

Generative Design II

Sample Code

16일 - 모든 알파벳 디자인 및 코드 구현

23일 - 애니메이션 / 인터랙션 추가 + 화면 디자인 구현

26일 - 과제전 설치

Sample Code

<https://editor.p5js.org/youngsangcho/sketches/PEouogHTO>

| | | | |
|------|------|------|------|
| 0, 0 | 1, 0 | 2, 0 | 3, 0 |
| 0, 1 | 1, 1 | 2, 1 | 3, 1 |
| 0, 2 | 1, 2 | 2, 2 | 3, 2 |
| 0, 3 | 1, 3 | 2, 3 | 3, 3 |

| | | | |
|--|--|--|--|
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|--|--|--|--|
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| | | | |
| | | | |

char : "a"

points: (0, 3)

(0, 2)

(1, 1)

(2, 0)

(3, 1)

(3, 2)

(3, 3)

char : "b"

points: (0, 0)

(0, 1)

(0, 2)

(0, 3)

(1, 3)

(2, 3)

(3, 3)

(3, 2)

(3, 1)

(2, 1)

(1, 1)

char : "c"

points: (3, 0)

(2, 0)

(1, 0)

(0, 0)

(0, 1)

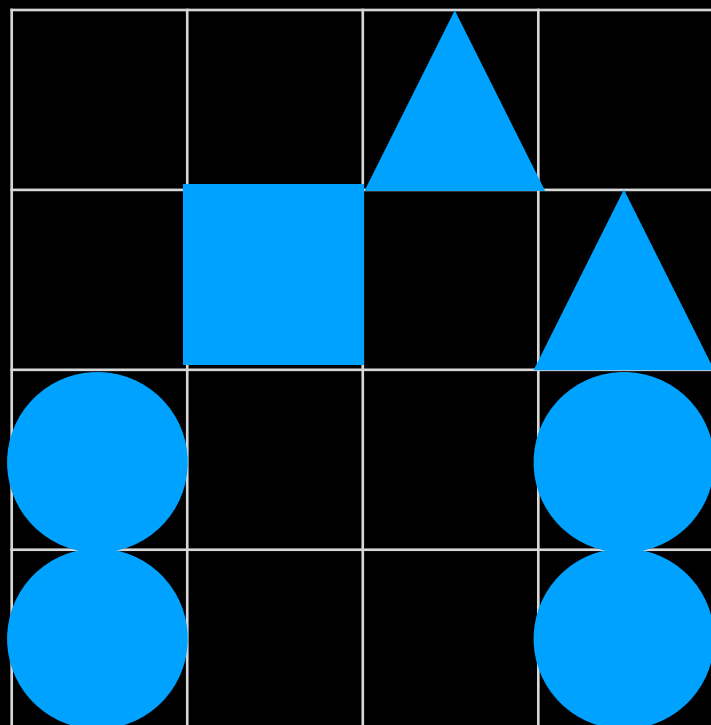
(0, 2)

(0, 3)

(1, 3)

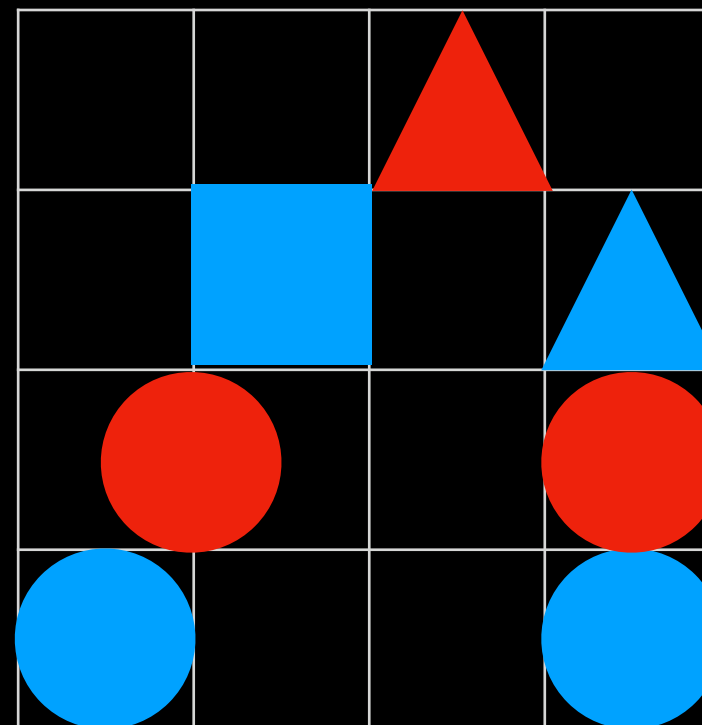
(2, 3)

