

Dynamic Responses

Agenda

SpectoLabs

- Why we need Dynamic Responses

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- Why we need Dynamic Responses
- Introduction to Templating

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- Exercises

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Request Data

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Request Data

`/api/v1/flights`

Request Data

`/api/v1/flights?to=London&from=Paris`

/api/v1/flights?to=London&from=Paris

```
[  
  {  
    "cost": "2261.97",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-01-02T15:04:05Z07:00"  
  },  
  {  
    "cost": "422.20",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-01-02T15:04:05Z07:00"  
  }  
]
```

/api/v1/flights?to=Tokyo&from=Milan

```
[
  {
    "cost": "2261.97",
    "destination": "Tokyo",
    "origin": "Milan",
    "when": "2006-01-02T15:04:05Z07:00"
  },
  {
    "cost": "422.20",
    "destination": "Tokyo",
    "origin": "Milan",
    "when": "2006-01-02T15:04:05Z07:00"
  }
]
```

/api/v1/flights?to=Barcelona&from=Mexico

```
[
  {
    "cost": "2261.97",
    "destination": "Barcelona",
    "origin": "Mexico",
    "when": "2006-01-02T15:04:05Z07:00"
  },
  {
    "cost": "422.20",
    "destination": "Barcelona",
    "origin": "Mexico",
    "when": "2006-01-02T15:04:05Z07:00"
  }
]
```

Request Data

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Request Data

`/api/v1/flights`

Request Data

`/api/v1/flights?when=today`

/api/v1/flights?when=today

```
[  
  {  
    "when": "2261.97",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-01-02T15:04:05Z07:00"  
  },  
  {  
    "cost": "422.20",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-01-02T15:04:05Z07:00"  
  }  
]
```


/api/v1/flights?when=tomorrow

```
[
  {
    "when": "2261.97",
    "destination": "London",
    "origin": "Paris",
    "when": "2006-02-02T15:04:05Z07:00"
  },
  {
    "cost": "422.20",
    "destination": "London",
    "origin": "Paris",
    "when": "2006-02-02T15:04:05Z07:00"
  }
]
```

Static is a problem

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Static is a problem

`/api/v1/flights?from=London&to=Paris&plusDays=0`

Static is a problem

`/api/v1/flights?from=London&to=Paris&plusDays=0`

Method	Path	Query Regex
GET	<code>/api/v1/flights</code>	<code>(.*)</code>

Static is a problem

/api/v1/flights?from=London&to=Paris&plusDays=0

Method	Path	Query Regex
GET	/api/v1/flights	(.*)



```
[  
  {  
    "cost": "2261.97",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-02-02T15:04:05Z07:00"  
  }  
]
```

Static is a problem

/api/v1/flights?to=Tokyo&from=Milan&plusDays=0

Method	Path	Query Regex
GET	/api/v1/flights	(.*)



```
[  
  {  
    "cost": "2261.97",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-02-02T15:04:05Z07:00"  
  }  
]
```

Agenda

- Why we need Dynamic Responses
- **Introduction to Templating**
- Exercise: Implementing Templating

Templating provides a lightweight means of dynamically generating responses

raymond build passing godoc reference

Handlebars for [golang](#) with the same features as [handlebars.js](#) 3.0.

The full API documentation is available here: <http://godoc.org/github.com/aymerick/raymond>.



```
{{variable}}
```

```
{{#if foo}}  
  {{variable}}  
{{/if}}
```


Templating

```
[  
  {  
    "cost": "2261.97",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-01-02T15:04:05Z07:00"  
  },  
  {  
    "cost": "422.20",  
    "destination": "London",  
    "origin": "Paris",  
    "when": "2006-01-02T15:04:05Z07:00"  
  }  
]
```

Templating

```
[  
  {  
    "cost": "2261.97",  
    "destination": "{{ Request.QueryParam.to }}",  
    "origin": "{{ Request.QueryParam.from }}",  
    "when": "{{ iso8601DateTime }}"  
  },  
  {  
    "cost": "422.20",  
    "destination": "{{ Request.QueryParam.to }}",  
    "origin": "{{ Request.QueryParam.from }}",  
    "when": "{{ iso8601DateTime }}"  
  }  
]
```

Dynamic Response

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Dynamic Response

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/api/v1/flights?to=Tokyo&from=Milan&plusDays=0

Dynamic Response


/api/v1/flights?to=Tokyo&from=Milan&plusDays=0



```
[
  {
    "cost": "2261.97",
    "destination": "{{ Request.QueryParam.to }}",
    "origin": "{{ Request.QueryParam.from }}",
    "when": "{{ iso8601DateTime }}"
  }
]
```

Dynamic Response

/api/v1/flights?to=Tokyo&from=Milan&plusDays=0



```
[
  {
    "cost": "2261.97",
    "destination": "{{ Request.QueryParam.to }}",
    "origin": "{{ Request.QueryParam.from }}",
    "when": "{{ iso8601DateTime }}"
  }
]
```



```
[
  {
    "cost": "2261.97",
    "destination": "Tokyo",
    "origin": "Milan",
    "when": "2006-02-02T15:04:05Z07:00"
  }
]
```


Type	Example	URL	Output

Templating

Type	Example	URL	Output
Scheme	{{ Request.Scheme }}	<u>http://www.foo.com</u>	http

Templating

Type	Example	URL	Output
Scheme	{{ Request.Scheme }}	<u>http://www.foo.com</u>	http
Query Param	{{ Request.QueryParam.param }}	<u>http://www.foo.com?</u> param=bar	bar

Templating

Type	Example	URL	Output
Scheme	{{ Request.Scheme }}	<u>http://www.foo.com</u>	http
Query Param	{{ Request.QueryParam.param }}	<u>http://www.foo.com?</u> param=bar	bar
Path Param	{{ Request.Path.[1] }}	<u>http://www.foo.com/</u> <u>foo/ham</u>	ham

Templating

Type	Example	URL	Output
Scheme	{{ Request.Scheme }}	<u>http://www.foo.com</u>	http
Query Param	{{ Request.QueryParam.param }}	<u>http://www.foo.com?</u> param=bar	bar
Path Param	{{ Request.Path.[1] }}	<u>http://www.foo.com/</u> <u>foo/ham</u>	ham
State	{{ Request.State.key }}	State = {"key" : "value"}	value

Templating

Type	Example	URL	Output
Scheme	{{ Request.Scheme }}	<u>http://www.foo.com</u>	http
Query Param	{{ Request.QueryParam.param }}	<u>http://www.foo.com?</u> param=bar	bar
Path Param	{{ Request.Path.[1] }}	<u>http://www.foo.com/</u> <u>foo/ham</u>	ham
State	{{ Request.State.key }}	State = {"key" : "value"}	value
Date Time	{{ iso8601DateTime }}	any	2017-11-18T17:52 :44Z

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