



tinkercad workshop
<http://www.tinkercad.com>

한림대학교 메이커 스페이스
Volunteer 이 윤환

Tinkercad | Create 3D digit X +

https://www.tinkercad.com

C 검색

로그인 등록

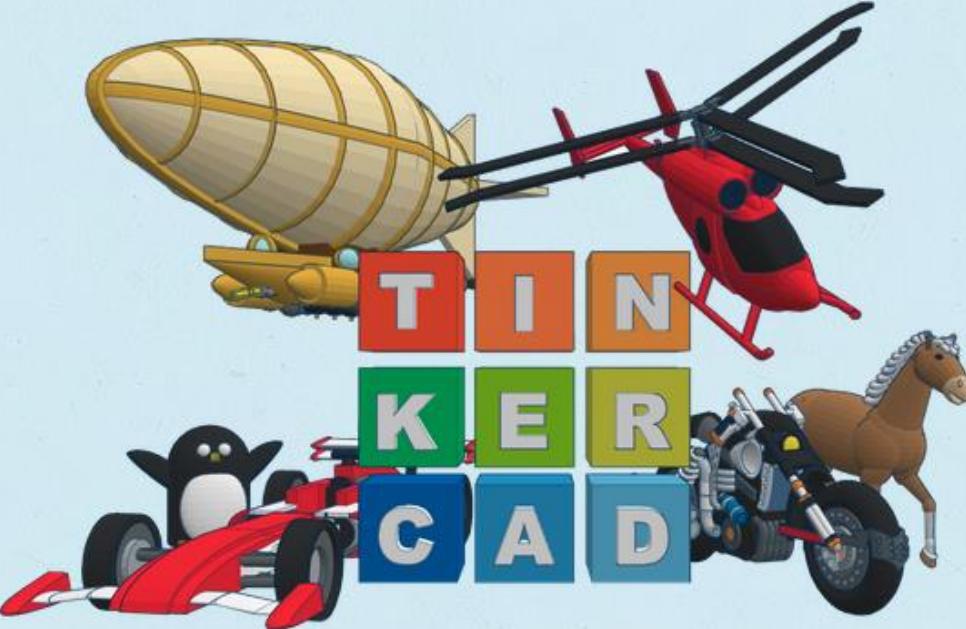
TINKERCAD FOR... 기능 갤러리 COMMUNITY 알아보기 교육

TIN
KER
CAD

Tinkercad는 모두를 위한 간단한 온라인 **3D** 디자인 및 **3D** 인쇄 앱입니다.

디자이너, 취미로 하는 사람, 교사 또는 어린이 등이 Tinkercad를 사용하여 장난감, 원형, 흰 데코, Minecraft 모형, 보석 등을 디자인할 수 있습니다. 이 도구로 만들 수 있는 물건에는 끝이 없습니다!

지금 텁커링 시작



Autodesk - 계정 작성

https://accounts.autodesk.com/register?AuthKey=6a6a57ee-a046-4

검색

계정 작성

국가

미국

생일

월 일 년

다음

계정이 이미 있습니까? [로그인](#)

모든 Autodesk용 사용자 계정
[자세히 알아보기](#)



계정 작성



국가

미국

- 네덜란드
- 노르웨이
- 노퍽 섬
- 뉴질랜드
- 뉴칼레도니아
- 니우에 섬
- 니제르
- 니카라과
- 대만
- 대한민국**
- 덴마크
- 도미니카
- 도미니카 공화국
- 독일
- 동티모르
- 라오스
- 라이베리아
- 라트비아
- 러시아 연방
- 레바논

Autodesk - 계정 작성

https://accounts.autodesk.com/register?AuthKey=6a6a57ee-a046-4

검색

계정 작성

국가

대한민국

생일

3월 7 1972

다음

계정이 이미 있습니까? [로그인](#)

모든 Autodesk용 사용자 계정
[자세히 알아보기](#)

Autodesk - 계정 작성

https://accounts.autodesk.com/User/SignUp?AuthKey=6a6a57ee-a0c0-43d5-8f3e-000000000000

검색

계정 작성

전자 메일

daum_nani@hanmail.net ✓

암호

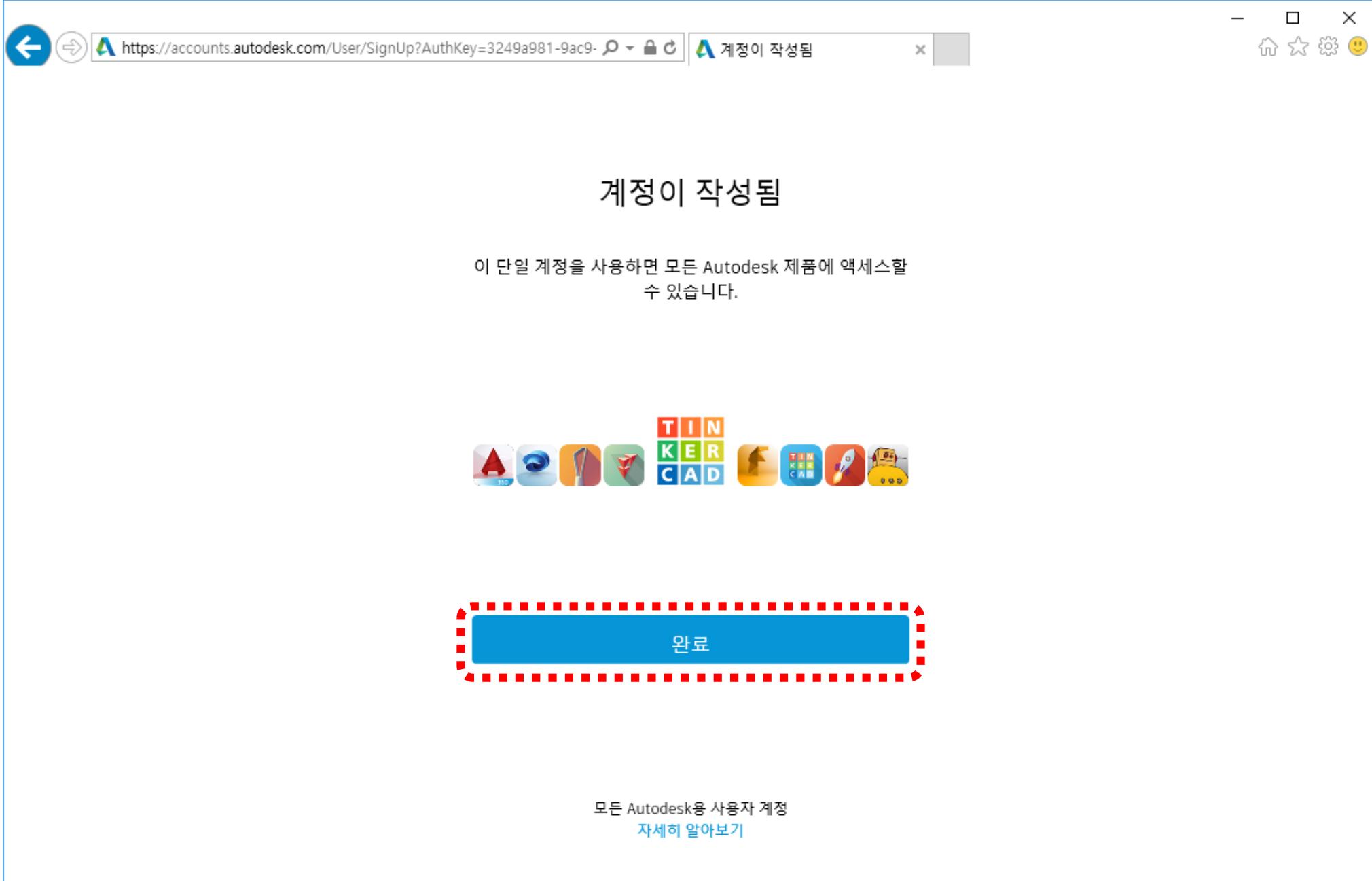
••••••••

 Tinkercad 서비스 약관 및 Autodesk 개인 정보 보호 정책에 동의합니다.

계정 작성

계정이 이미 있습니까? [로그인](#)

모든 Autodesk용 사용자 계정
[자세히 알아보기](#)



간단한 안내

안내를 끝내고 처음으로 이동
하기 위해 클릭합니다

Tinkercad Basic Skills Learning the Moves

All changes saved

Import Export Share

Workplane Ruler

Tinkercad Basic Shapes

Box Cylinder

Box Cylinder

Pyramid Roof

TOP FRONT

Workplane

Next >

Edit Grid

Snap Grid 1.0 mm

The screenshot shows the Tinkercad interface with a project titled "Learning the Moves". The main workspace displays a 3D model consisting of two cylindrical objects (one orange, one brown) and a dark grey gear assembly. The workspace is a light blue grid. On the left, there's a preview section showing the same model from different angles. The top navigation bar includes links for "Tinkercad Basic Skills Learning the Moves", "All changes saved", "Import", "Export", and "Share". On the right, there are toolbars for "Workplane" and "Ruler", and a sidebar for "Tinkercad Basic Shapes" which lists "Box" and "Cylinder" in both red and orange colors, along with "Pyramid" and "Roof" shapes. A yellow callout box in the top right corner points to the title bar, with Korean text inside it reading "안내를 끝내고 처음으로 이동하기 위해 클릭합니다" (Click here to move to the first page after finishing the guide). At the bottom, there are buttons for "Edit Grid" and "Snap Grid 1.0 mm", and a "Next >" button.

Dashboard | Tinkercad + X

https://www.tinkercad.com/#/

TINKERCAD FOR... 갤러리 COMMUNITY 알아보기 교육

내 최근 디자인

새 디자인 작성

yoonani72

디자인 검색...

디자인

Circuits

학습

프로젝트

+ 프로젝트 생성

트윗 팔로우

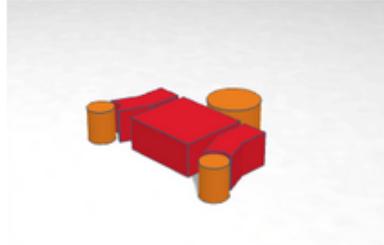
Tinkercad @tinkercad

Frantic Sango 8일 전 비공개

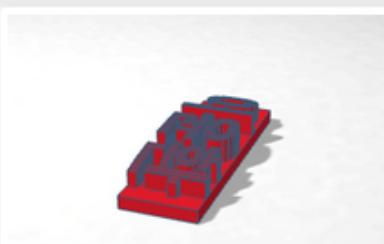
Powerful Borwo 19일 전 비공개

Powerful Tumelo 19일 전 비공개

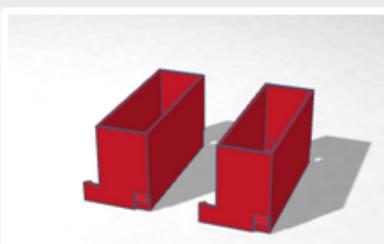












Dashboard | Tinkercad + X

https://www.tinkercad.com/#/

검색

TINKERCAD FOR... 갤러리 COMMUNITY 알아보기 교육

디자인 Circuits 학습

프로젝트

+ 프로젝트 생성 트윗 팔로우

Tinkercad @tinkercad Today's #Tinker2SDAY - @andytaylored makes some #Hellboy horns! #3DHalloween fb.com/tinkercad

9시간

We were filming this print and... didn't notice this until we reviewed

Frantic Sango 8일 전 비공개 Powerful Borwo 19일 전 비공개 Powerful Tumelo 19일 전 비공개

Glorious Uusam 3달 전 비공개 Brave Elzing 3달 전 비공개 Arduino_Case 4달 전 비공개

관련 프로젝트

관련 커뮤니티

관련 학습

관련 디자인

관련 Circuits

관련 학습

관련 프로젝트

관련 트윗

관련 팔로우

관련 Tinkercad

관련 Today's #Tinker2SDAY - @andytaylored makes some #Hellboy horns! #3DHalloween fb.com/tinkercad

관련 9시간

관련 We were filming this print and... didn't notice this until we reviewed

Dashboard | Tinkercad

https://www.tinkercad.com/#/

TINKERCAD FOR... 갤러리 COMMUNITY 알아보기 교육

디자인 Circuits 학습

프로젝트

Project 1

+ 프로젝트 생성

트윗 팔로우

Tinkercad @tinkercad

Today's #Tinker2SDAY -
@andytaulored makes some
#Hellboy horns! #3DHalloween
fb.com/tinkercad

9시간

Frantic Sango 8일 전 비공개

Powerful Borwo 19일 전 비공개

Powerful Tumelo 19일 전 비공개

Glorious Uusam 3달 전 비공개

Brave Elzing 3달 전 비공개

Arduino_Case 4달 전 비공개

Dashboard | Tinkercad +

https://www.tinkercad.com/#/?type=all&collection=projects&id=5o4Qzgnl

검색

TINKERCAD FOR... 갤러리 COMMUNITY 알아보기 교육

Project 1

설명 추가...

Create | ▾

디자인 검색...

디자인

Circuits

학습

프로젝트

Project 1

+ 프로젝트 생성

트윗 팔로우

The screenshot shows the Tinkercad dashboard interface. At the top, there's a header with the Tinkercad logo, a search bar, and various navigation links like 'Dashboard', 'TINKERCAD FOR...', 'COMMUNITY', '알아보기', and '교육'. Below the header, a sidebar on the left lists categories: '디자인', 'Circuits', '학습', and '프로젝트'. Under '프로젝트', a blue-highlighted button labeled 'Project 1' is visible, along with a '+ 프로젝트 생성' (Create Project) button. The main area of the dashboard is titled 'Project 1' and contains a placeholder for a description ('설명 추가...'), a 'Create' button with a dropdown arrow, and a search bar labeled '디자인 검색...'.

Dashboard | Tinkercad + X

https://www.tinkercad.com/#/?type=all&collection=projects&id=5o4Qzgn1 C ⚡ 검색 ☆ ⌂ ⌄ ⌅ ⌆ ⌈ ⌉ ⌋ ⌃

TINKERCAD FOR... 갤러리 COMMUNITY 알아보기 교육

TINKERCAD

yoonani72

디자인 검색...

디자인 Circuits 학습 프로젝트 Project 1 프로젝트 생성 트윗 팔로우

Project 1

설정...
프로젝트 삭제

Create | ▾

The screenshot shows the Tinkercad dashboard with a project titled "Project 1". The interface includes a sidebar with categories like Design, Circuits, Lessons, and Projects, and a main area with a search bar and a "Create" button.

Dashboard | Tinkercad +

https://www.tinkercad.com/#/?type=all&collection=projects&id=5o4Qzgn1

검색

특성

이름

Hallym Maker

설명

매주 수요일 한림대학교 메이커 과정에서 사용하는 프로젝트입니다.

디자인

디자인

Circu

학습

취소

변경 사항 저장

프로젝트

Project 1

+ 프로젝트 생성

트윗 팔로우

The screenshot shows a modal dialog box from the Tinkercad interface. The dialog is titled '특성' (Properties) and contains three main sections: '이름' (Name) with the value 'Hallym Maker', '설명' (Description) with the value '매주 수요일 한림대학교 메이커 과정에서 사용하는 프로젝트입니다.', and a '취소' (Cancel) button. Below the '취소' button is a green '변경 사항 저장' (Save changes) button. The background of the dialog shows the Tinkercad dashboard with a sidebar containing tabs like '디자인', '디자인', 'Circu', '학습', and a '프로젝트' section showing 'Project 1'. The overall interface is in Korean.

모델링 시작하기

Dashboard | Tinkercad + X

https://www.tinkercad.com/#/?type=all&collection=projects&id=5o4Qzgn1

검색

TINKERCAD FOR... 갤러리 COMMUNITY 알아보기 교육

Hallym Maker

매주 수요일 한림대학교 메이커 과정에서 사용하는 프로젝트입니다.

Create | ▾

3D Design

Circuit 새 디자인 작성

디자인 검색...