(3, 3)



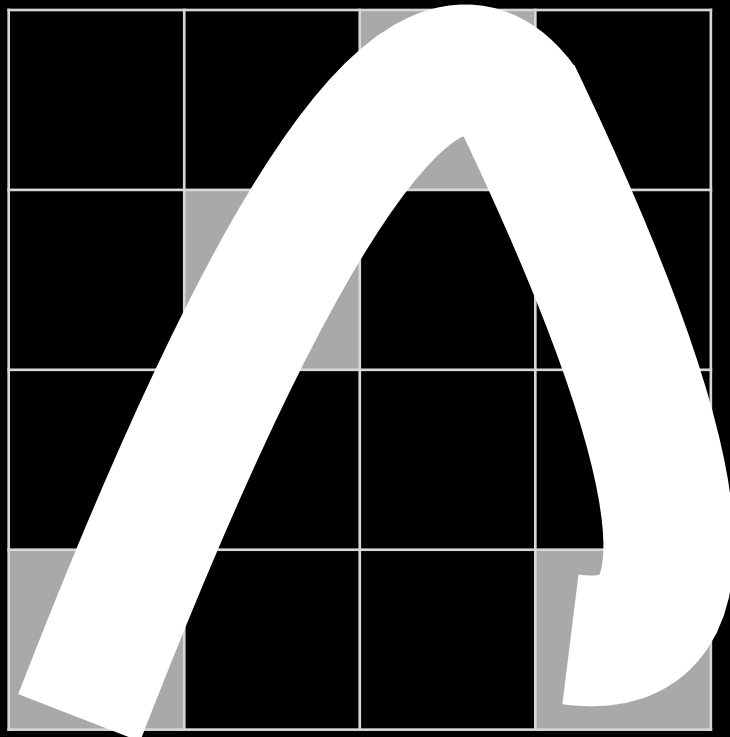
char : "a"

points: (0, 3) / circle
(0, 2) / circle
(1, 1) / rect
(2, 0) / tri
(3, 1) / tri
(3, 2) / circle
(3, 3) / circle

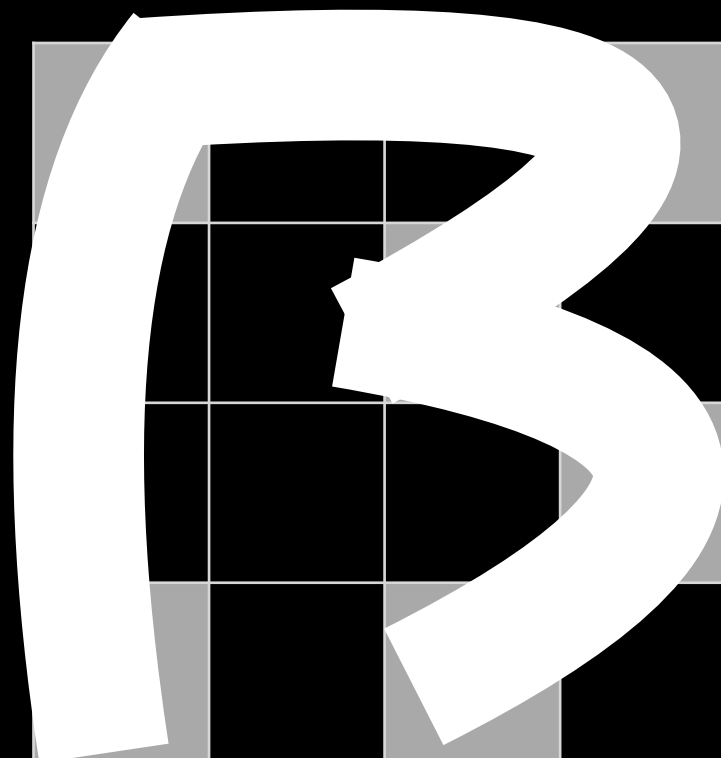


char : "a"

