

Load data from file

Common Syntax

```
d3.typeOfFile("path/to/file.extension").then(function(VariableName)
{
    // all the code that deals with this data
});
```

Load JSON

```
d3.json("example_1.json").then(function(data2) {  
  console.log(data2);  
  canvas.selectAll("ccc").data(data2).enter().append()  
  ....  
});
```

All loaded data must be dealt within function beginning and end function. Outside it won't be recognized

Load CSV

```
d3.csv("grog2.csv", function(d) {  
  return {  
    Beer : d.Beer,  
    Wine : d.Wine,  
    Spirit : d.Spirit,  
    Country : d.Country,  
    Year : d.Year  
  };  
}).then(function(data2) {  
  console.log(data2);  
  // any code dealing with data  
});
```

We are converting CSV to Dictionary
Assigning columns to Dictionary keys

We can get data from APIs

If it returns JSON format

```
d3.json("https://api.exchangeratesapi.io/latest").then(function(data) {  
  console.log(data);  
})
```

Calls for data once

We can get data from APIs

If it returns JSON format

```
function getData() {  
  d3.json("https://randomuser.me/api/").then(function(data) {  
    console.log(data.results[0]);  
  })  
}  
setInterval(getData, 2000);
```

Repeatedly (every 2 second) queries API

We can get data from APIs

If it returns JSON format

```
sum = 0;
function getData() {
  d3.json("https://randomuser.me/api/").then(function(data) {
    console.log(data.results[0]);
    sum = sum+1;
    if (sum<3){
      clearInterval(ourInterval)
    }
  })
}
var ourInterval = setInterval(getData, 2000);
```

To cancel it after some time we must assign interval to variable and call `clearInterval(varname)` when conditions are met

Create Dictionary/JSON

```
"employees":[  
  {"firstName":"John", "lastName":"Doe"},  
  {"firstName":"Anna", "lastName":"Smith"},  
  {"firstName":"Peter", "lastName":"Jones"}  
]
```


Create dictionary from Arrays

```
var temparay = []  
for (i = 0; i<arrayName.length; i++){  
    el = {"KeyName":arrayName[i], "KauName2":arrayName2 [i]}  
    temparay.push(el)  
}
```