디자인 Circuits 학습

프로젝트

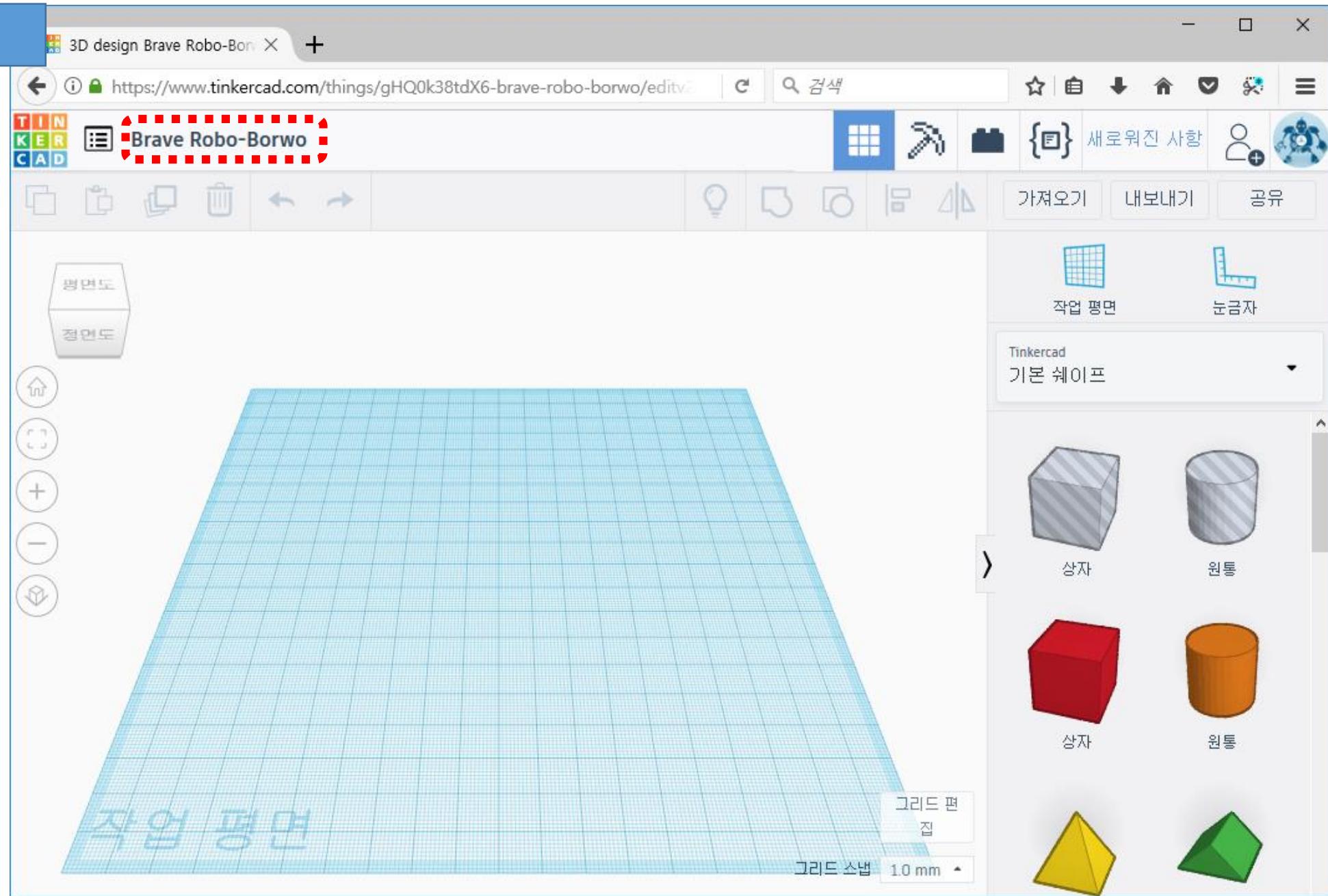
Hallym Maker

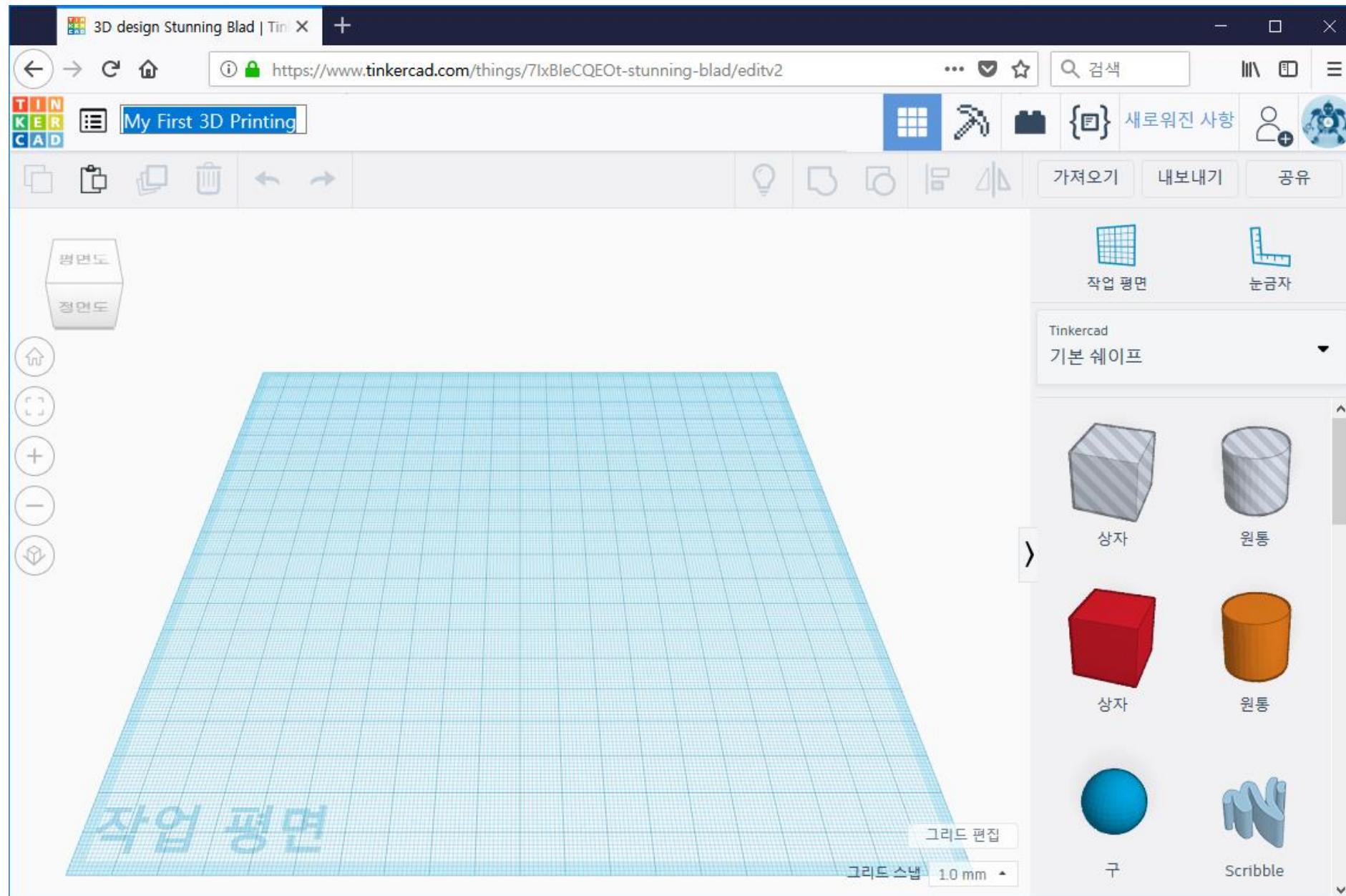
+ 프로젝트 생성

트윗 팔로우

The screenshot shows the Tinkercad web interface. At the top, there's a blue header bar with the text "모델링 시작하기". Below it is the browser's address bar with the URL "https://www.tinkercad.com/#/?type=all&collection=projects&id=5o4Qzgn1". The main content area displays a project titled "Hallym Maker" by user "yoonani72". The project description states it's used in a weekly maker class at Hallym University. A "Create" button with a dropdown menu is highlighted with a red dashed box. The dropdown menu contains "3D Design" and "Circuit" options, with "새 디자인 작성" (Create New Design) visible as a tooltip. On the left side, there's a sidebar with categories: "디자인", "Circuits", "학습", and "프로젝트". Under "프로젝트", the "Hallym Maker" project is listed, and below it is a button for "프로젝트 생성". There are also "트윗" (Tweet) and "팔로우" (Follow) buttons at the bottom of the sidebar.

이름 바꾸기





모델링 파일속성

3D design Brave Robo-Borwo X +

https://www.tinkercad.com/things/gHQ0k38tdX6-brave-robo-borwo/editv2

Brave Robo-Borwo

My Designs

+ New Design

Current

Brave Robo-Borwo
6 seconds ago

계속 편집

Recent designs

Frantic Sango
10/24/2017

Powerful Borwo
10/13/2017

Powerful Tumelo
10/10/2017

3D modeling interface showing the 'Brave Robo-Borwo' project in Tinkercad. The interface includes a toolbar with various tools like selection, move, rotate, and scale. On the left, there's a sidebar with icons for 'TIN', 'KEY', 'CAP', '평면도' (Plan View), '정면도' (Front View), and a camera icon. The right side features a library of geometric shapes like cylinders and pyramids, labeled in Korean. The main workspace shows a 3D model of a robot head.

3D design Brave Robo-Bon X

<https://www.tinkercad.com/things/gHQ0k38tdX6-brave-robo-borwo/editv2>

Brave Robo-Borwo

My Designs

+ New Design

Current

디자인 특성

Name: My first 3D Modeling

Visibility:

개인 사용자 본인과 사용자가 함께 공유하는 사람들만 볼 수 있습니다.

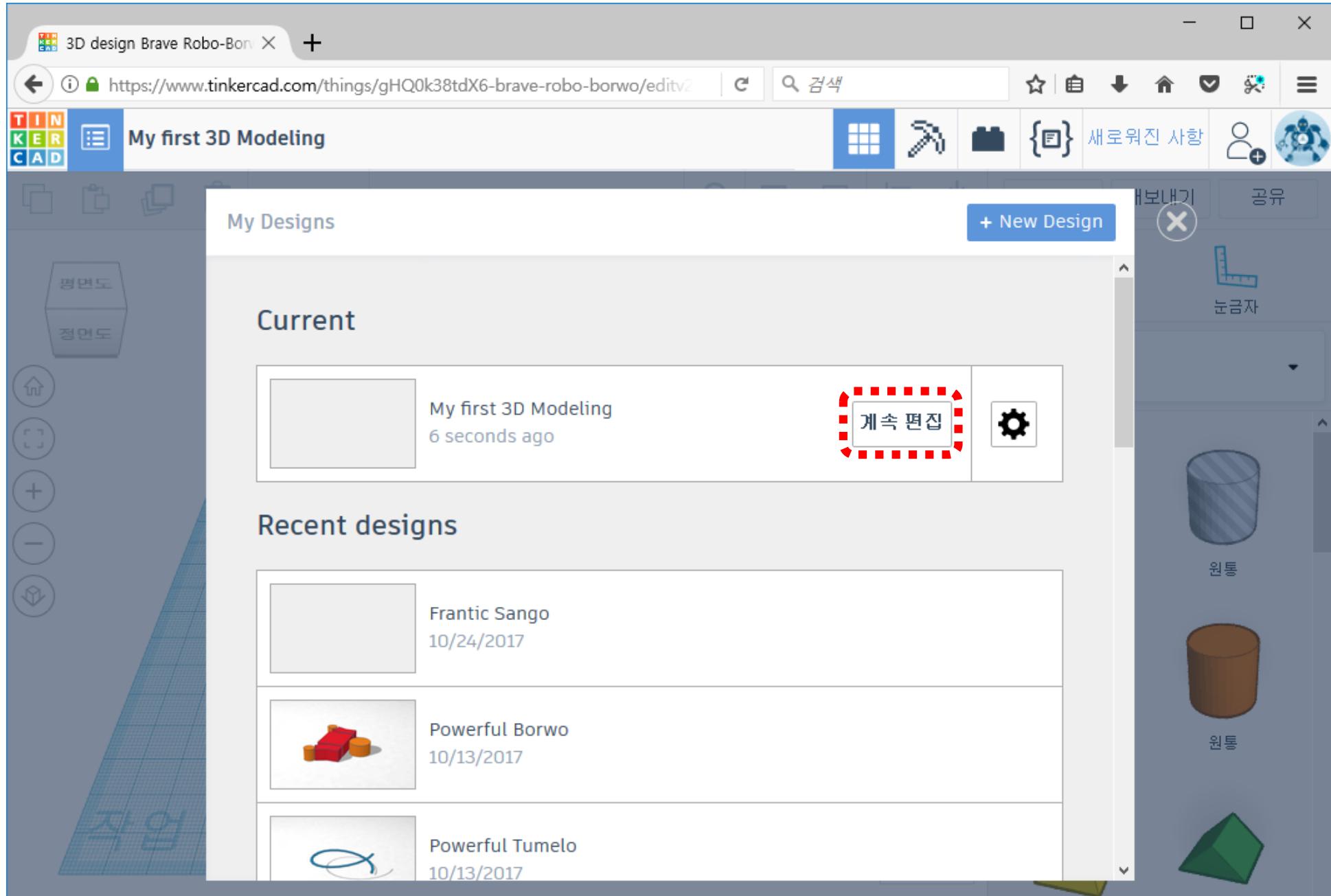
공용 모든 사람들이 이 설계를 보고 이 설계에 대해 알아볼 수 있습니다.

License: Attribution-ShareAlike 3.0

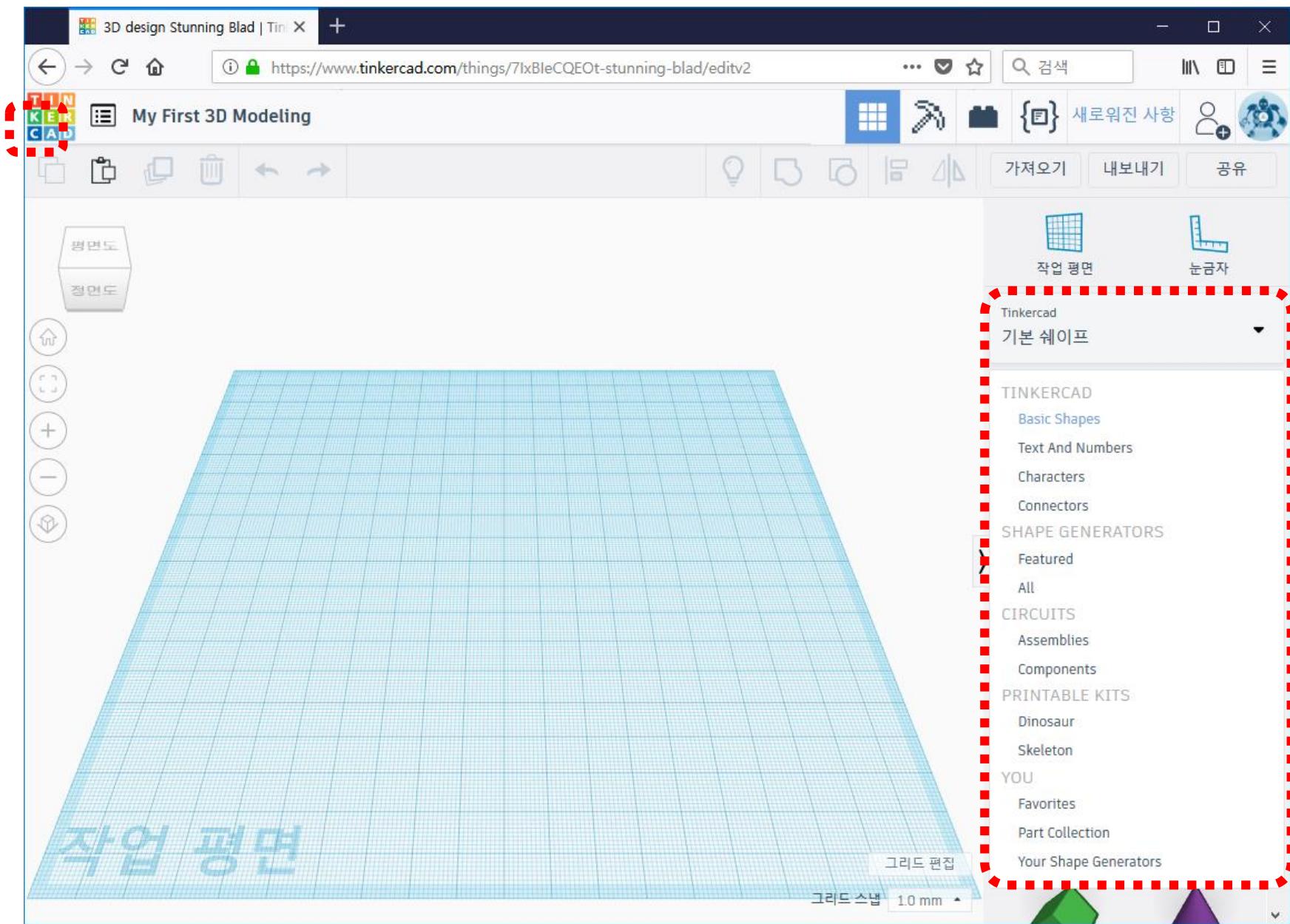
취소

변경 사항 저장

The Tinkercad interface is shown, displaying a 3D model of a robot named "Brave Robo-Borwo". The workspace shows a grid and some basic geometric shapes. A sidebar on the right contains icons for a ruler, cylinder, and other tools, with Korean labels: "평면도" (Perspective View), "정면도" (Front View), "Home", "+", "-", and a camera icon. The main menu bar includes icons for file, search, and account.



쉐이프 이용하기



Tinkercad

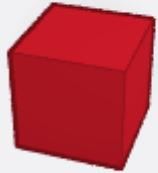
기본 쉐이프



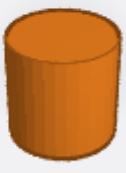
상자



원통



상자



원통



구



Scribble



지붕



원추



원형 지붕



문자



쐐기



피라미드



반구



폴리곤



포물면



토러스



별



별



20면체



링

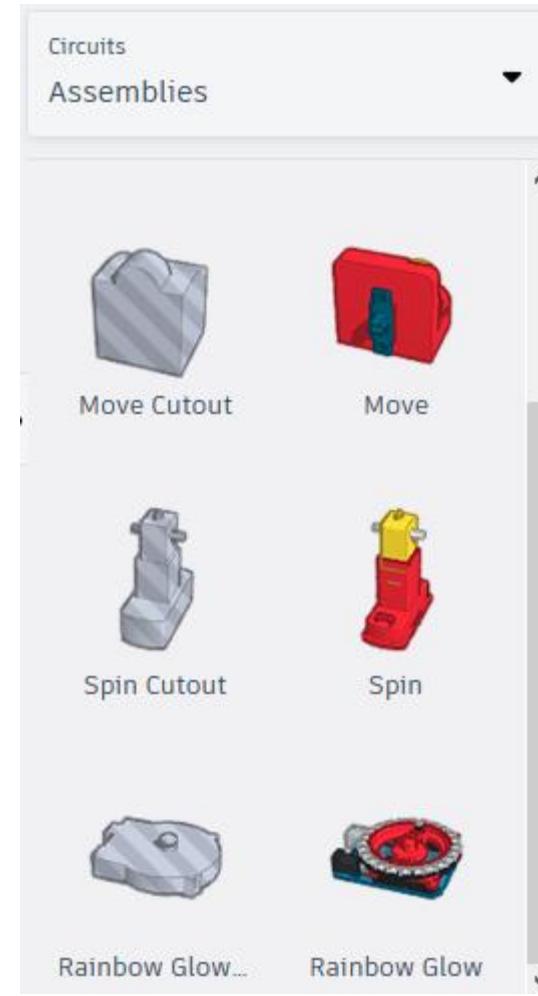
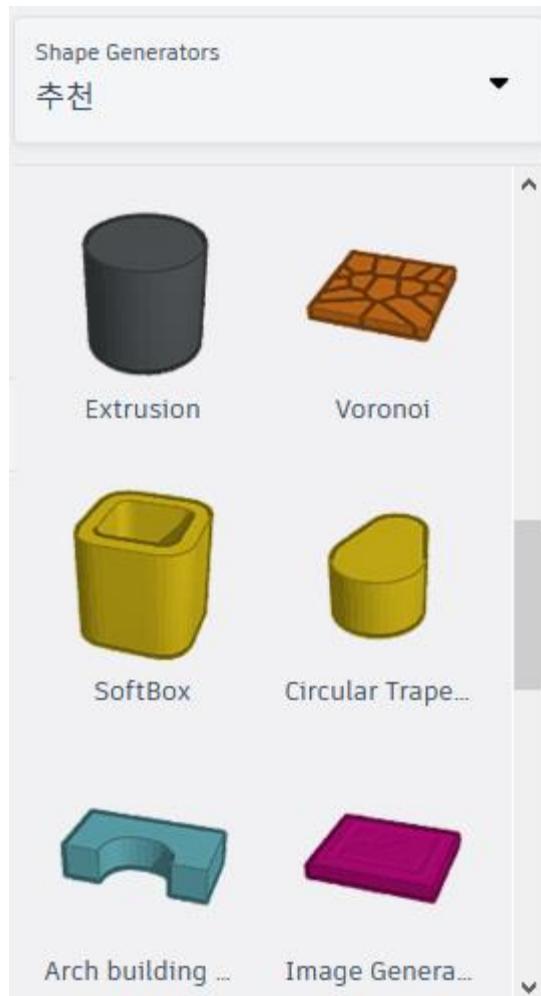