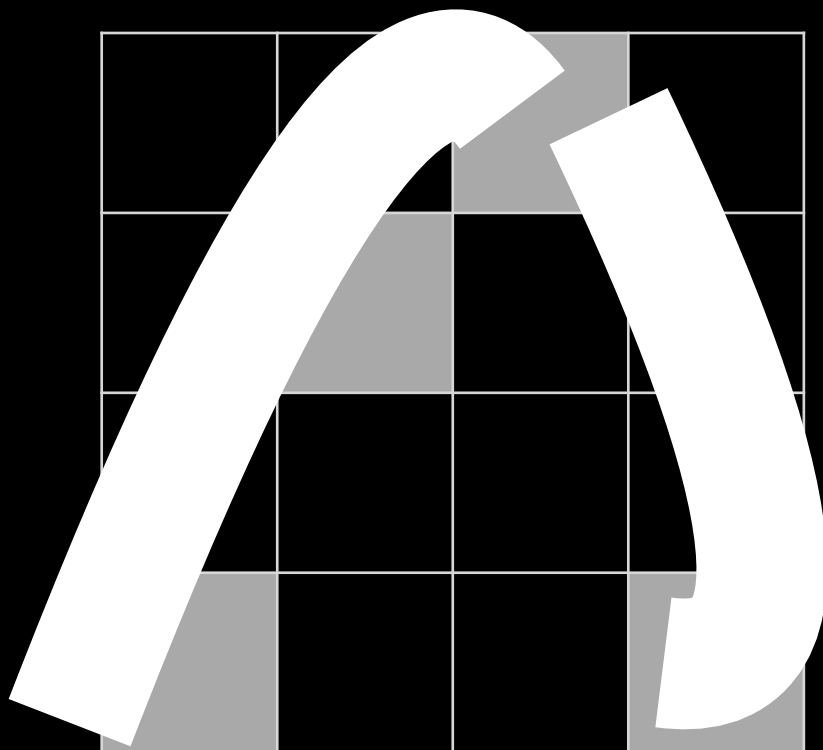
points: (0, 3) / circle / (0, 0, 255)
(0.5, 2) / circle / (255, 0, 0)
(1, 1) / rect / (0, 0, 255)
(2, 0) / tri / (255, 0, 0)
(3, 1) / tri / (0, 0, 255)
(3, 2) / circle / (255, 0, 0)
(3, 3) / circle / (0, 0, 255)



char : "a"
points: (0, 3)
 (1, 1)
 (2, 0)
 (3, 3)



