나의 모델 만들기 : 라이브러리 설치

텐서플로우 홈페이지 <u>바로가기</u>

Tensorflow.js 홈페이지 <u>바로가기</u>

Tensorflow.js 홈페이지에서 -> 튜토리얼 -> 설정에 들어간다

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <script
src="https://cdn.jsdelivr.net/npm/@tensorflow/tfjs@2.0.0/dist/tf.min.js"
></script>
    <title>Document</title>
</head>
<body>
    <script>
        console log(tf)
    </script>
</body>
</html>
```

기본 HTML 파일에서 스크립트 태그 추가하는 코드

console 결과

```
Issue: 📁 1
                                                        5.html:12
▼ Object 🚺
  ► AdadeltaOptimizer: f e(e,n,r)
  ▶ AdagradOptimizer: f e(e,n)
  ▶ AdamOptimizer: f e(e,n,r,a)
  ► AdamaxOptimizer: f e(e,n,r,a,i)
   Add: "Add"
   AddN: "AddN"
   BatchMatMul: "BatchMatMul"
   BatchToSpaceND: "BatchToSpaceND"
   BroadcastTo: "BroadcastTo"
  ▶ Callback: f e()
  ▶ CallbackList: f t(t,e)
   Concat: "Concat"
   Conv2D: "Conv2D"
   Conv2DBackpropFilter: "Conv2DBackpropFilter"
   Conv2DBackpropInput: "Conv2DBackpropInput"
   Conv3D: "Conv3D"
   Conv3DBackpropFilterV2: "Conv3DBackpropFilterV2"
   Conv3DBackpropInputV2: "Conv3DBackpropInputV2"
  ► CustomCallback: f e(e,n)
  ▶ DataStorage: f t(t,e)
   DepthToSpace: "DepthToSpace"
   DepthwiseConv2dNative: "DepthwiseConv2dNative"
   DepthwiseConv2dNativeBackpropFilter: "DepthwiseConv2dNativeBa
   DepthwiseConv2dNativeBackpropInput: "DepthwiseConv2dNativeBac
   Diag: "Diag"
   Div: "Div"
  ▶ ENV: t {global: Window, flags: {...}, flagRegistry: {...}, urlFla
  ► EarlyStopping: f e(e)
  ▶ Environment: f t(t)
   Equal: "Equal"
   FromPixels: "FromPixels"
   FusedBatchNorm: "FusedBatchNorm"
  ▶ GraphModel: f t(t,e)
   Greater: "Greater"
   GreaterEqual: "GreaterEqual"
  ▶ History: f e()
    Identity: "Identity"
  ▶ InputSpec: f (t)
```

NPM에서 tensorflow 설치하는 방법

npm install @tensorflow/tfjs

```
found 0 vulnerabilities
npm notice
npm notice
npm notice New minor version of npm available! 8.1.4 -> 8.5.4
npm notice Changelog: https://github.com/npm/cli/releases/tag/v8.5.4
npm notice Run npm install -g npm@8.5.4 to update!
npm notice

//olumes/hoonyssd/ssafy 2학기/Tensorflow.js정리/Test

12s 14:17:21
```

```
var tf = require('@tensorflow/tfjs');
console.log(tf);
```

결과

```
문제 출력 <u>터미널</u> 디버그 콘솔

version: {
  'tfjs-core': '3.14.0',
  'tfjs-backend-cpu': '3.14.0',
  'tfjs-data': '3.14.0',
  'tfjs-data': '3.14.0',
  'tfjs-layers': '3.14.0',
  'tfjs-converter': '3.14.0',
  tfjs: '3.14.0'
}
```