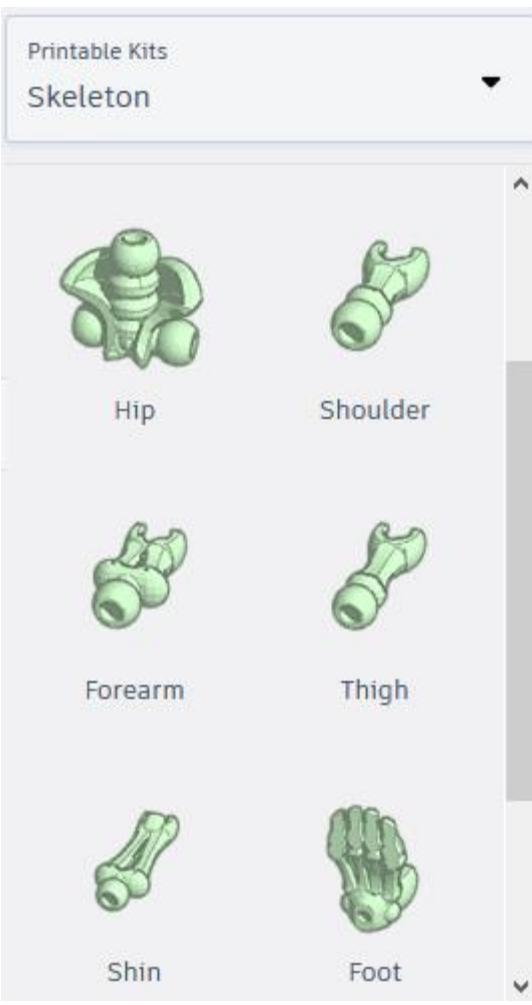
주사위

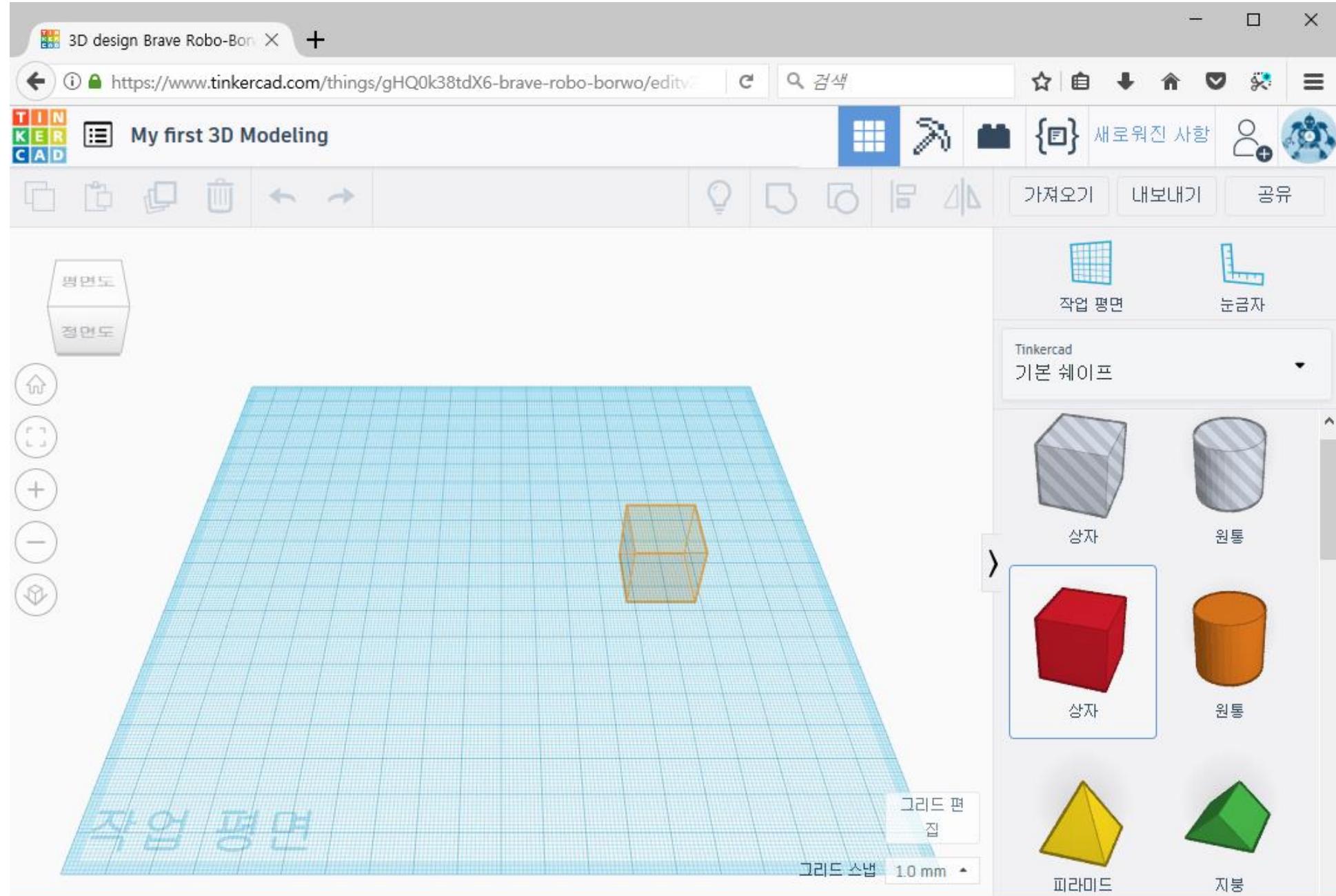


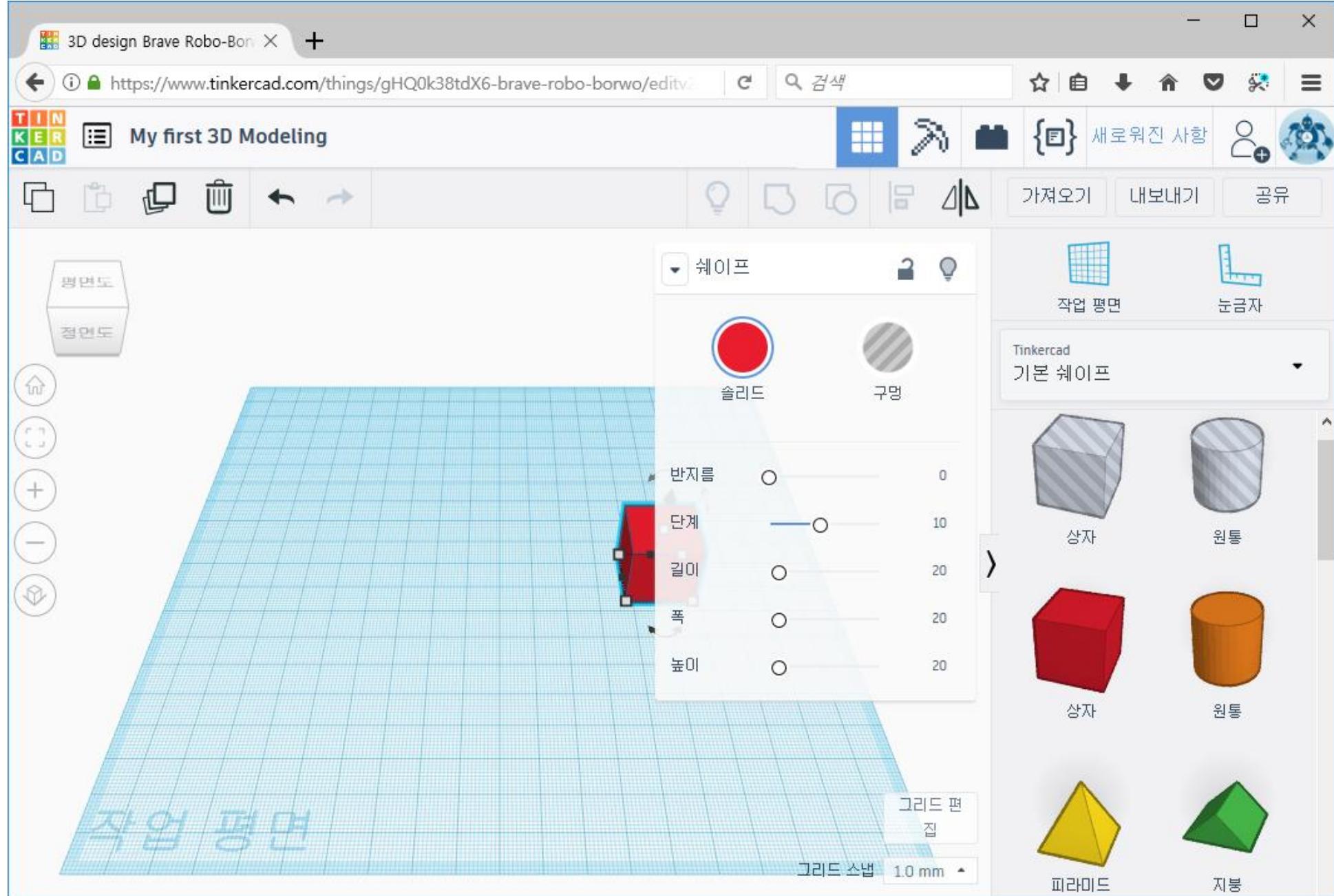
다이아몬드



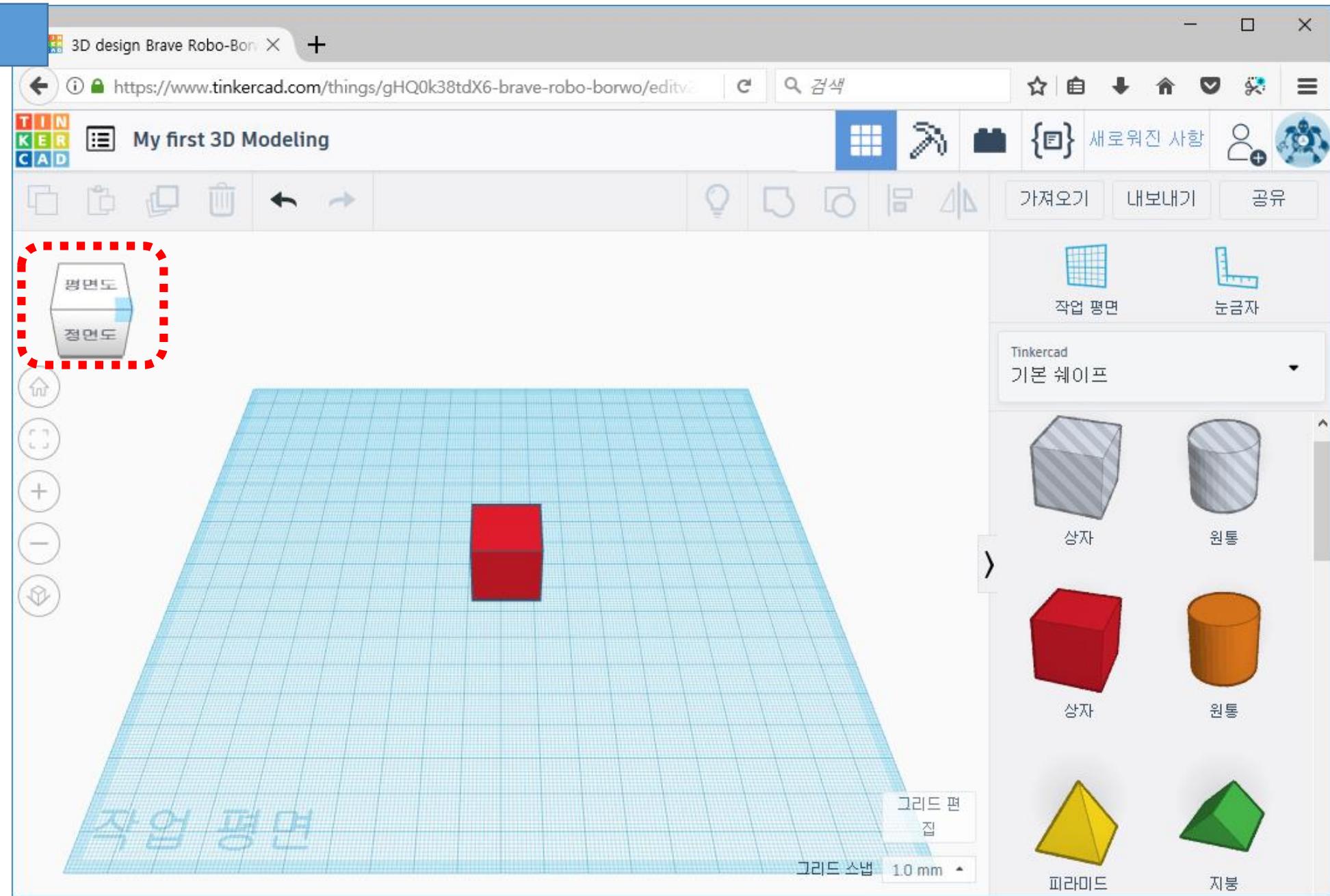


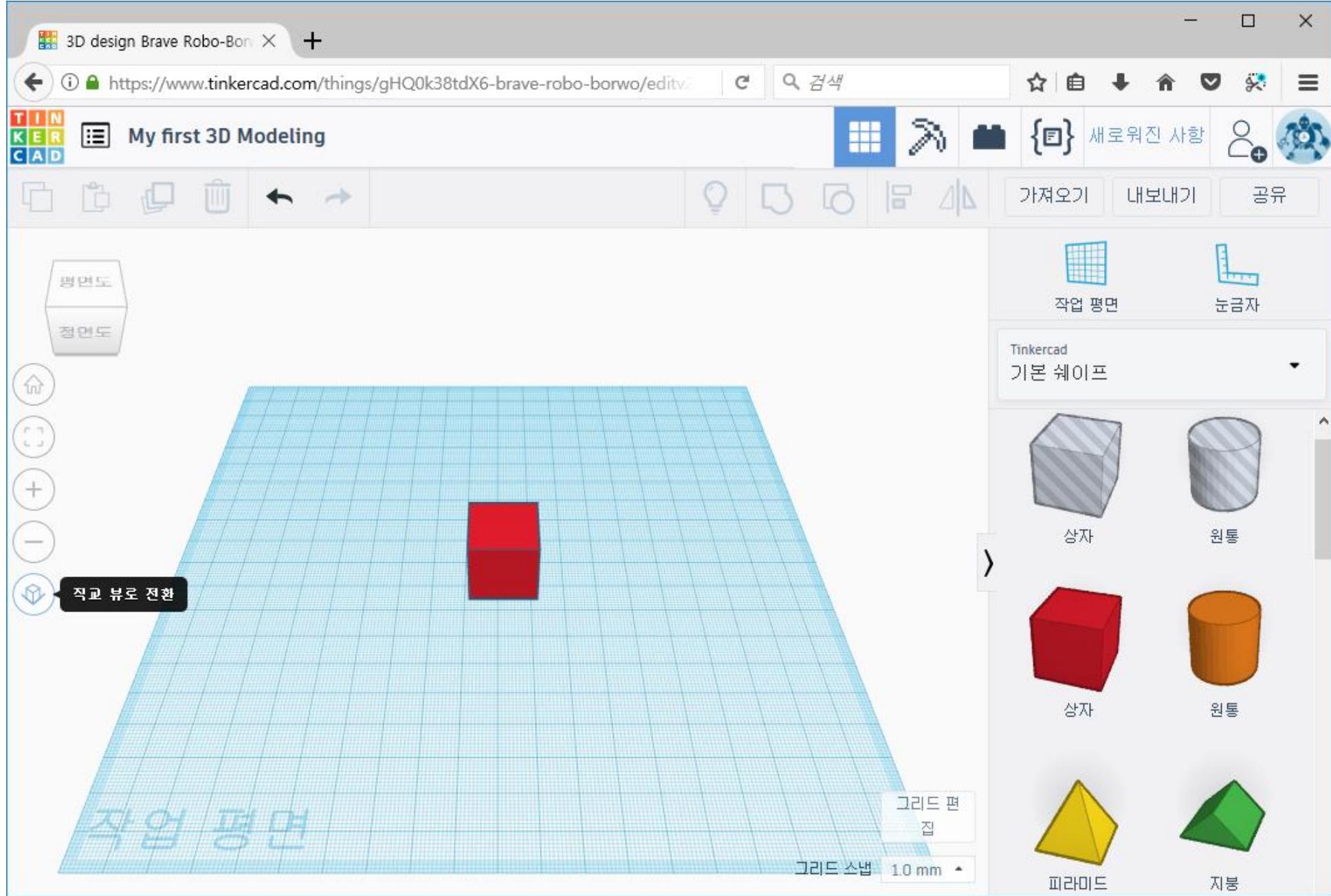




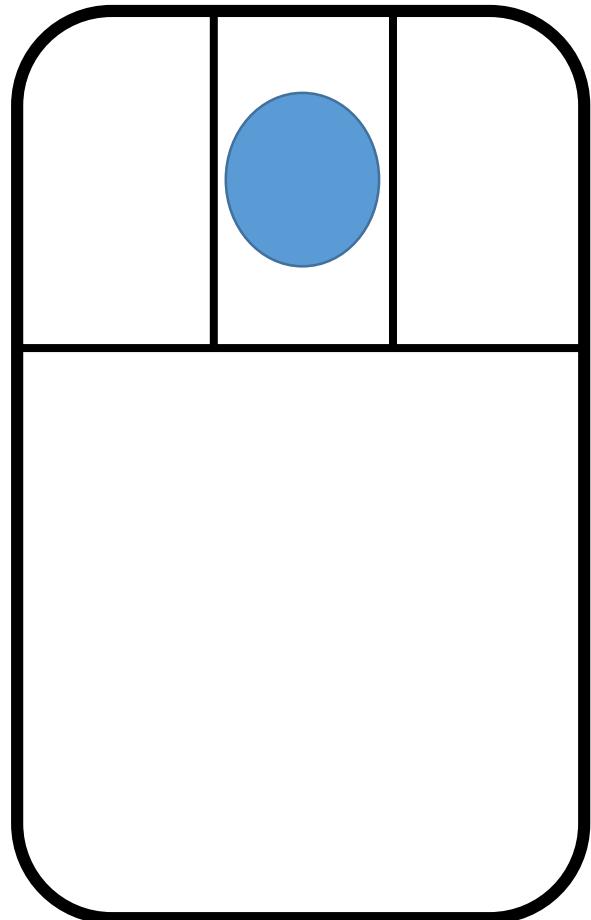