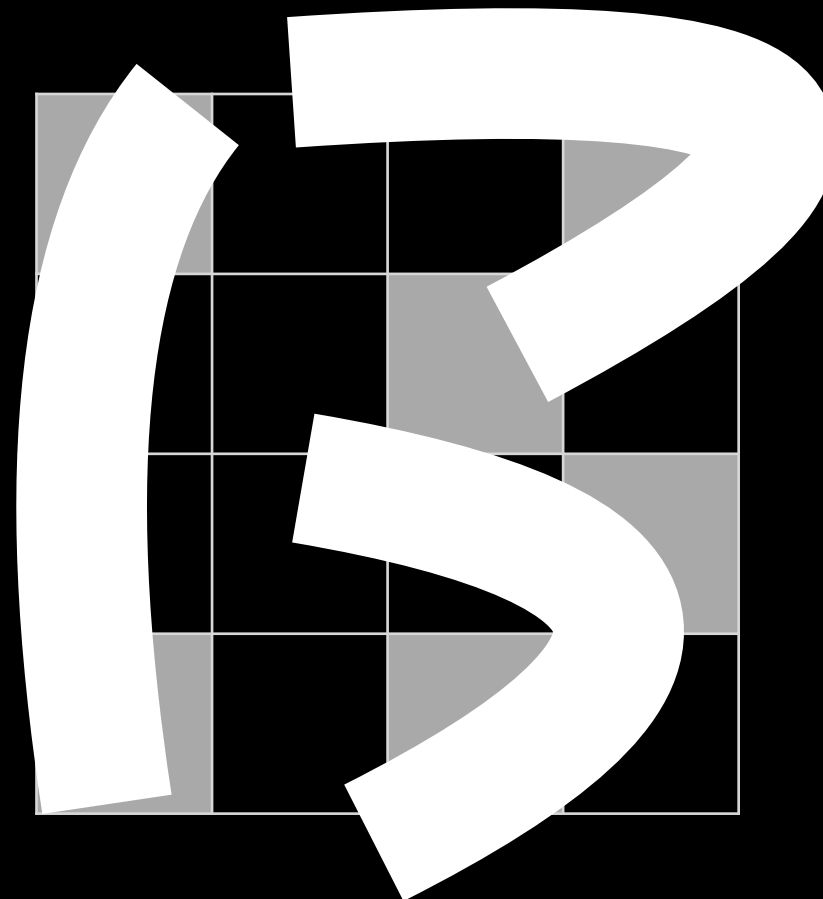
char : "b"
points: (0, 3)
 (0, 0)
 (3, 0)
 (2, 1)
 (3, 2)
 (2, 3)



```

char : "a"
lines :
  {
    points: (0, 3)
           (1, 1)
           (2, 0)
           (3, 3)
  },
  {
    points: (0, 3)
           (1, 1)
           (2, 0)
           (3, 3)
  }

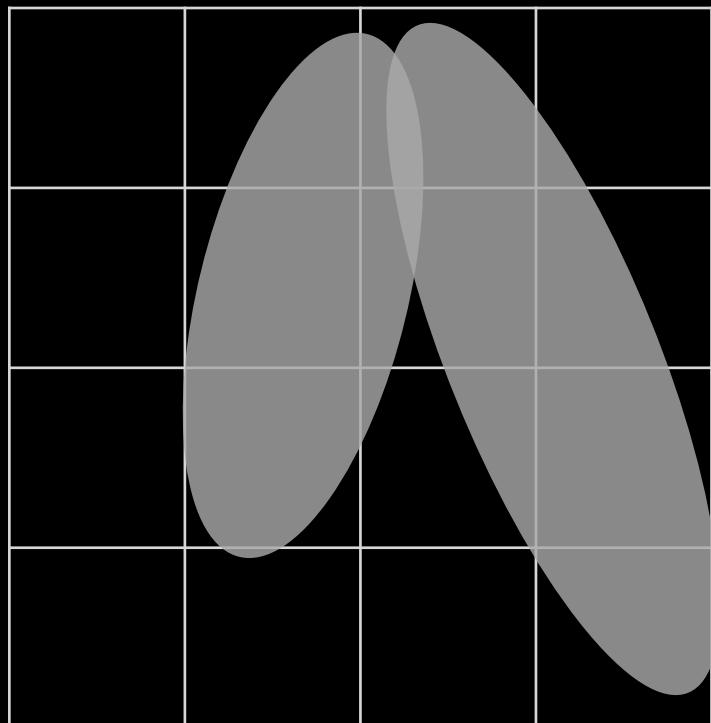
```



```

char : "b"
lines: {
  points: (0, 3)
         (0, 0)
},
  points: {
    (0, 3)
         (3, 0)
  },
  points: {(0, 3)
         (3, 2)
         (2, 3)
  }
}

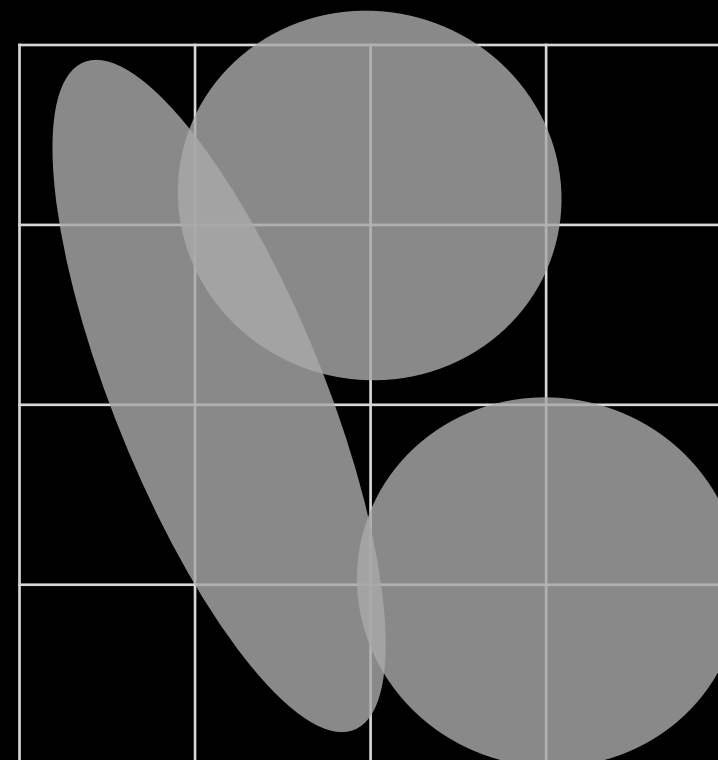
```



