

Instantiation

Methods

Audit

The Audit class is a data validator.

Namespace: \

File location: lib/audit.php

Instantiation

Return class instance

```
$audit = \Audit::instance();
```

The Audit class uses the Prefab (prefab-registry) factory wrapper, so you can grab the same instance of that class at any point of your code.

Methods

url

Return TRUE if string is a valid URL

```
bool url ( string $str )
```

This function allows you to check if a given string is a valid URL.

Example:

```
$audit->url('http://fatfreeframework.com'); // returns TRUE
```

email

Return TRUE if string is a valid e-mail address; Check DNS MX records if specified

```
bool email ( string $str [ , boolean $mx = TRUE ] )
```

This function allows you to check if a given string is a valid e-mail address.

If `$mx` is set to `TRUE` and the e-mail address is valid, this function will check the DNS MX records as well.

Example:

```
$audit->email('example@example.com', FALSE); // returns TRUE  
$audit->email('example@example.com', TRUE); // returns FALSE
```

ipv4

Return TRUE if string is a valid IPV4 address

```
bool ipv4 ( string $addr )
```

This function allows you to check if a given IP is a valid IPV4 address.

Example:

```
$audit->ipv4('178.7.35.202'); // returns TRUE
```

ipv6

Return TRUE if string is a valid IPV6 address

```
bool ipv6 ( string $addr )
```

This function allows you to check if a given IP is a valid IPV6 address.

Example:

```
$audit->ipv6('2001:db8::1428:57ab'); // returns TRUE
```

isprivate

Return TRUE if IP address is within private range

```
bool isprivate ( string $addr )
```

This function allows you to check if a given IP address is within a private range of addresses.

Example:

```
$audit->isprivate('192.168.0.1'); // returns TRUE  
$audit->isprivate('178.7.35.202'); // returns FALSE
```

isreserved

Return TRUE if IP address is within reserved range

```
bool isreserved ( string $addr )
```

This function allows you to check if a given IP address is within a reserved range of addresses.

Example:

```
$audit->isreserved('127.0.0.1'); // returns TRUE  
$audit->isreserved('178.7.35.202'); // returns FALSE
```

ispublic

Return TRUE if IP address is neither private nor reserved

```
bool ispublic ( string $addr )
```

This function allows you to check if a given IP address is neither private nor reserved.

Example:

```
$audit->ispublic('192.168.0.1'); // returns FALSE  
$audit->ispublic('178.7.35.202'); // return TRUE
```

isdesktop

Return TRUE if the given user agent is a desktop browser

```
bool isdesktop ( [ string $agent = NULL ] )
```

This function allows you to check if a given user agent is a desktop browser.

If no user agent is given, the check is performed against the current user-agent: AGENT (quick-reference#AGENT).

Example:

```
$audit->isdesktop(); // returns TRUE if the current user-agent is a desktop browser  
  
$audit->isdesktop('Mozilla/5.0 (Windows NT 6.1; WOW64; rv:31.0) etc..'); // returns TRUE
```

ismobile

Return TRUE if the given user agent is a mobile device

```
bool ismobile ( [ string $agent = NULL ] )
```

This function allows you to check if a given user agent is a mobile device.

If no user agent is given, the check is performed against the current user-agent: AGENT (quick-reference#AGENT).

Example:

```
$audit->ismobile(); // returns TRUE if the current user-agent is a mobile device

$audit->ismobile('Mozilla/5.0 (BlackBerry; U; BlackBerry 9900; en) etc..'); // returns TRUE
```

isbot

Return TRUE if the given user agent is a Web bot

If no user agent is given, the check is performed against the current user-agent: AGENT (quick-reference#AGENT).

```
bool isbot ( [ string $agent = NULL ] )
```

This function allows you to check if a given user agent is a Web bot.

Example:

```
$audit->isbot(); // returns TRUE if the current user-agent is a Web bot.

$audit->isbot('Mozilla/5.0 (compatible; Googlebot/2.1 etc..'); // returns TRUE
```

mod10

Return TRUE if specified ID has a valid (Luhn) Mod-10 check digit

```
bool mod10 ( string $id )
```

This function allows you to check if a specified ID has a valid (Luhn (https://en.wikipedia.org/wiki/Luhn_algorithm)) Mod-10 check digit.

Example:

```
$audit->mod10('446667651'); // returns TRUE
$audit->mod10('123123123'); // returns FALSE
```

card

Return credit card type if number is valid

```
string|FALSE card ( string $id )
```

This function allows you to retrieve the type of a credit card if the given number is valid. Returns FALSE otherwise.

Returned values for possible credit card types are: 'American Express', 'Diners Club', 'Discover', 'JCB', 'MasterCard' & 'Visa'

Example:

```
echo $audit->card('343760667618602'); // displays 'American Express'
```

entropy

Return entropy estimate of a password (NIST 800-63)

```
int|float entropy ( string $str )
```

This function allows you to retrieve the entropy estimate of a given password as per NIST Special Publication 800-63 (https://en.wikipedia.org/wiki/Password_strength#NIST_Special_Publication_800-63).

Example:

```
$audit->entropy('sex'); // returns 8  
$audit->entropy('secret'); // returns 14  
$audit->entropy('password'); // returns 18  
$audit->entropy('p4ss_w0rd'); // returns 19.5  
$audit->entropy('dK2#!b846'); // returns 25.5
```