS**
Path to fonts files used by **F3::captcha**. Default is the Web root.

array **FUNCS**
Contains a list of all functions permitted in templates.

string **GUI**
Location of graphical user interface files used by **F3::serve** and **F3::minify**. May be an absolute path or relative to the Web root folder. Default is the Web root.

string **IMPORTS**
Location of imported files used in the **F3::route**, **F3::input** and **F3::call** methods. May be an absolute path or relative to the Web root folder. Default is the Web root.

integer **MAXSIZE**
Maximum file upload size in bytes.

array **PARAMS**
Holds the captured values of tokens defined in a URI pattern. Use **PARAMS.0** to get the captured URL relative to the Web root.

boolean **QUIET**
Toggle for suppressing output (useful for unit testing).

boolean **RELEASE**
Indicates release or development version of application. If **FALSE** (default), stack trace appears in both HTML error page and server's error log. If **TRUE**, stack trace in HTML output is suppressed.

array **RESPONSE**
The body of the last HTTP response (useful for unit testing).

array **ROUTES**
Contains all the routes and handlers defined by the application.

string **SPAM**
The URI for redirecting a user blacklisted in a **DNSBL**.

string **SYNC**
Cache timeout for Axon **sync** method. Default value is 60 seconds.

array **TEST**
Array containing the results of each **F3::expect** statement.

integer **THROTTLE**
The minimum number of milliseconds to serve a Web page.

float **TIME**
Framework start time (floating point Unix timestamp).