카메라 시점

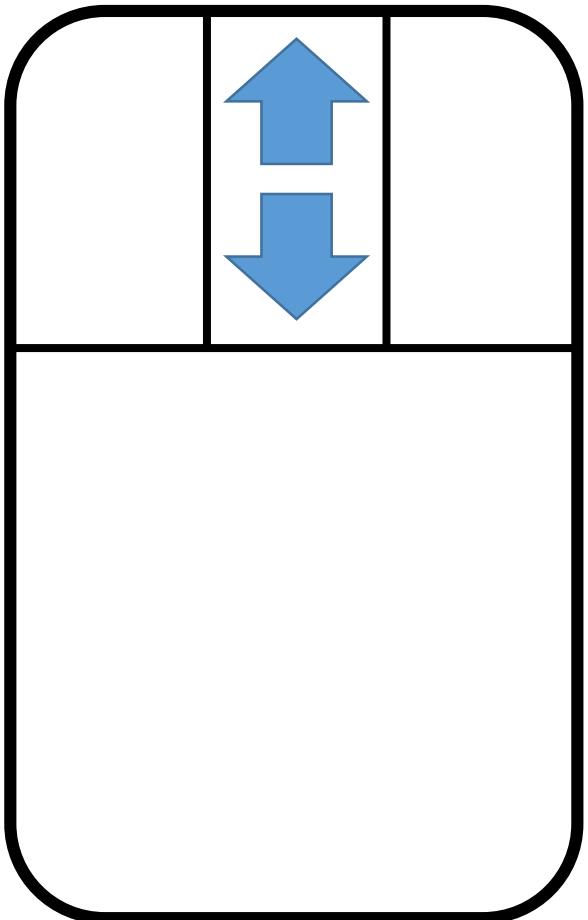




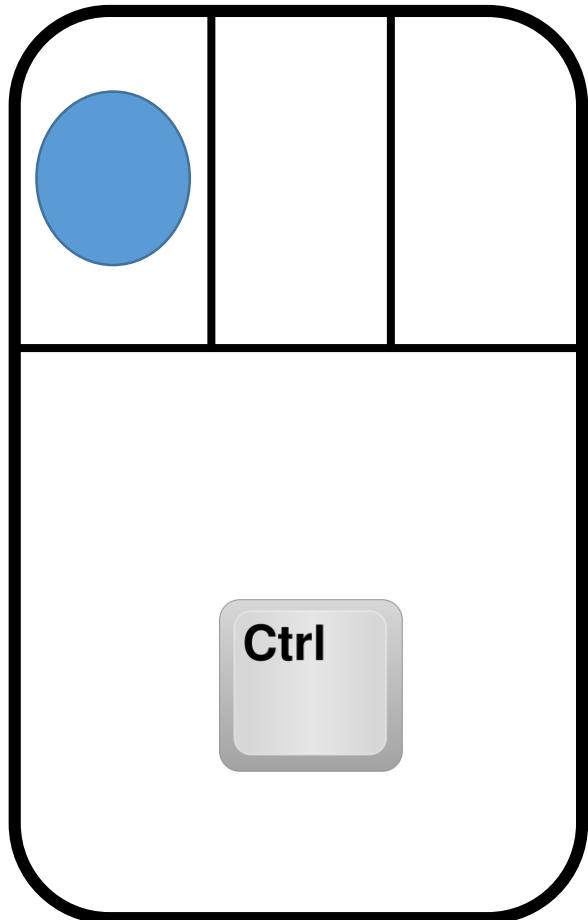
마우스를 이용한 Camera 이동



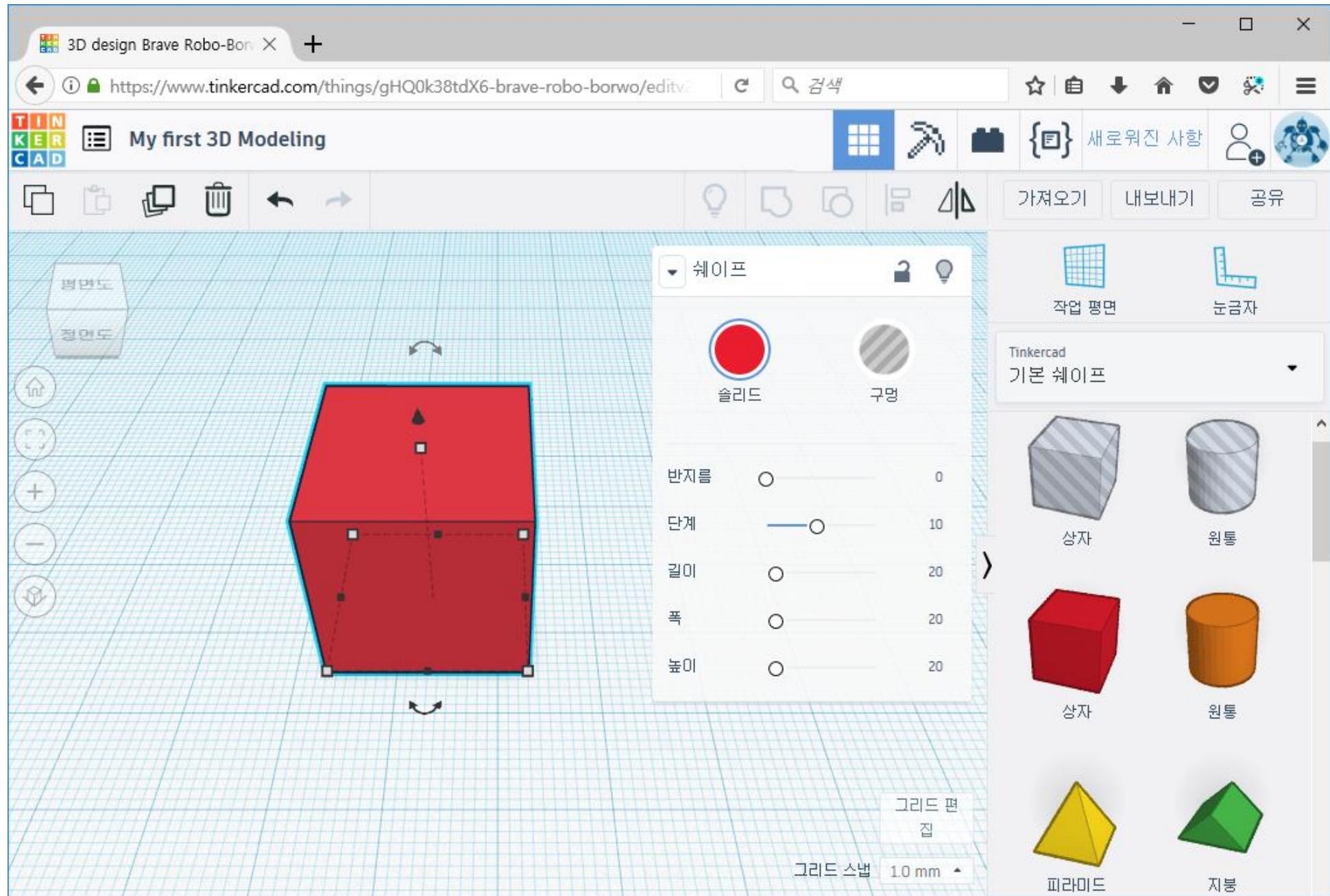
카메라 이동하기



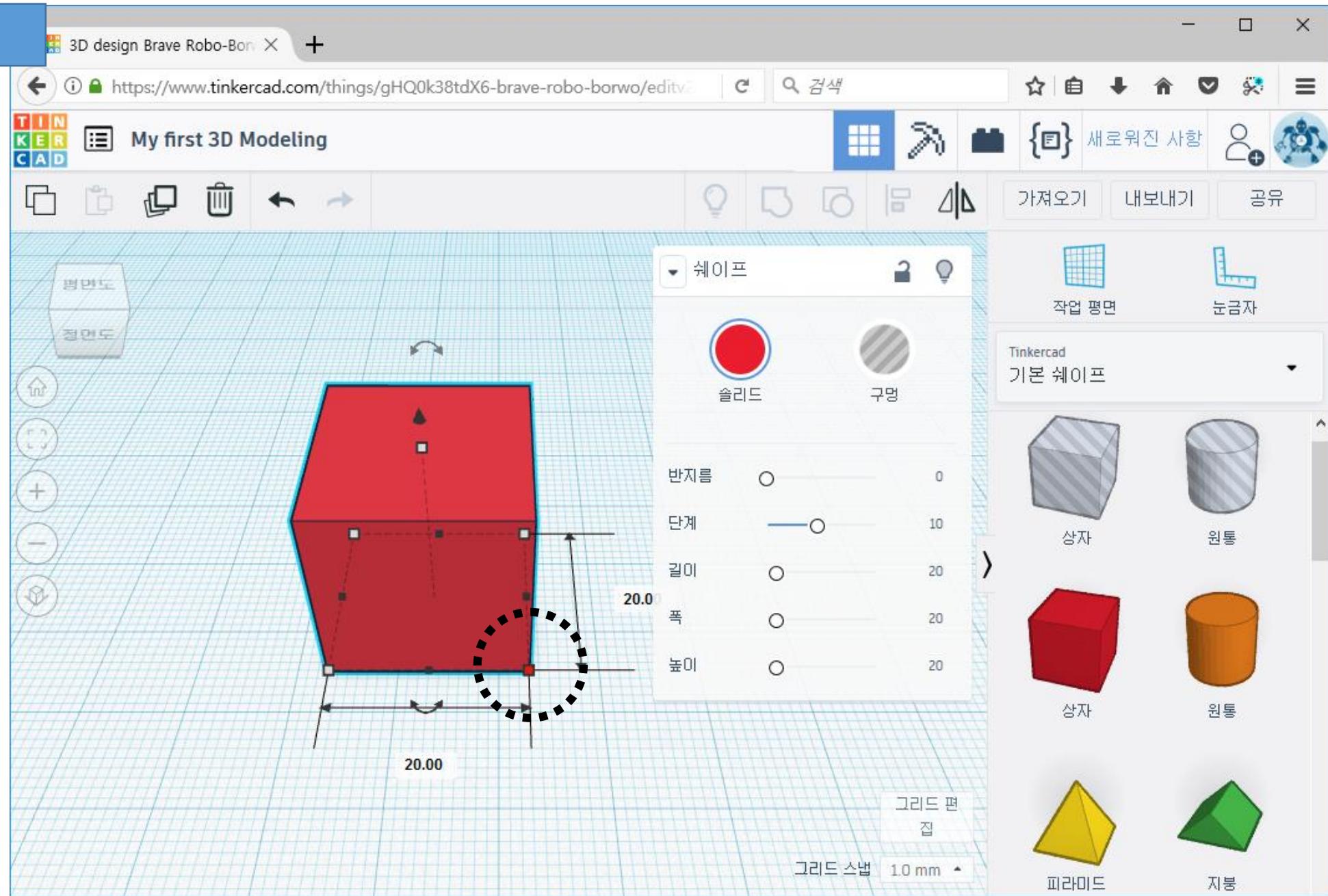
확대 / 축소

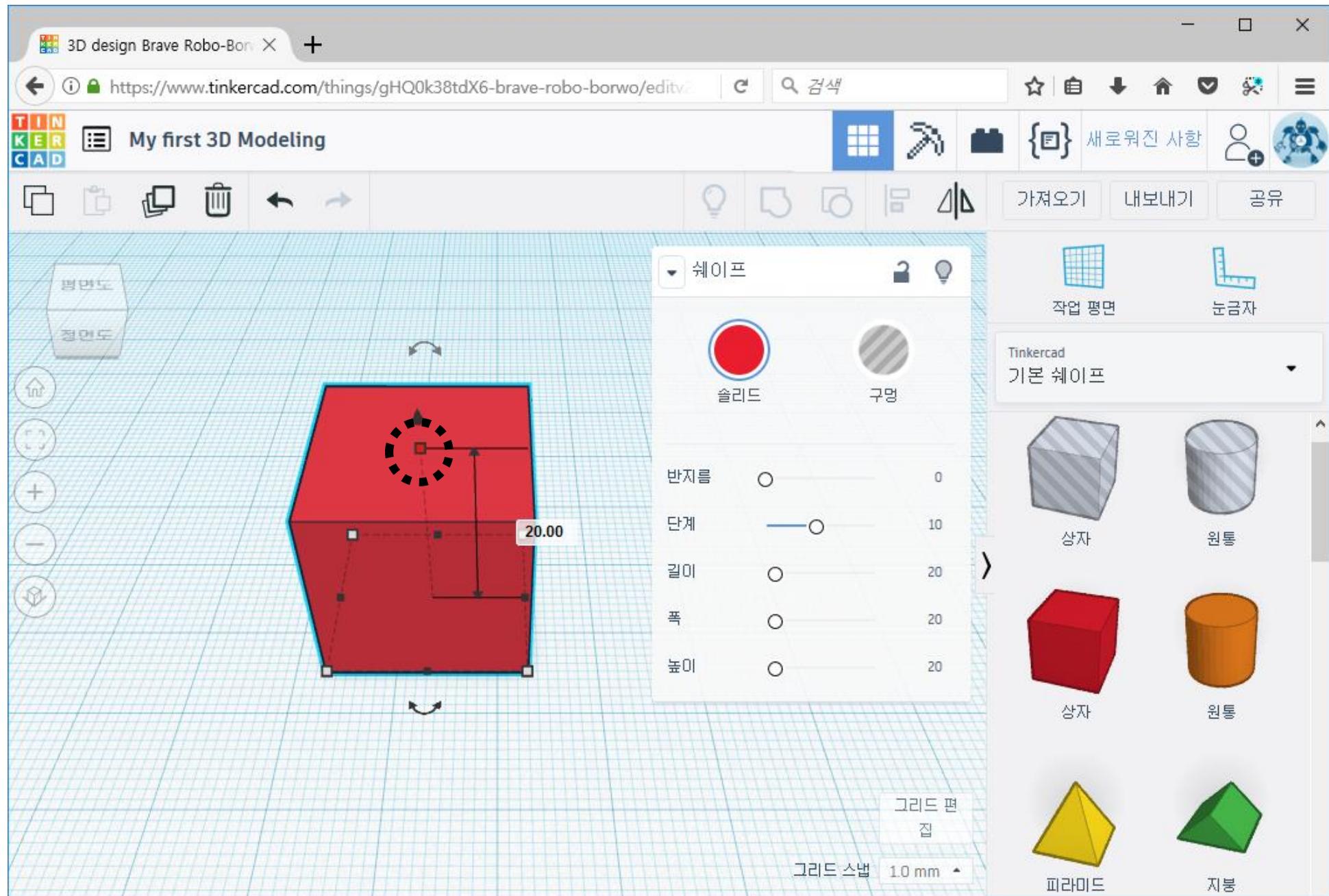


