

# Angular HTTP Client

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# Angular HTTP Client

- Angular supports communication with servers using the HTTP protocol via the browser's
  - XMLHttpRequest (XHR): HttpModule
  - JSONP: JsonpModule
    - Import from @angular/http library
- Operation is asynchronous in nature
- Always delegate data access to a supporting service class
  - Components make use of the services

# The HTTP Client

- The HTTP client returns an Observable:

```
http.get(<URL>)  
    .subscribe(. . .);
```

- Methods:

```
http.get(), http.put(), http.post(), http.delete(),  
http.jsonp(), http.head() . . .
```

# HTTP Response

- The Angular HTTP client follows the Fetch specification for the response object returned by the Fetch function
- That spec defines a `json()` method that parses the response body into a JavaScript object  
`body = res.json()`

# Error Handling

- Error handling done through catch()  
    `http.get(<URL>)`  
        `.map(...)`  
        `.catch(...)`
- Process the error in the service and return an error message string to the component through `Observable.throw()`
- Component that subscribes should then decide how to handle error  
    `.subscribe(data => ... ,`  
        `error => ... );`