char : "a"

points: (1.5, 1.5) / w: 10 / h: 30 / 10deg

(3, 2) / w: 10 / h : 40 / -10deg



char : "b"

points: (2, 1) / w: 10 / h: 40 / -10deg

(2, 0.8) / w: 20 / h : 20 / 0deg

(3, 3) / w: 20 / h : 20 / 0deg

students.json

```
{  
  "students" : [  
    {  
      "name": "cho",  
      "height": 150  
    },  
    {  
      "name": "kim",  
      "height": 180  
    },  
    {  
      "name": "park",  
      "height": 130  
    }  
  ]  
}
```

students

| | |
|--------|-----|
| name | cho |
| height | 150 |

| | |
|--------|-----|
| name | kim |
| height | 180 |

| | |
|--------|------|
| name | park |
| height | 130 |

char : "a"
points: (0, 3)
 (0, 2)
 (1, 1)
 (2, 0)
 (3, 1)
 (3, 2)
 (3, 3)

char : "b"
points: (0, 0)
 (0, 1)
 (0, 2)
 (0, 3)
 (1, 3)
 (2, 3)
 (3, 3)
 (3, 2)
 (3, 1)
 (2, 1)
 (1, 1)

JSON

```
{  
  "types" : [  
    {  
      "char": "a",  
      "points": [  
        {  
          "x": 0,  
          "y": 3  
        },  
        {  
          "x": 0,  
          "y": 2  
        }  
      ]  
    },  
    {  
      "char": "b",  
      "points": [  
        {  
          "x": 0,  
          "y": 0  
        },  
        {  
          "x": 0,  
          "y": 1  
        }  
      ]  
    }  
  ]  
}
```

Sample Code

type

<https://editor.p5js.org/youngsangcho/sketches/JVWJxZJpO>

type + shape

<https://editor.p5js.org/youngsangcho/sketches/Ne7ZWluWv>

type + shape2

<https://editor.p5js.org/youngsangcho/sketches/16gryqlPD>

line + random

<https://editor.p5js.org/youngsangcho/sketches/7GMaYSSOQ>

spline curve

<https://editor.p5js.org/youngsangcho/sketches/yYUPrKgUR>

noise particle

<https://editor.p5js.org/youngsangcho/sketches/-MbUU2rKL>

Sample Code

box2d

<https://editor.p5js.org/javier/sketches/wzLQrzS0t>

matter.js

<https://brm.io/matter-js/>

과제

매주 월요일 밤12시

기한 맞춰 제출

평가 항목

- + 과제별 요구사항
- + 아이디어, 디자인
- + 노력, 시간

과제

남의 코드 베끼지 말기. 가능한 직접 쓰기.

다른 사람/인터넷의 코드를 참조하는 경우,
+ 블로그와 코드 안에 출처 밝히고,
+ 이해해서 내 것으로 만든 경우에만 인정. (모르면 질문)

과제 검사 시, 질문할 수도.