

Angular 2 Http Cheat Sheet

by Nathan (Nathane2005) via cheatography.com/28056/cs/8480/

Starting Up

```
@NgModule({
    declarations: [],
    imports: [HttpModule],
    bootstrap: [],
    providers: []
```

Using Angular HTTP

constructor(private http: Http) {}

Http Verbs **GET** get(url: string, options?: RequestOptionsArgs): Observable < Response > Performs a request with get http method. POST post(url: string, body: any, options?: RequestOptionsArgs): Observable < Response > Performs a request with post http method. PUT put(url: string, body: any, options?: RequestOptionsArgs): Observable < Response > Performs a request with put http method.

DELETE delete(url: string, options?:

RequestOptionsArgs):

Observable < Response > Performs a request with delete http method.

Http Verbs (cont)

PATCH patch(url: string, body: any, options?: RequestOptionsArgs):
Observable<Response> Performs a request with patch http method.

HEAD head(url: string, options?:
RequestOptionsArgs):
Observable<Response> Performs a request with head http method.

OPTIONS options(url: string, options?:
RequestOptionsArgs):
Observable<Response> Performs

a request with options http

RequestOptionsArgs

method.

```
interface RequestOptionsArgs {
  url : string
  method : string|RequestMethod
  search : string|URLSearchParams
  headers : Headers
  body : any
  withCredentials : boolean
  responseType :
ResponseContentType
```

Headers

```
class Headers {
  staticfromResponseHeaderString(h
eadersString: string) : Headers
  constructor (headers?: Headers|
{[name: string]: any})
  append(name: string, value:
string) : void
 delete(name: string) : void
  forEach(fn: (values: string[],
name: string, headers: Map<string,
string[]>) => void) : void
 get(name: string) : string
  has(name: string) : boolean
  keys() : string[]
  set(name: string, value:
string|string[]) : void
  values() : string[][]
  toJSON() : {[name: string]: any}
  getAll(name: string) : string[]
  entries()
```

Observables - Flow





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Sample Delegate

```
import { Injectable } from
'@angular/core';
import {Http, Response, Headers,
RequestOptions} from
"@angular/http";
import 'rxjs/Rx';
import {Observable} from "rxjs";
import {Post} from
"./http/post.class";
@Injectable()
export class HttpService {
  constructor(private http: Http) {
 private requestUrl: string =
'http://localhost:4000/posts';
  //Do all methods and observable
options
  getData(id : number) :
Observable<Post> {
    return
this.http.get(${this.requestUrl}/$
      .map(this.mapResponse)
      .catch(this.handleError)
  }
  handleError(error: any):
Observable<any> {
    console.error('An error
occurred', error);
    return
Observable.throw(error.json() ||
'Server error');
 mapResponse(response : Response)
: Post {
    return response.json();
```

Sample Delegate (cont)

```
addData(body : Post) :
Observable<Post> {
   let bodyString =
JSON.stringify(body);
    let header = new Headers({
      'Content-Type' :
'application/json'
   });
    let options = new
RequestOptions({
     headers : header
    });
    return
this.http.post(${this.requestUrl}
, bodyString, options)
      .map(this.mapResponse)
      .catch(this.handleError);
 updateData(body : Post) :
Observable<Post> {
   let bodyString =
JSON.stringify(body);
    let header = new Headers({
     'Content-Type':
'application/json'
    });
   let options = new
RequestOptions({
     headers : header
    });
    return
this.http.put(${this.requestUrl}/$
{body.id}, bodyString, options)
      .map(this.mapResponse)
```

Sample Delegate (cont)

```
deleteData(body : Post) :
Observable<Post> {
    return
this.http.delete(${this.requestUr}
1}/${body.id})
    .map(this.mapResponse)
    .catch(this.handleError);
}
```

Rx - Map

```
getData(id : number) :
Observable<Post> {
    return
this.http.get(${this.requestUrl}/$
{id})
    .map(this.mapResponse)
    .catch(this.handleError)
}
mapResponse(response : Response)
: Post {
    return response.json();
}
```

The map() function takes in a lambda function or a reference to a function that will execute the procedure and return the mapped result.

Accepts (res: Respone) and returns a result.



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.catch(this.handleError);

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Rx - catch

```
getData(id : number) :
Observable<Post> {
   return
this.http.get(${this.requestUrl}/$
      .map(this.mapResponse)
      .catch(this.handleError)
 handleError(error: any):
Observable<any> {
   console.error('An error
occurred', error);
Observable.throw(error.json() ||
'Server error');
 }
```

The catch reference is there to handle exceptions that are thrown. This gives you an opportunity to handle them in a graceful manner.

All rx operations return an observable.

Observable - Subscribe

```
PartialObserver<T> | ((value: T)
observerOr
Next
              => void)
```

error (error: any) => void

complete () => void

```
this.service.getData(10).subscribe(
(data : Post) => {
this.result = data;
(error : any) => {
console.error(error);
```

Reference

```
private requestUrl: string =
'http://localhost:4000/posts';
  getData(id : number) :
Observable<Post> {
    return
this.http.get(${this.requestUrl}/$
{id})
      .map(this.mapResponse)
      .catch(this.handleError)
```

Using the back ticks to specify internal references `` referencing the content in \${}



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