2022 ThreeJS 001

!Tips n Links

- Set-up part 1 // new project, node install

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※ typescript: npm install -g typescript / 확인: git -version, node -v, npm -v, tsc -v(오류 시 tsc.cmd -v)
                   https://threejs.org/
                                                                  * sbcode https://sbcode.net/threejs/create-threejs-project/
※ 유데미 강좌
                   https://www.udemy.com/course/threejs-tutorials/ ※ 다른 강의 https://threejs-journey.com/
     Typescript :
                             javascript+IntelliSense features (인텔리센스, 지능형코드완성, 기능 집합)
                              will use TS => to generate JS suitable for webpack to bundle codes into a single file
                              TS 새로고침: F1, TypeScript: Restart TS server
      ThreeJS :
                              네이티브 WebGL을 최적화하고 컨트롤을 제공하는 라이브러리 // three.min.js연결
※ 프로젝트 만들기:
                              mkdir 플젝폴더 > cd 폴더 > dir/ls > ①npm init (package.json 생성) > code .
                              ②npm install three —save-dev => json에 devDependencies에 추가
   node> three
                              ③mkdirs <u>dist > client + server</u> ④dist> <u>client에 index.html</u> 만들기<sup>1)</sup>
           @type/three
                                                                      ⑥src> client에 client.ts<sup>2)</sup> + tsconfig.ison<sup>3)</sup> 만들기
                              ⑤mkdirs src > client + server
                              7) npm install @types/three --save-dev
https://sbcode.net/threejs/create-threejs-project/
                                            << 코드복사
                                                                              import * as THREE from 'three
https://sbcode.net/threejs/add-initial-scripts/
                                                                              const scene = new THREE.Scene()
1)./dist/client/index.html 2)./src/client/tsconfig.json 3)./src/client/client.ts
                                                                              const camera = new THRFF.PerspectiveCamera(
                                                                                 window.innerWidth / window.innerHeight,
<!DOCTYPE html>
                                                                                 0.1
<html lang="en">
    <head>
                                                                              camera.position.z = 2
       <meta charset="utf-8" />
                                                                              const renderer = new THREE.WebGLRenderer()
       <meta name="viewport"
                                                                              renderer.set Size (window.inner Width,\ window.inner Height)
             content="width=device-width.
                                                                              document.body.appendChild(renderer.domElement)
             initial-scale=1" />
                                                                              const geometry = new THREE.BoxGeometry()
       <title>Three.js TypeScript Tutorials</title>
                                                                              const material = new THREE.MeshBasicMaterial({
                                                                                 color: 0x00ff00
       <style>
                                                                                 wireframe: true,
           body {
              overflow: hidden;
                                                                              const cube = new THREE.Mesh(geometry, material)
              margin: 0px;
                                                                              scene.add(cube)
                                                                              window.addEventListener('resize', onWindowResize, false)
       </style>
                                                                              function onWindowResize() {
                                                                                 camera.aspect = window.innerWidth / window.innerHeight
    </head>
                                                                                 camera.updateProjectionMatrix()
    <body>
                                                                                 renderer.setSize(window.innerWidth, window.innerHeight)
        <script type="module" src="bundle.js"> </script>
                                                                                 render()
    </body>
</html>
                                                                              function animate() {
                                                                                 requestAnimationFrame(animate)
2)
                                                                                 cube.rotation.x += 0.01
                                                                                 cube.rotation.y += 0.01
    "compilerOptions": {
                                                                                 render()
       "moduleResolution": "node", //how to find 라이브러리... node다~
                               //instantiate variable..? 추천사항
                                                                              function render() {
       "strict": true
                                                                                 renderer.render(scene, camera)
    "include": ["**/*.ts"] <- TS compiler가 여기에 파일 넣을거=>client.ts
                                                                              animate()
```

/* ------ <lang: en>------- */ dist: distribution 배포, 분포 / instantiate설명, 예시 classes, variables / IntelliSense features코드 자동완성?정보?