

[Hummingbird](#) / ResponseGenerator

Protocol

# ResponseGenerator

Object that can generate a Response.

`protocol` ResponseGenerator

## Overview

This is used by Router to convert handler return values into a Response.

## Topics

### Instance Methods

```
func response(from: Request, context: some RequestContext) throws -> Response
```

Generate response based on the request this object came from

**Required** Default implementation provided.

## Relationships

## Inherited By

HTTPResponseError, ResponseCodable, ResponseEncodable

## Conforming Types

EditedResponse, HTTPError, Response

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## See Also

### Encoding/Decoding

`protocol RequestDecoder`

protocol for decoder deserializing from a Request body

`protocol ResponseEncoder`

protocol for encoders generating a Response

`protocol ResponseEncodable`

Protocol for encodable object that can generate a response. The router will encode the response using the encoder stored in `Application.encoder`.

`protocol ResponseCodable`

Protocol for codable object that can generate a response

`struct URLEncodedFormDecoder`

The wrapper struct for decoding URL encoded form data to Codable classes

`struct URLEncodedFormEncoder`

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The wrapper struct for encoding Codable classes to URL encoded form data