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**Developers**                                                                            ⌄

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| RestResponse Class  ☰

# RestResponse Class

Represents an object used to pass data from an Apex RESTful Web service method to an HTTP response.

## Namespace

System

## Usage

Use the `System.RestResponse` class to pass response data from an Apex RESTful web service method that is defined using one of the REST annotations.

- **RestResponse Constructors**
- **RestResponse Properties**
- **RestResponse Methods**

## RestResponse Constructors

The following are constructors for `RestResponse`.

- **RestResponse()**
  Creates a new instance of the `System.RestResponse` class.

## RestResponse()

Creates a new instance of the `System.RestResponse` class.

### Signature

```
public RestResponse()
```

## RestResponse Properties

The following are properties for `RestResponse`.

> ℹ️ Note
>
> While the `RestResponse` List and Map properties are read-only, their contents are read-write. You can modify them by calling the collection methods directly or you can use of the associated `RestResponse` methods shown in the previous table.

- **responseBody**
  Returns or sets the body of the response.
- **headers**
  Returns the headers to be sent to the response.
- **statusCode**
  Returns or sets the response status code.

```
public Blob responseBody {get; set;}
```

### Property Value

Type: Blob

### Usage

The response is either the serialized form of the method return value or it's the value of the `responseBody` property based on the following rules:

- If the method returns void, then Apex REST returns the response in the `responseBody` property.
- If the method returns a value, then Apex REST serializes the return value as the response. If the return value contains fields with null value, those fields are not serialized in the response.

## headers

Returns the headers to be sent to the response.

### Signature

```
public Map<String, String> headers {get; set;}
```

### Property Value

Type: Map<String, String>

## statusCode

Returns or sets the response status code.

### Signature

```
public Integer statuscode {get; set;}
```

### Property Value

Type: Integer

### Status Codes

The following are valid response status codes. The status code is returned by the `RestResponse.statusCode` property.

> ℹ️ **Note**
>
> If you set the `RestResponse.statusCode` property to a value that's not listed in the table, then an HTTP status of 500 is returned with the error message "Invalid status code for HTTP response: nnn" where nnn is the invalid status code value.

| Status Code | Description |
| --- | --- |
| 200 | OK |
| 201 | CREATED |
| 202 | ACCEPTED |

| 206 | PARTIAL_CONTENT |
| 300 | MULTIPLE_CHOICES |
| 301 | MOVED_PERMANENTLY |
| 302 | FOUND |
| 304 | NOT_MODIFIED |
| 400 | BAD_REQUEST |
| 401 | UNAUTHORIZED |
| 403 | FORBIDDEN |
| 404 | NOT_FOUND |
| 405 | METHOD_NOT_ALLOWED |
| 406 | NOT_ACCEPTABLE |
| 409 | CONFLICT |
| 410 | GONE |
| 412 | PRECONDITION_FAILED |
| 413 | REQUEST_ENTITY_TOO_LARGE |
| 414 | REQUEST_URI_TOO_LARGE |
| 415 | UNSUPPORTED_MEDIA_TYPE |
| 417 | EXPECTATION_FAILED |
| 500 | INTERNAL_SERVER_ERROR |
| 503 | SERVER_UNAVAILABLE |

## RestResponse Methods

The following are instance methods for `RestResponse`.

> ⓘ **Note**
>
> At runtime, you typically don't need to add a header to the `RestResponse` object because it's automatically deserialized into the corresponding properties. The following methods are intended for unit testing Apex REST classes. You can use them to add header or parameter values to the `RestRequest` object without having to recreate the REST method call.

Adds a header to the response header map.

## Signature

```
public Void addHeader(String name, String value)
```

## Parameters

### *name*

Type: String

### *value*

Type: String

## Return Value

Type: Void

## Usage

The following headers aren't allowed:

- cookie
- set-cookie
- set-cookie2
- content-length
- authorization
- Header names that aren't RFC 7230 compliant

If any of these headers are used, an Apex exception is thrown.

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