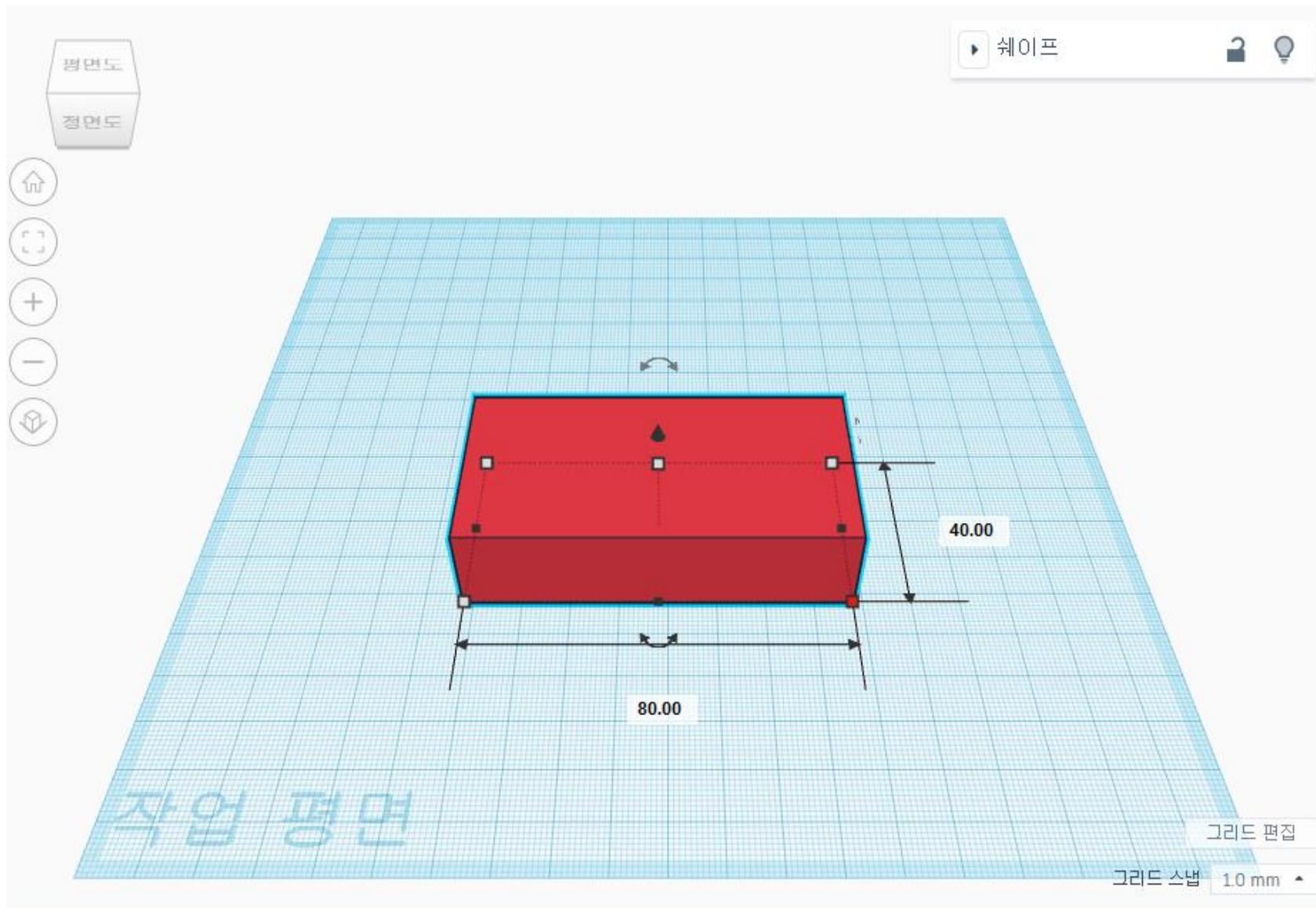
카메라 이동하기



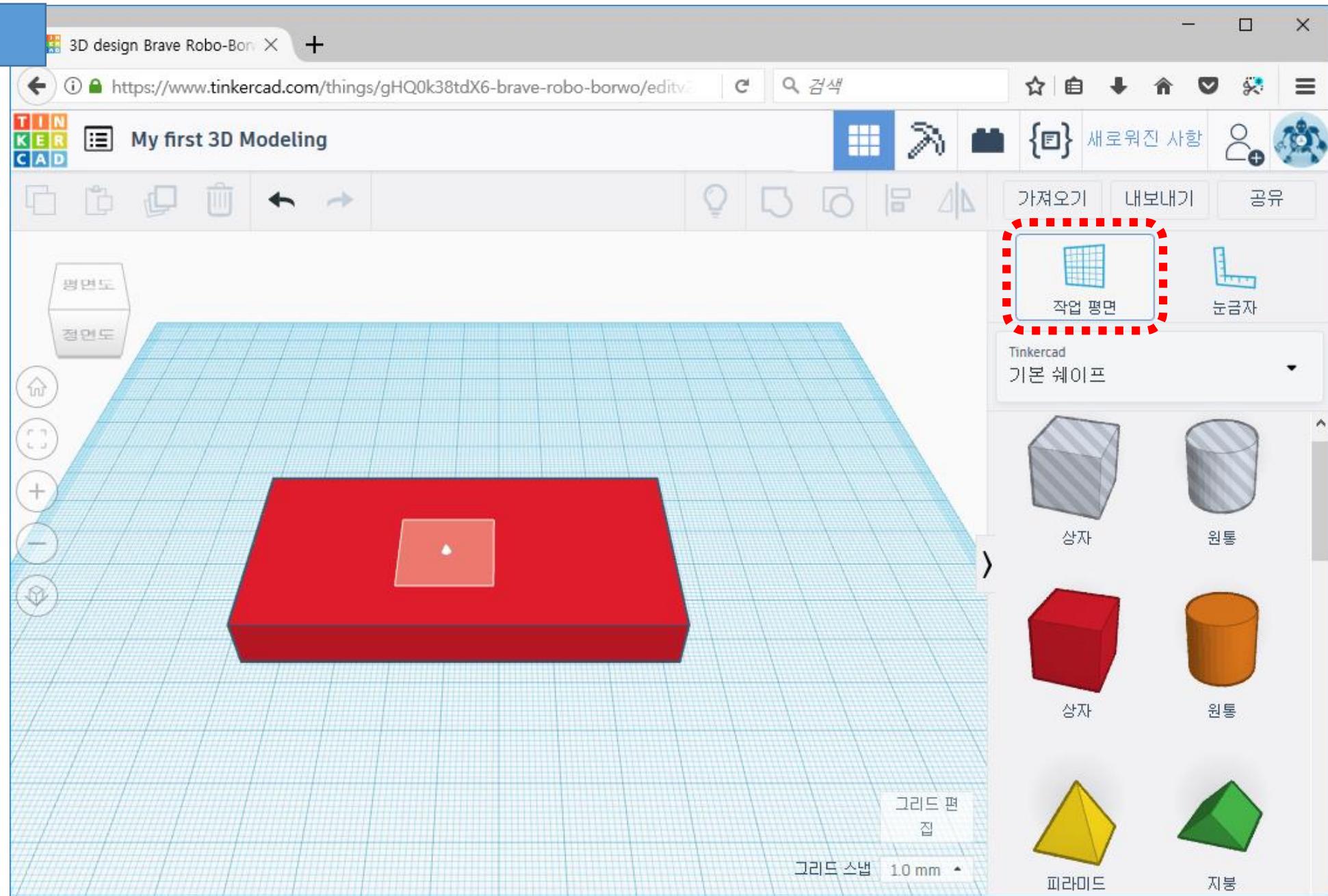
크기 조정



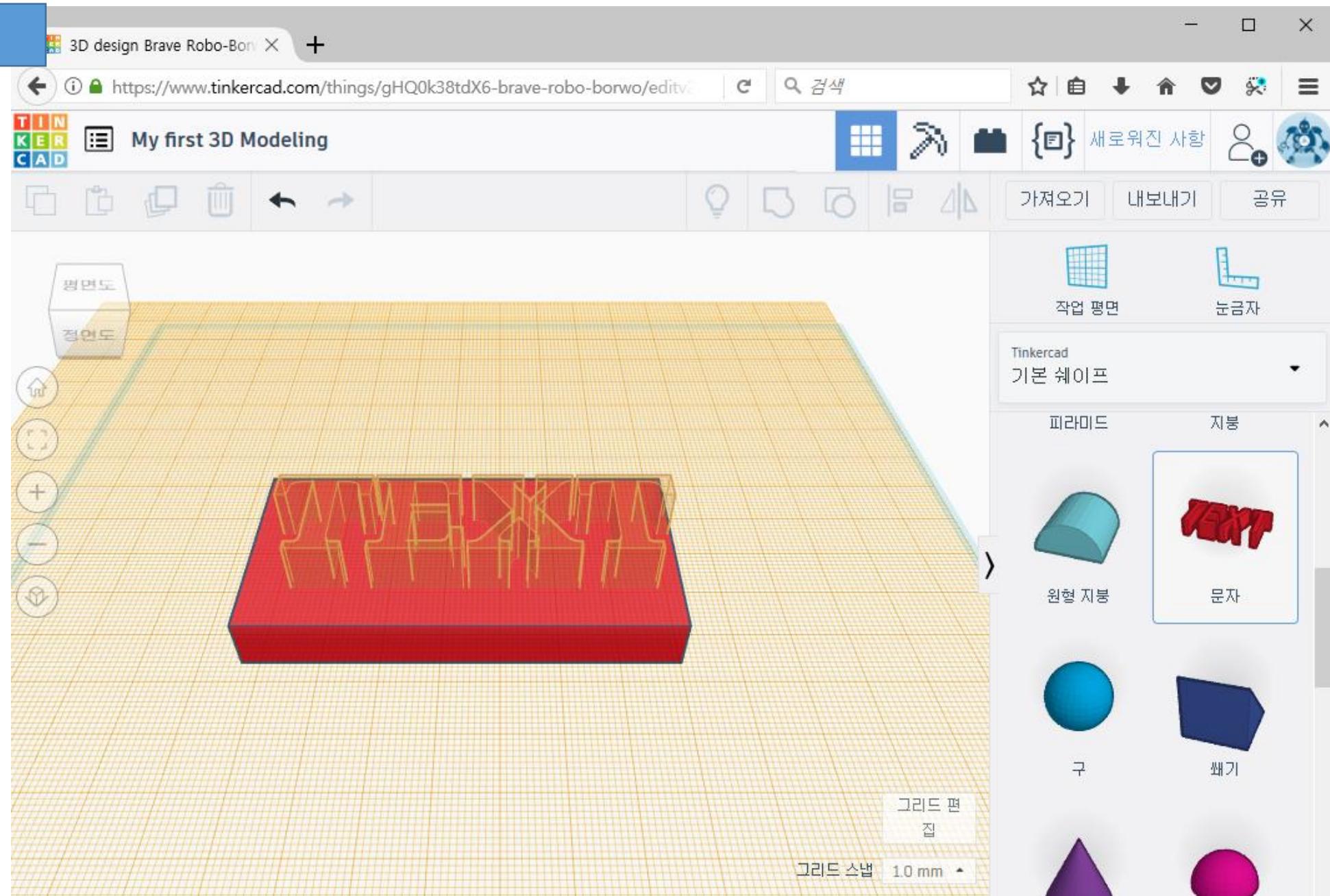


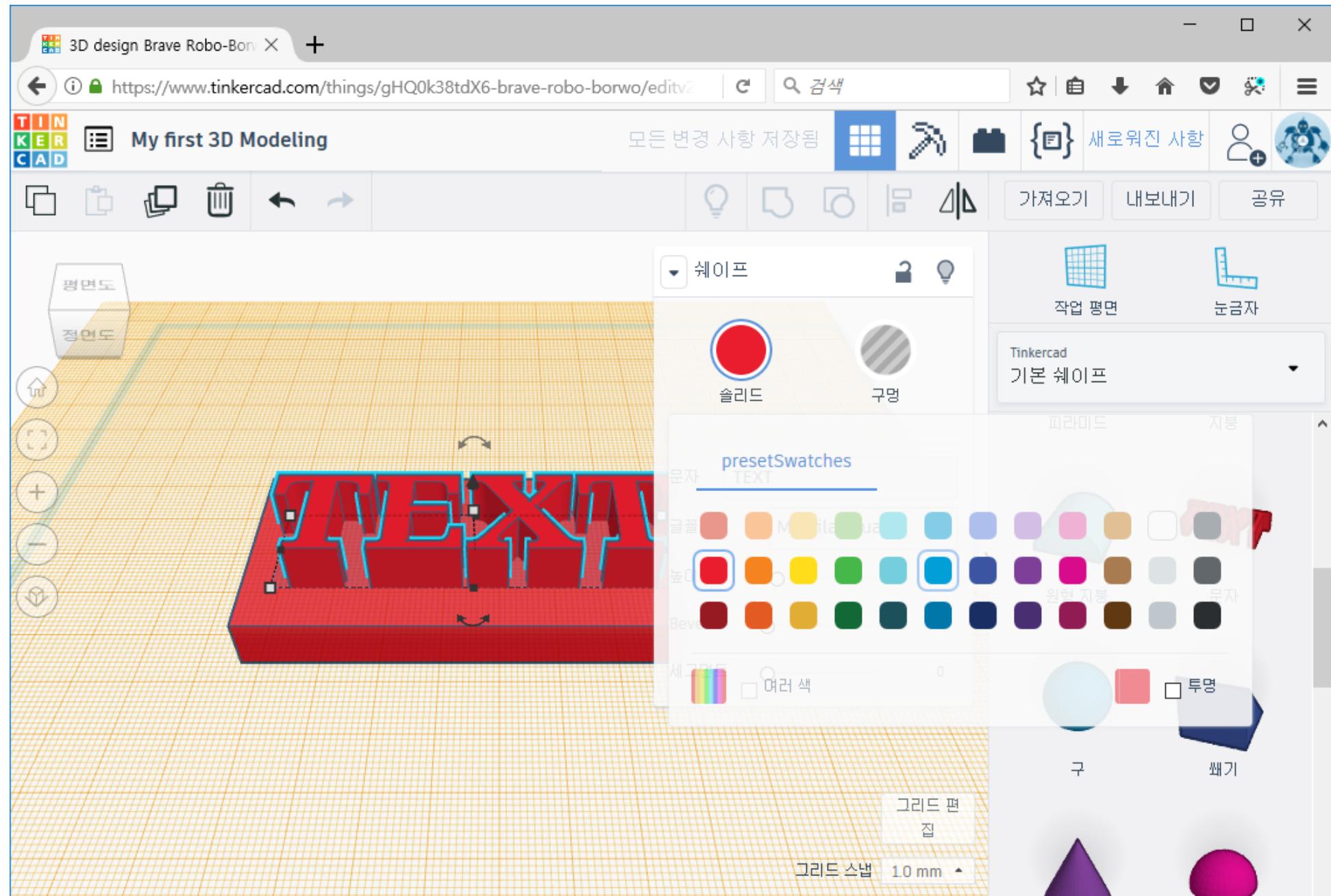


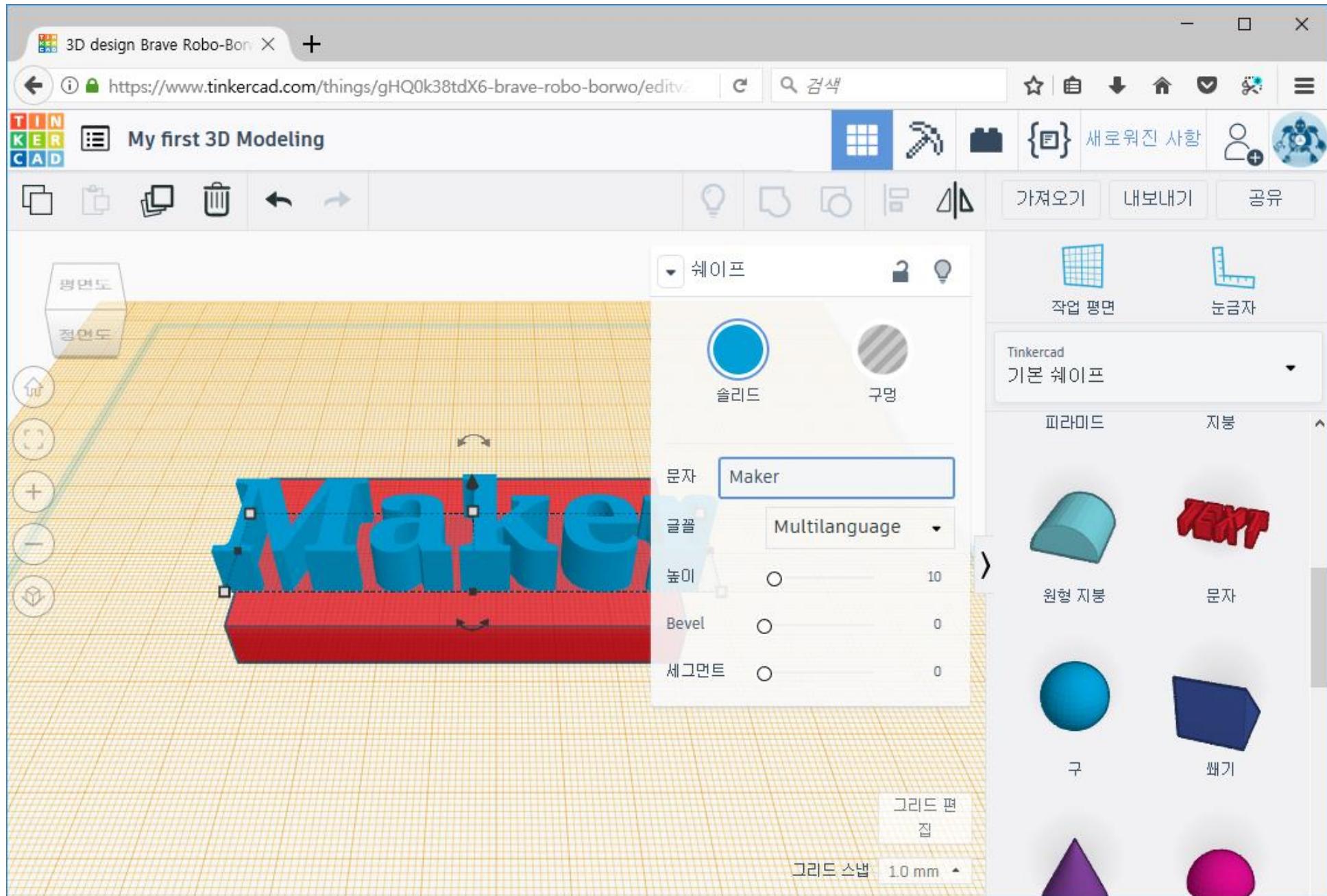
작업평면

