

An aerial photograph of the New York City skyline at dusk. The Empire State Building is prominently featured in the center, illuminated with red and green lights. The city is densely packed with skyscrapers, and the lights of the buildings are visible against the dark sky. The water of the harbor is visible in the background.

BS Study S67

Implementing DrawingML-based Shape Editor with ES6

S67 WARNING

본 스터디는 매우 폭력적, 선정적 개드립을 함유하고 있으며, 만 99세 미만의 어린이들에게 매우 유해합니다.

본 스터디에서 등장하는 ES6 코드는 고도로 연출된 판타지이므로, 회사에서 따라하실 때는 반드시 파트너의 동의를 구하십시오.

연사도 ES6를 잘 모르므로, 스터디 도중 곤란한 질문을 삼가해 주십시오. 페북 그룹이나 슬랙을 이용하시면 '언젠가는' 찾아서 답변해 줍니다.

An aerial view of the New York City skyline at dusk. The Empire State Building is prominently featured in the center, with its top section illuminated in red and green. The city lights are visible, and the sky is a mix of dark blue and orange from the setting sun. The text "Previously on S67#1..." is overlaid in the center in a white, italicized font.

Previously on S67#1...

Previously on S67...

- OOXML소개
- XHR 객체 확장 및 ajax Call을 Promise로 감싸기
- presetShapeDefinitions.xml 읽어들이기

An aerial photograph of the New York City skyline at dusk. The sky is a mix of dark purple, blue, and orange. The city is densely packed with skyscrapers, many of which are illuminated with their lights. The Empire State Building is prominent in the center, with its top lit in red and green. The Hudson River is visible on the right side of the image. The text "Today, we will build..." is overlaid in the center in a white, italicized, sans-serif font.

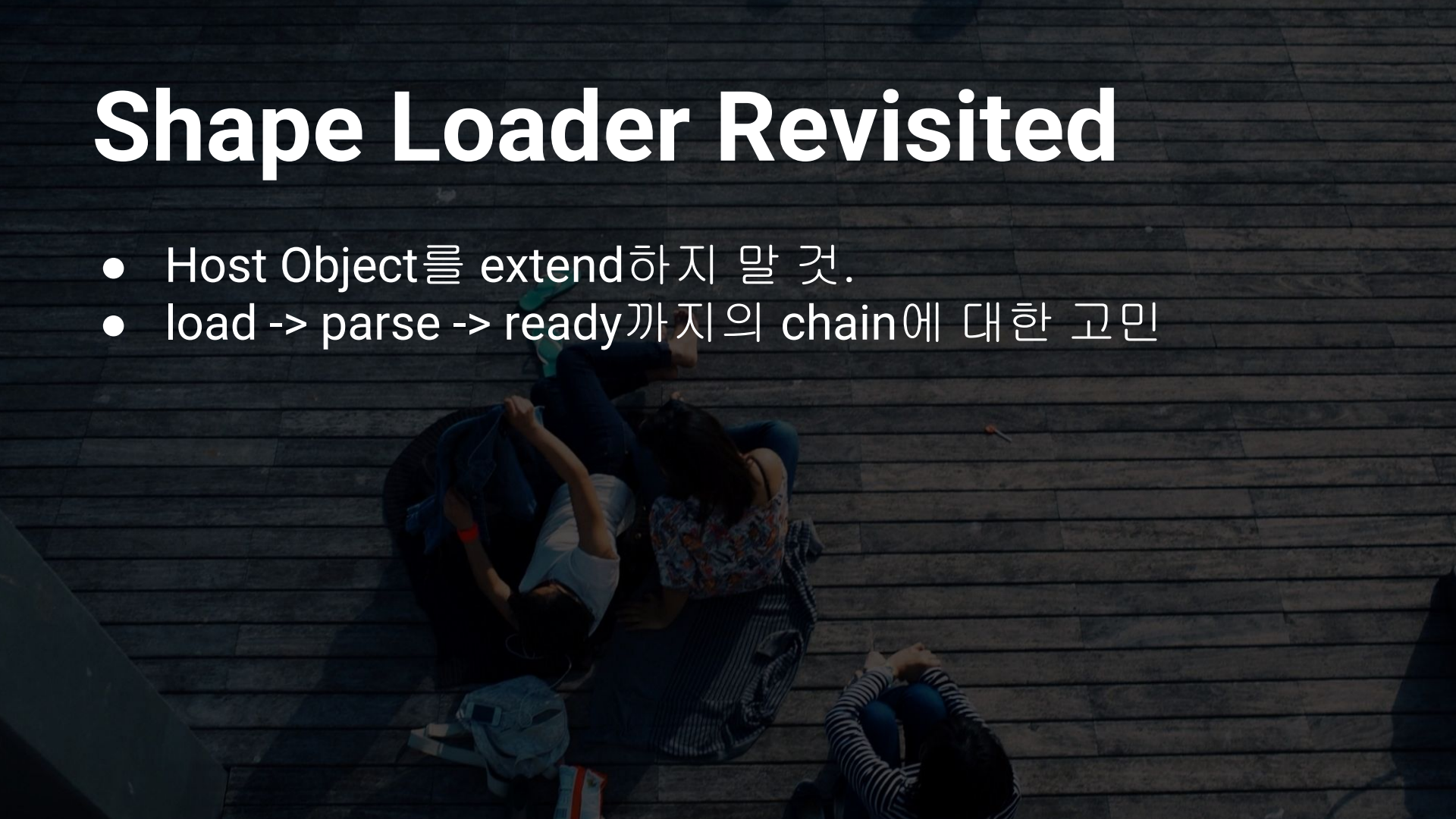
Today, we will build...