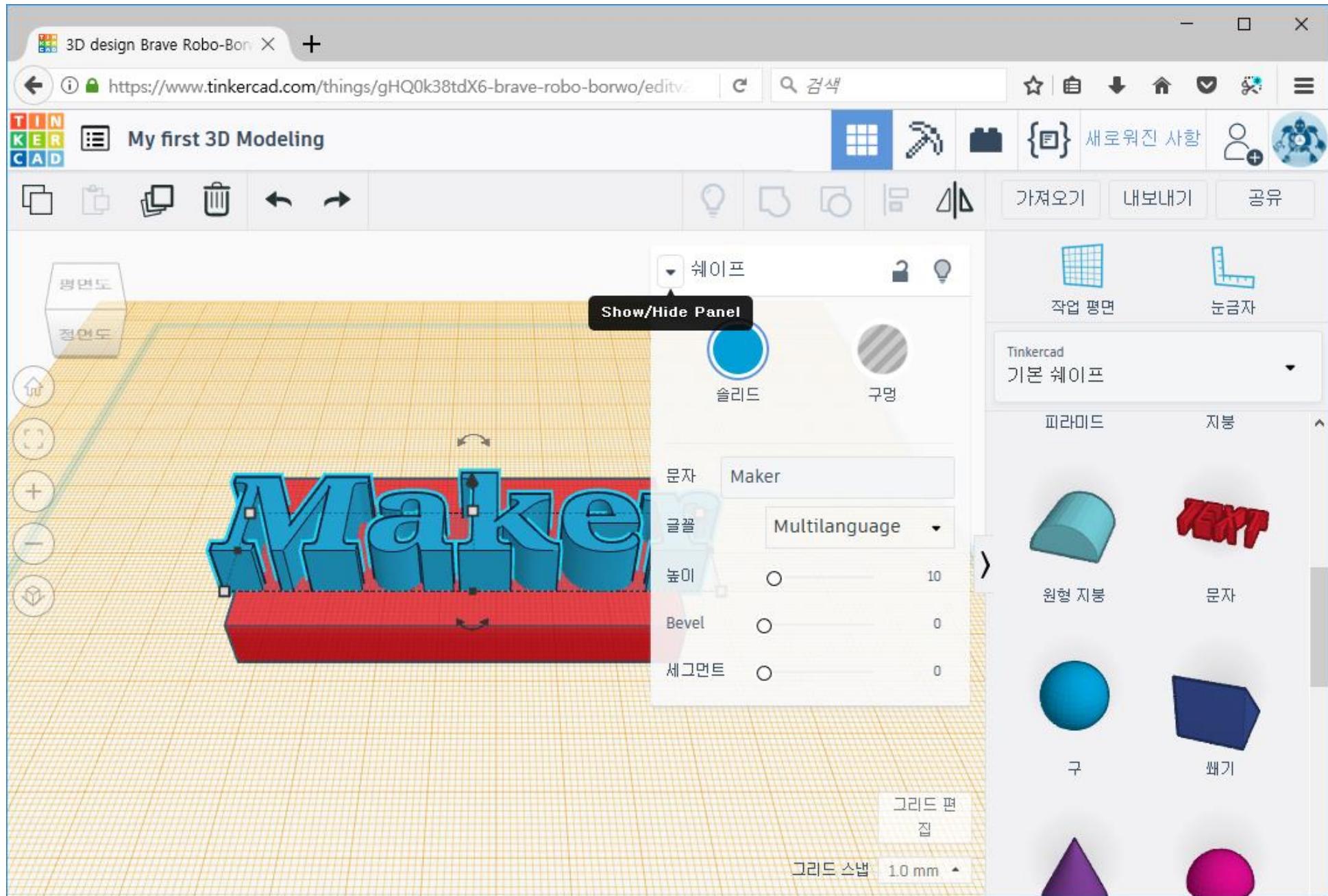


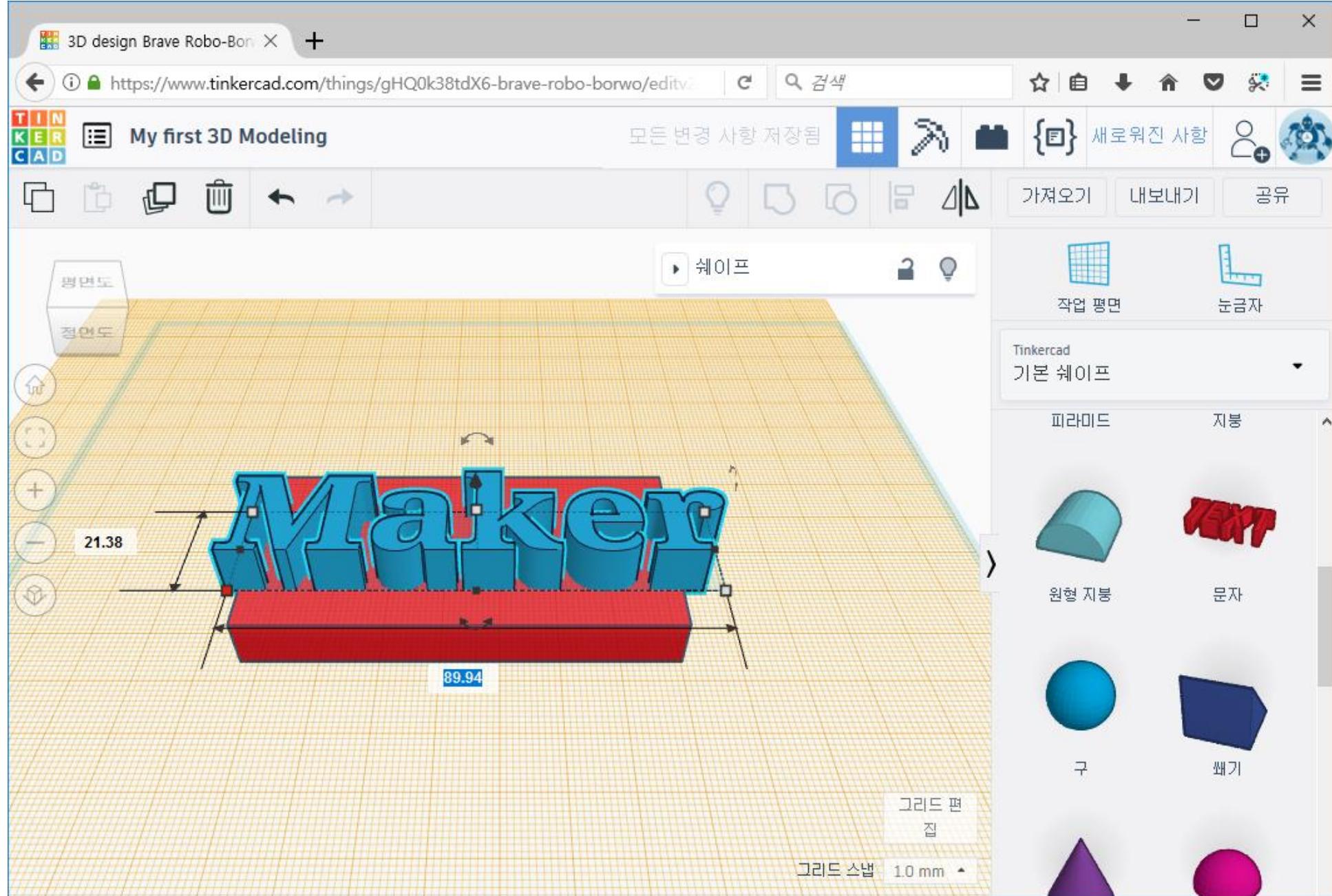
문자 넣기

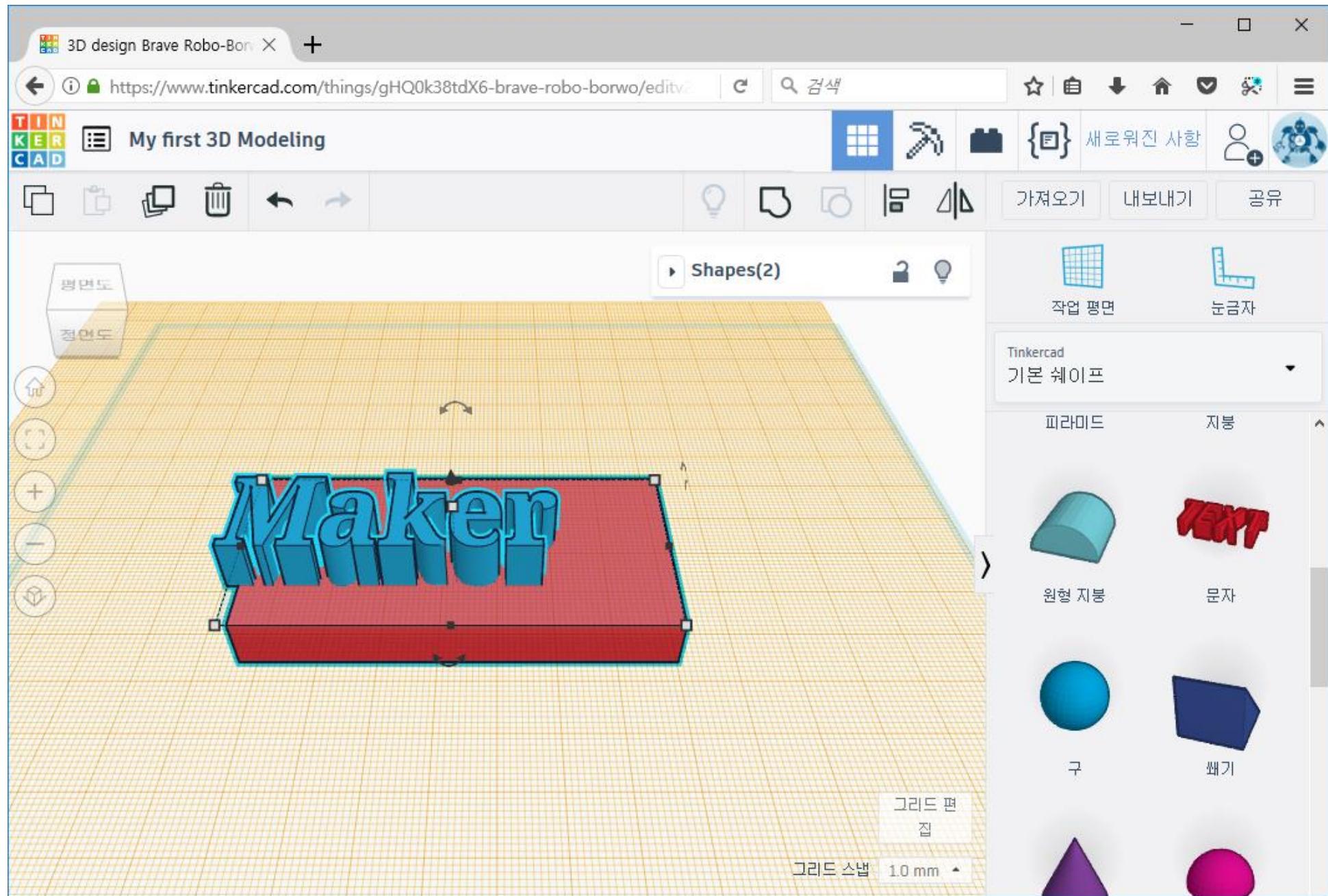




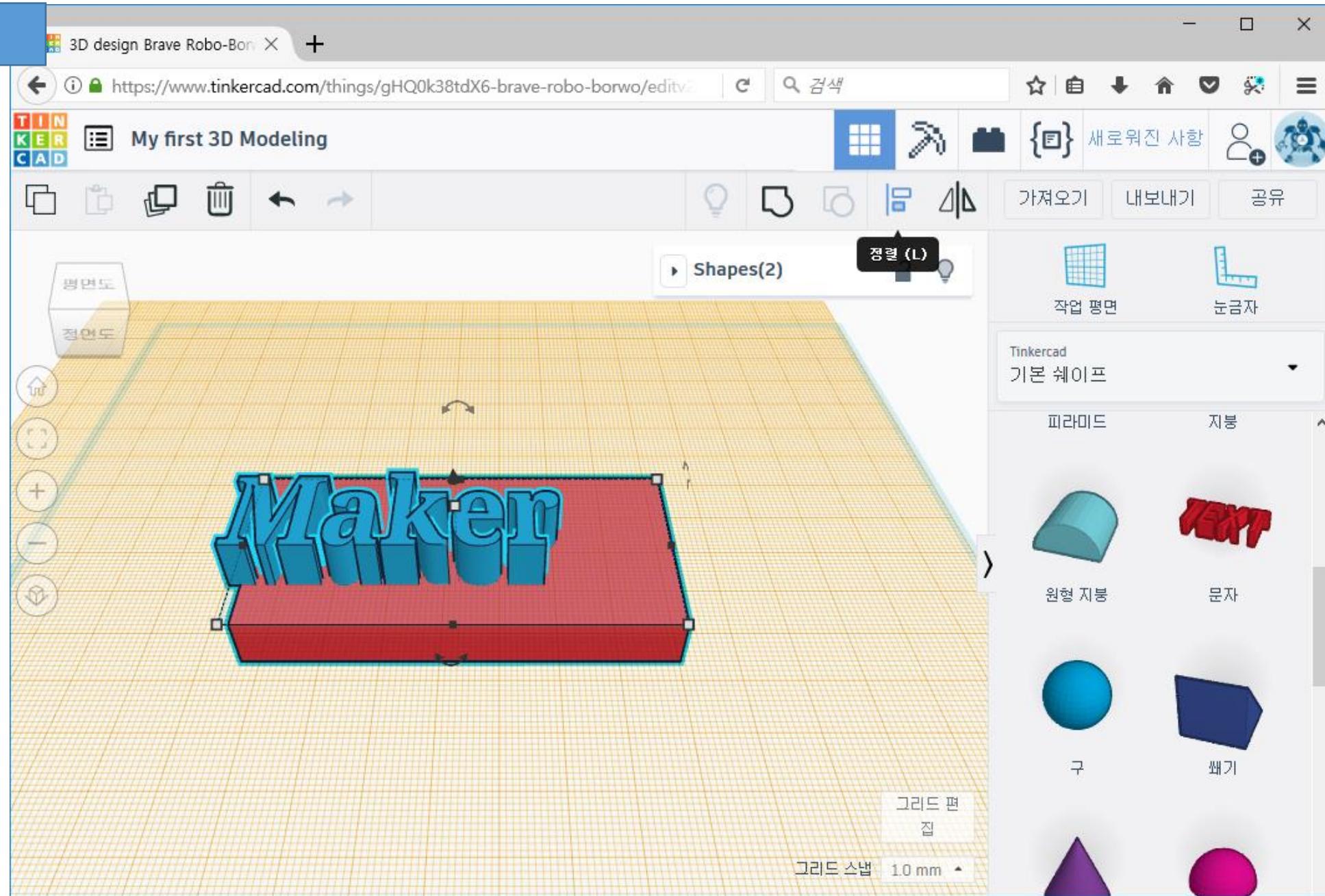


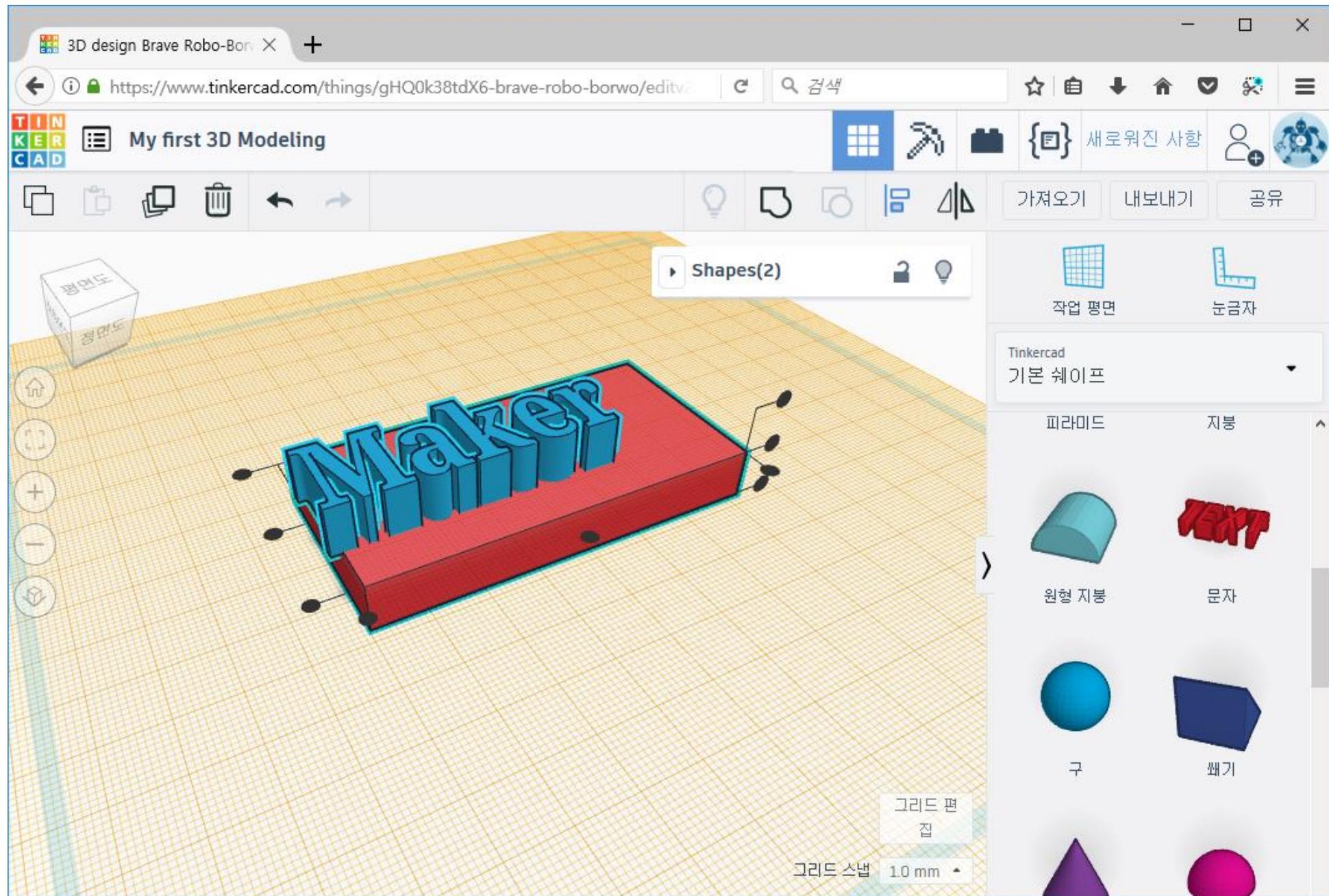


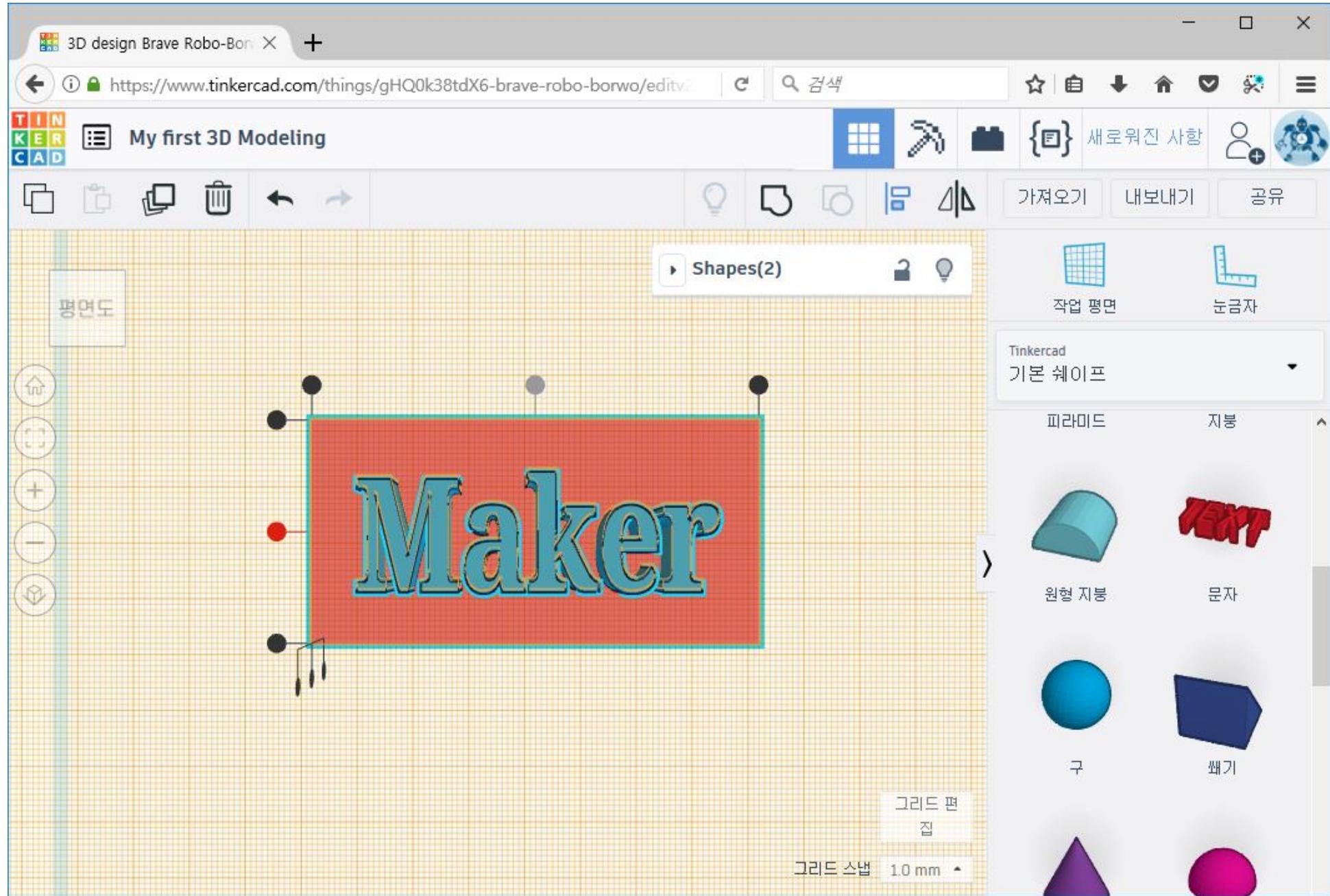




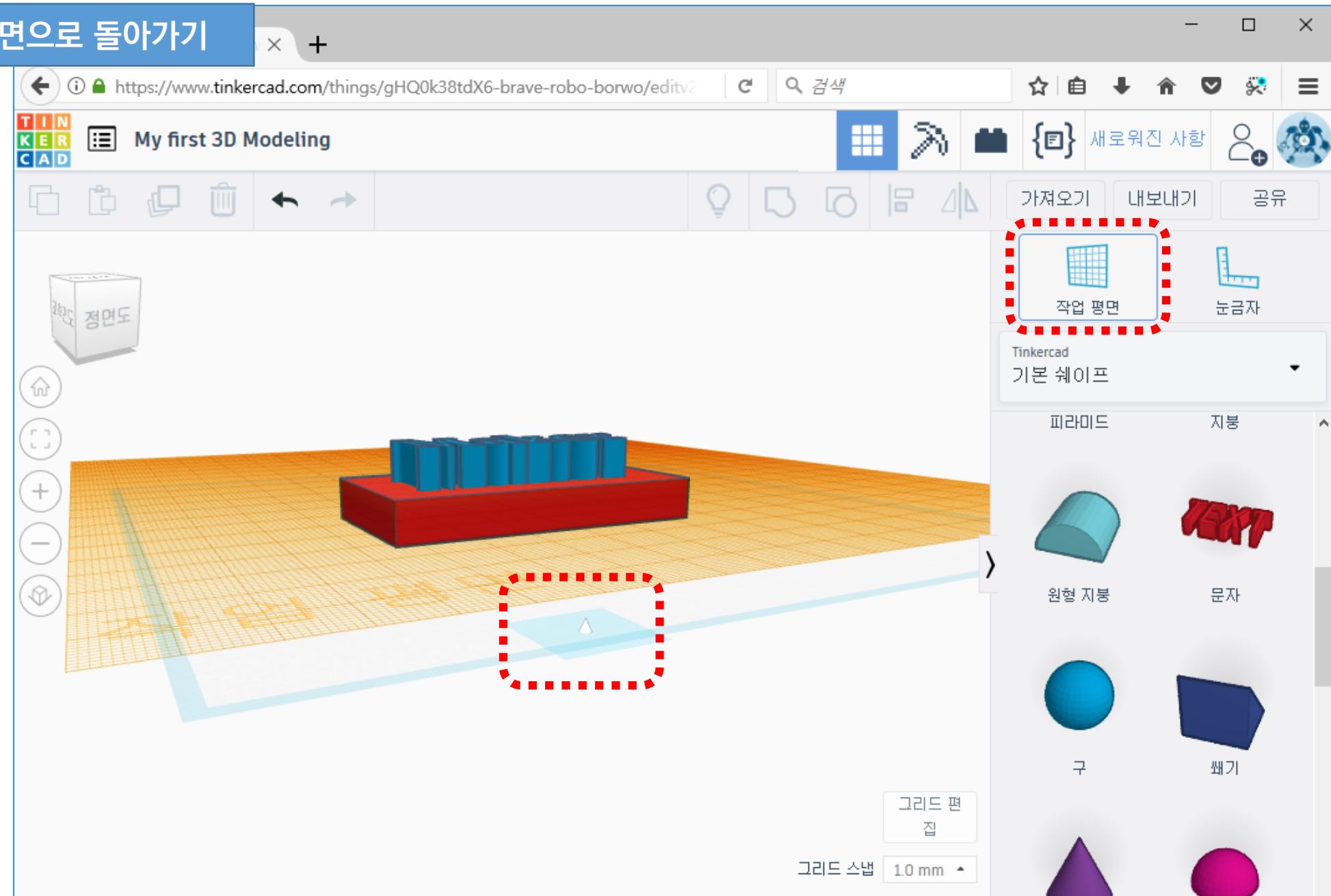
정렬



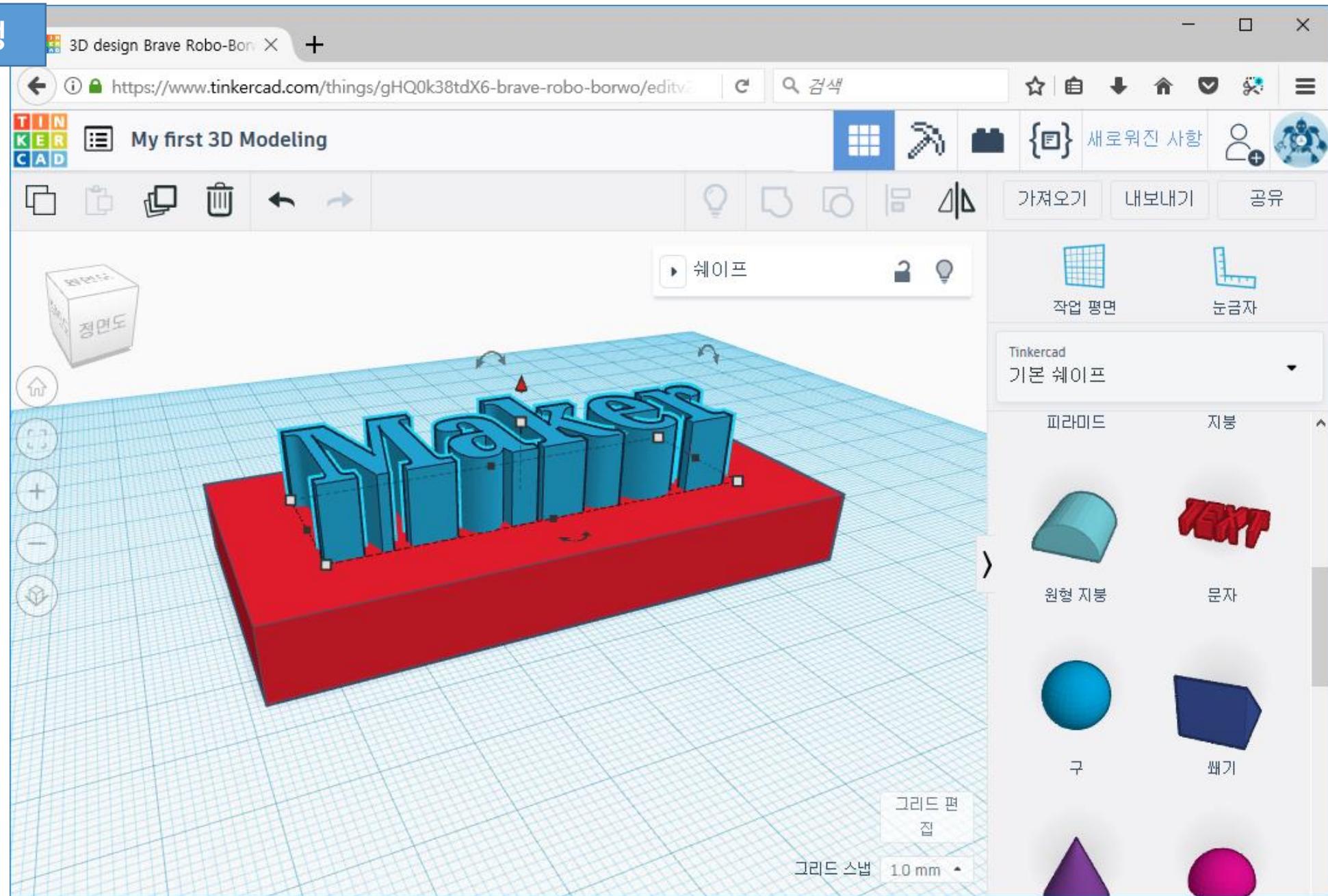


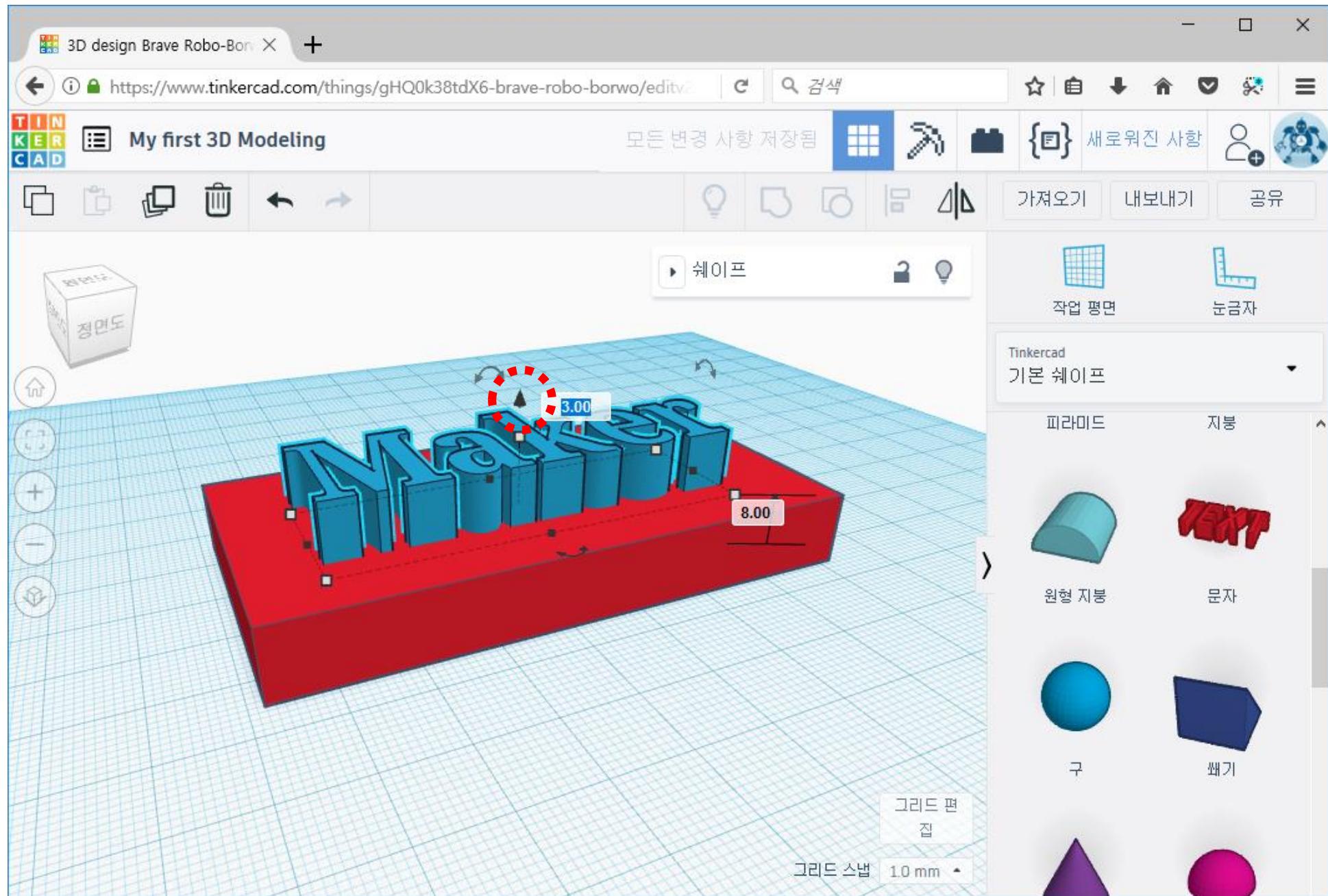


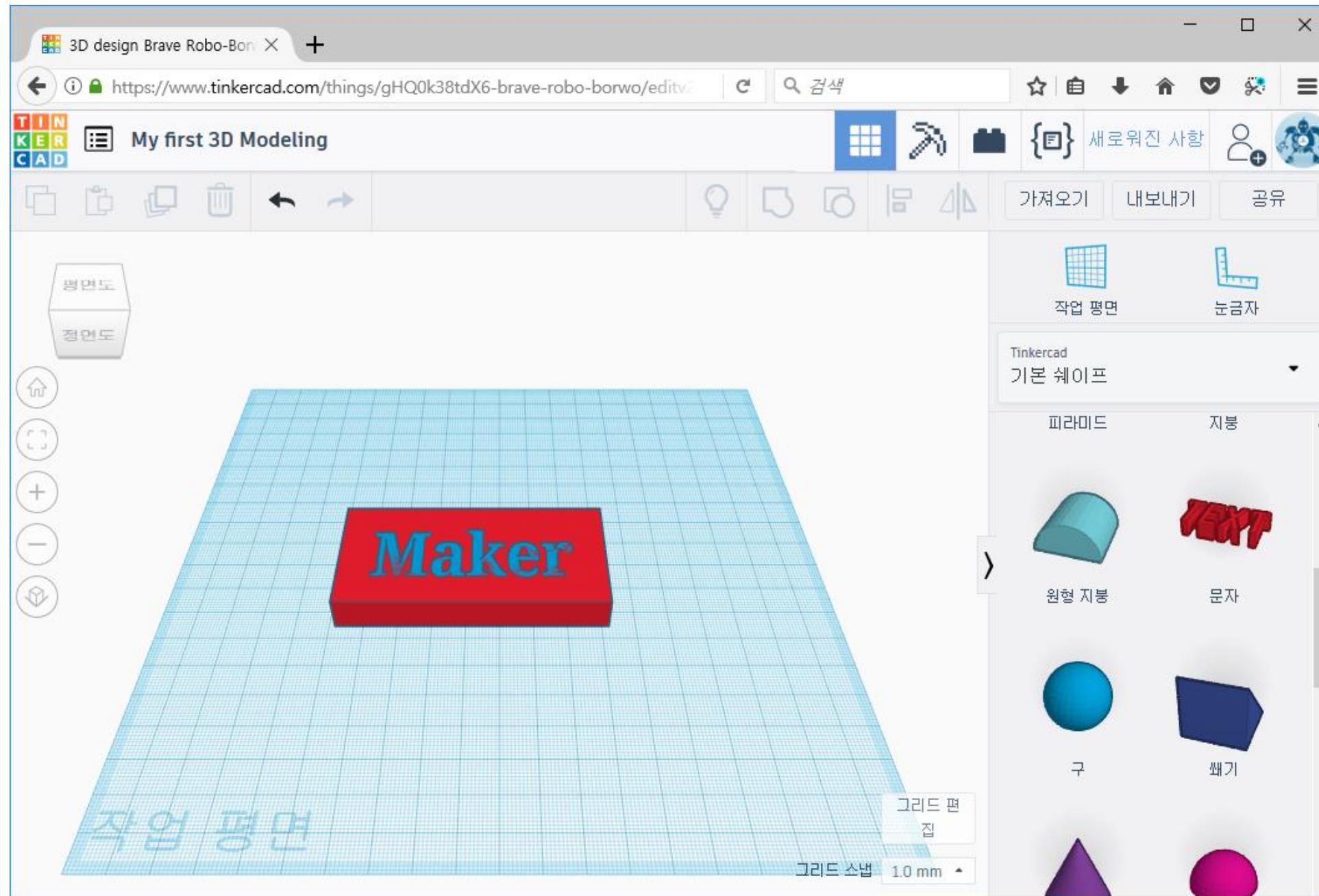
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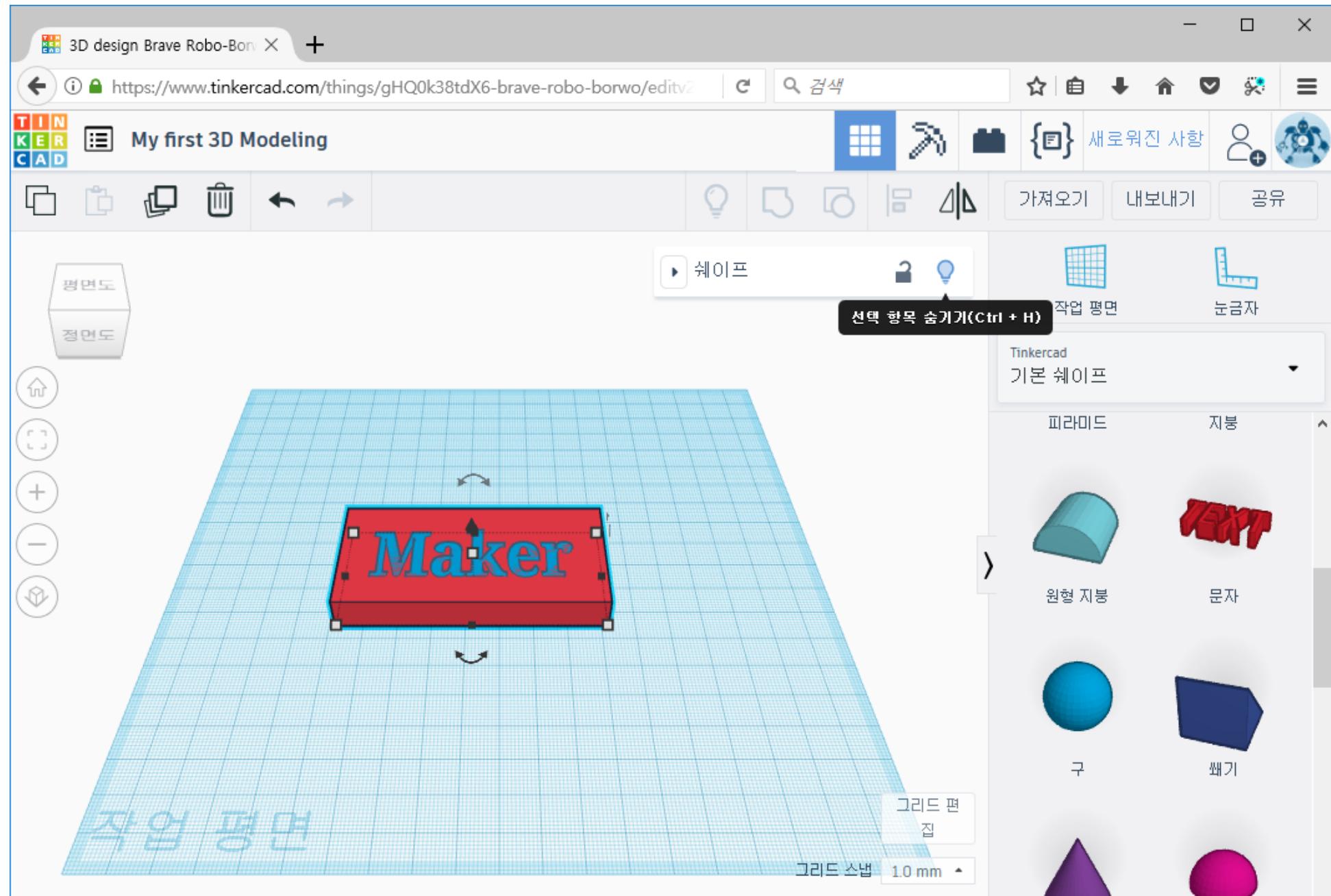