An aerial photograph of the New York City skyline at dusk. The sky is a mix of dark blue and orange, with scattered clouds. The city is densely packed with skyscrapers, many of which are illuminated with their lights. The Empire State Building is prominent in the center, with its top lit in red and green. The Hudson River is visible on the right side of the image. The title "A Formula Parser!!" is overlaid in the center in a large, white, italicized font.

A Formula Parser!!

Shape Loader Revisited

- Host Object를 extend하지 말 것.
- load -> parse -> ready까지의 chain에 대한 고민



Array.from()

- Draws a new Array instance from
 - Array-like Object
 - 'Iterable' Object
- Optional argument mapFn
 - Array.from(o, mapFn, ctx)
 - Array.from(o).map(fn, ctx)
- https://developer.mozilla.org/ko/docs/Web/JavaScript/Reference/Global_Objects/Array/from

Dive deep into preset

<shape>

<avLst ... />

// 조절점 기본값

<gdLst ... />

// **guide formula**

<ahLst ... />

// 조절점 핸들

<cxnLst ... />

// 연결점

<rect ... />

// 글상자 **Geometry**

<pathLst ... />

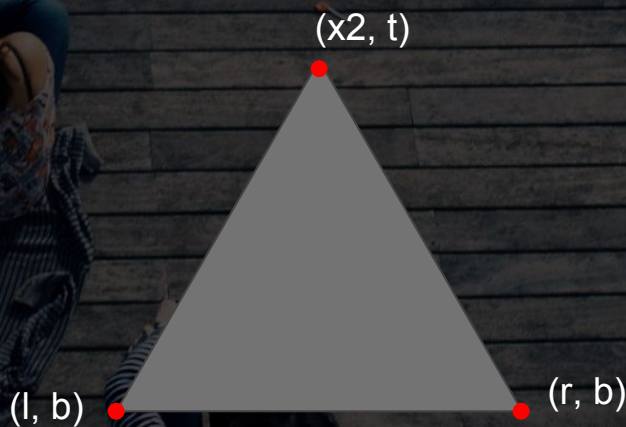
// 도형 **Vector path**

</shape>



Guide Formula

- 도형의 path를 그릴 때 참조할 값(좌표)을 계산하는 수식
- 도형의 geometry(top, left, width, height) 및 adj value만이 변수로 참여



Guide Formula

function

<gd name="x3" fmla="+ - x1 wd2 0" />

Formula name

parameters

For the first time...

- 각 도형은 Shape class의 서브 클래스
- 각기 다른 메소드를 갖는 서브 클래스를 동적으로 생성할 수 있을까?



For the first time...

```
Class Shape {  
  static classFactory(def) {  
    let f = {};  
    def.gd.forEach(gd => f[gd.name] = new Function(`...`);  
    return class extends Shape {  
      constructor { this.f = f; }  
    }  
  }  
}
```

Kind-o-params

- Constant value
- Another guide formula
- Built-in formula
 - <http://grePCODE.com/file/repo1.maven.org/maven2/org.apache.poi/poi-ooxml/3.11-beta3/org/apache/poi/xslf/model/geom/Formula.java>



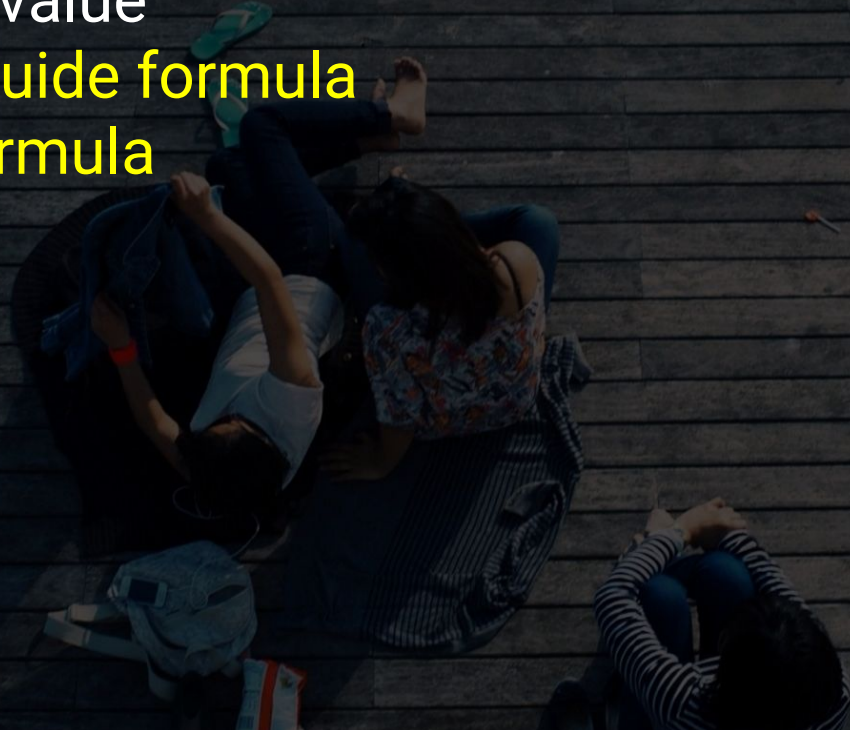
우린 안될까야. 아마.

~~2nd trial~~ x th trial

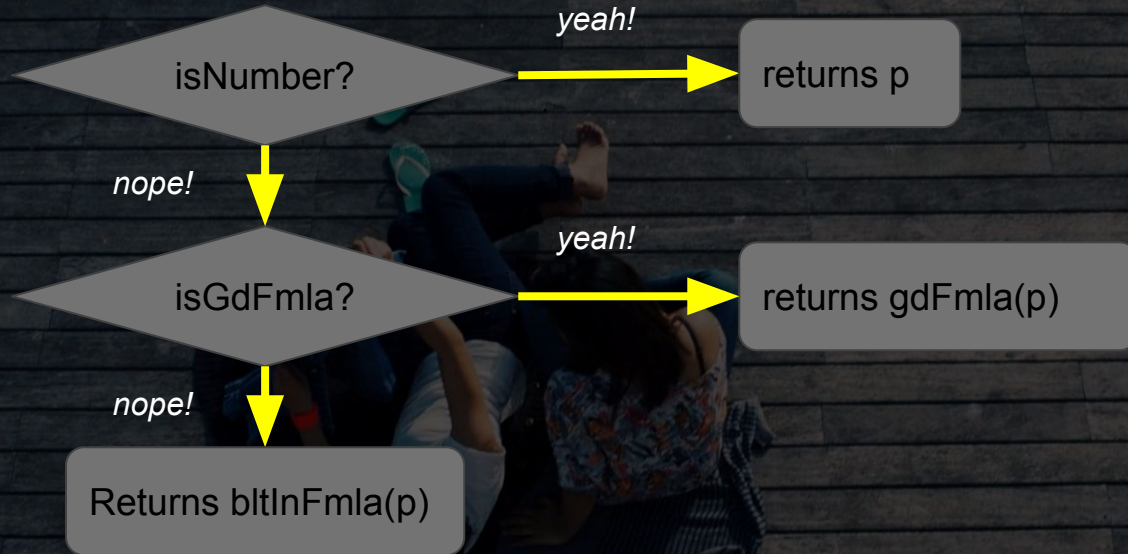
- ShapeDefinition에 guide formula를 구조화해서 싣고
- 해석은 Shape에게 맡기자.

Kind-o-params

- Constant value
- Another guide formula
- Built-in formula



Param type Classification



Getter method

- 객체의 프로퍼티를 함수로 바인딩
- 정보 은닉
- `argument`를 가져서는 안됨