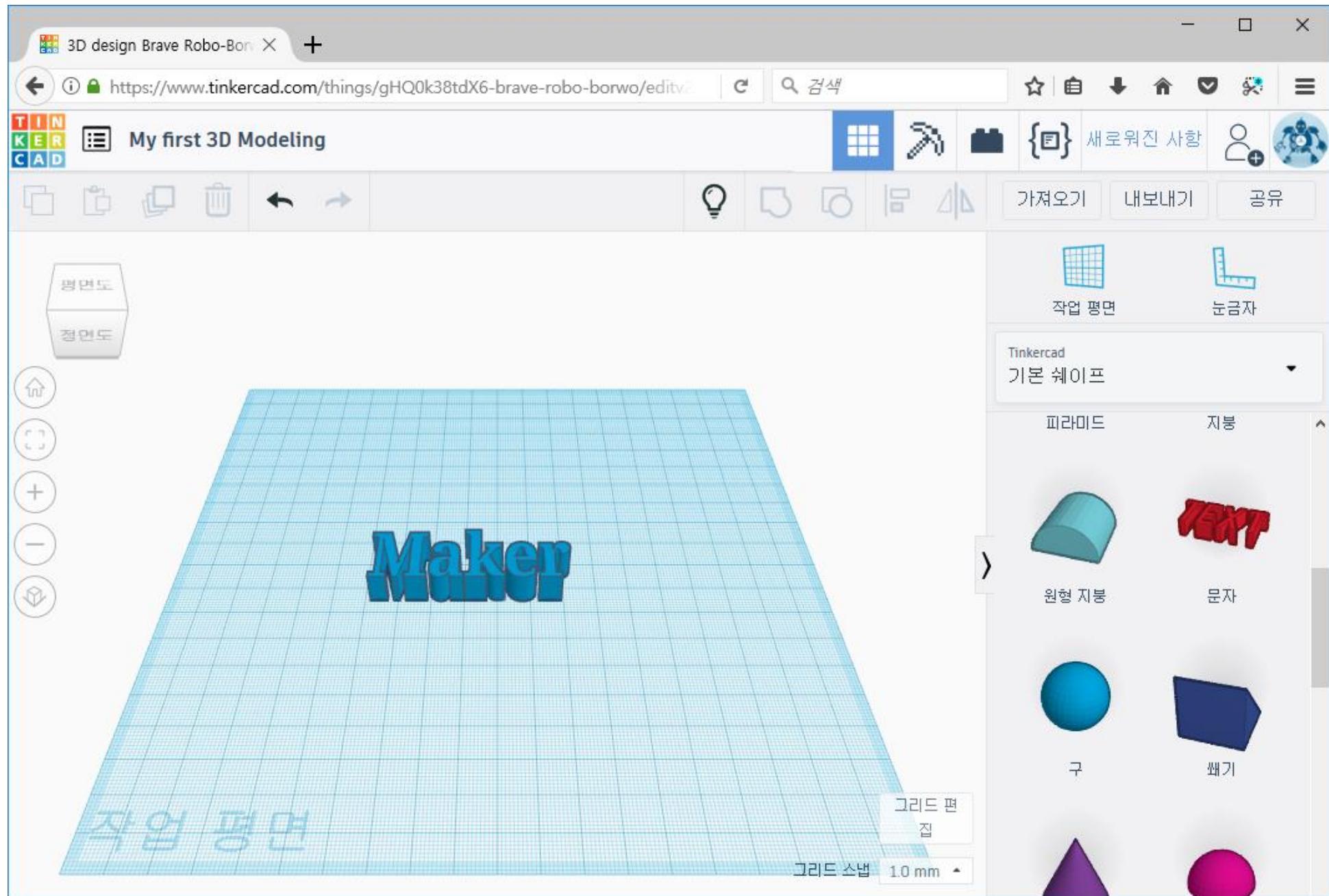
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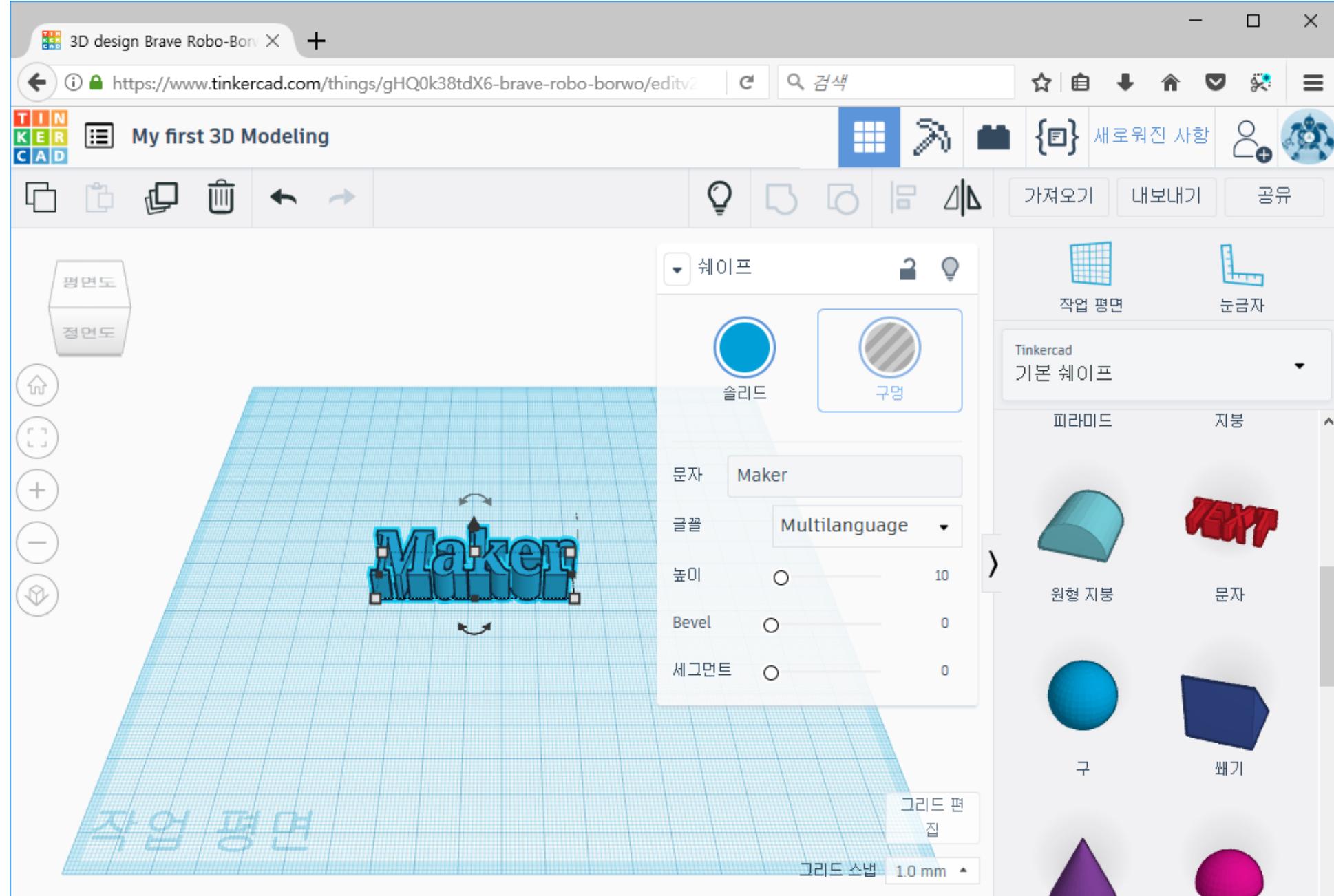


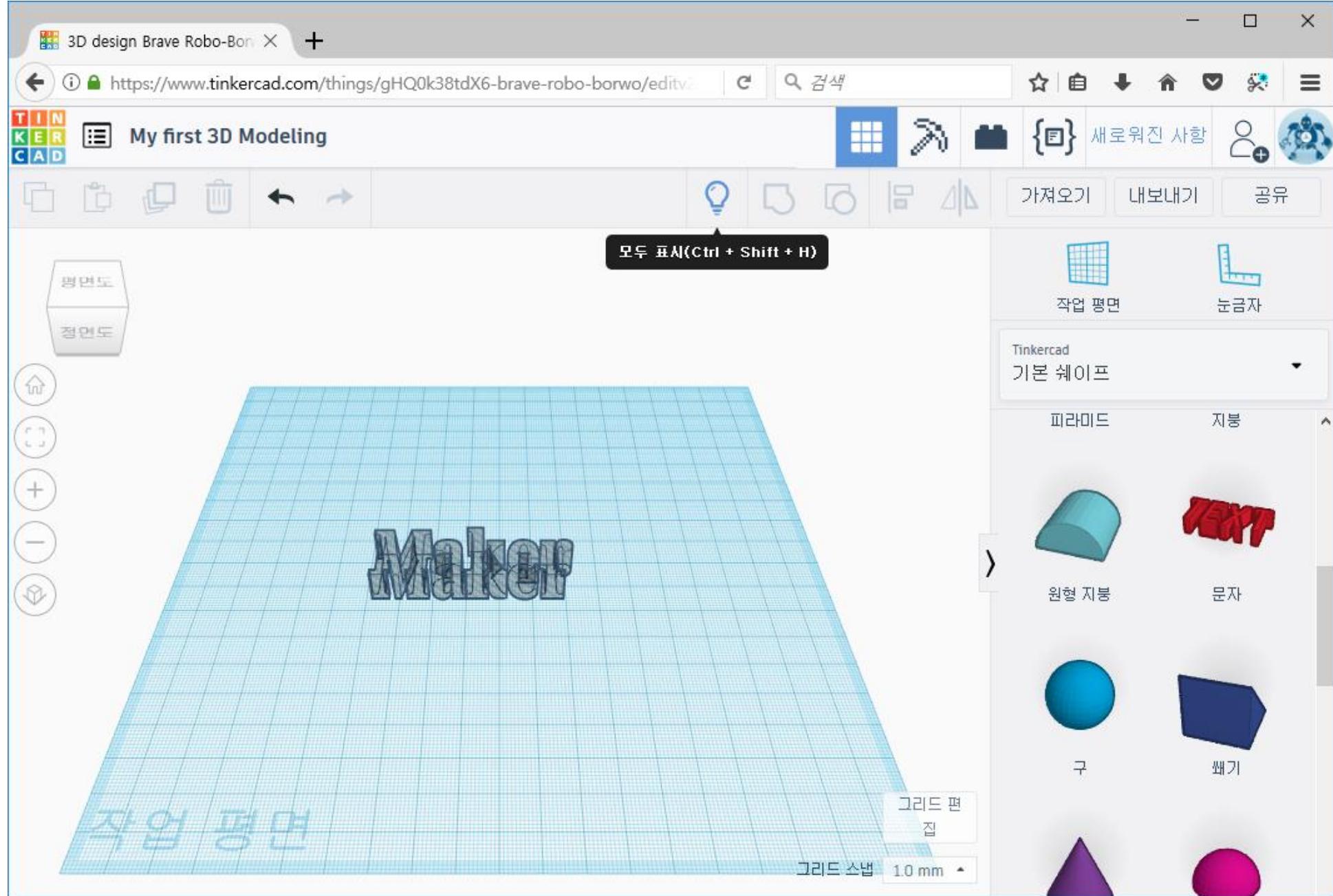


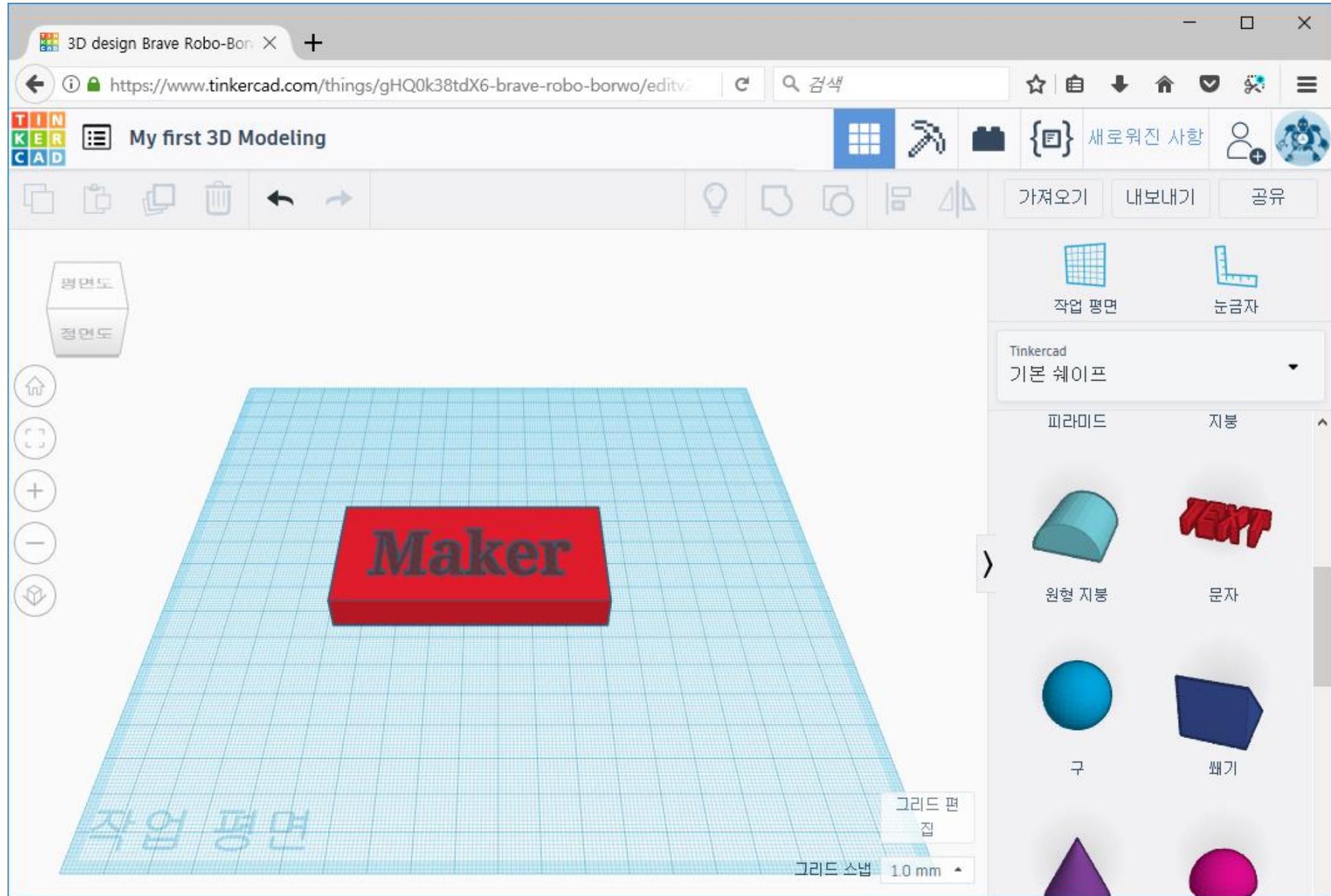


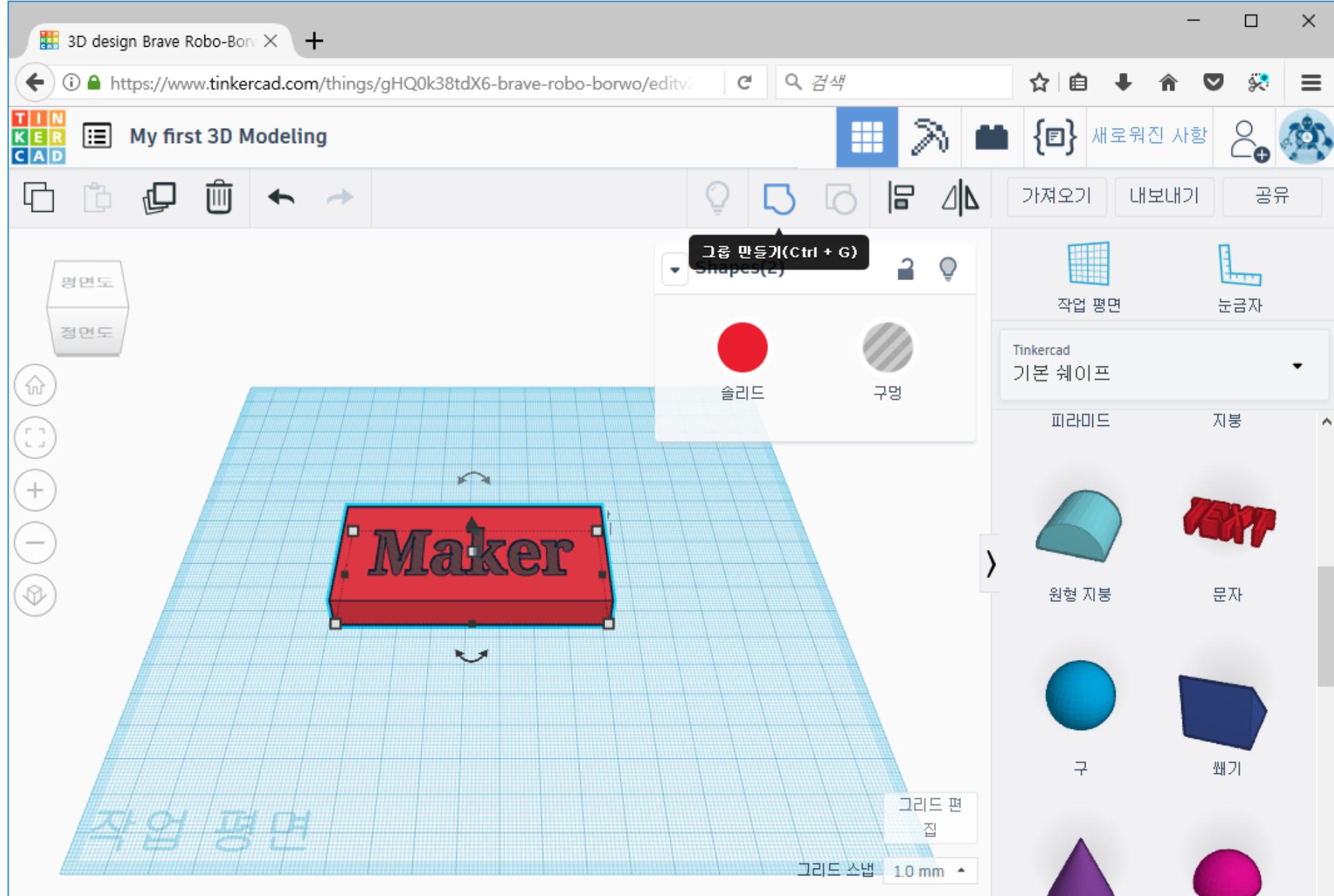


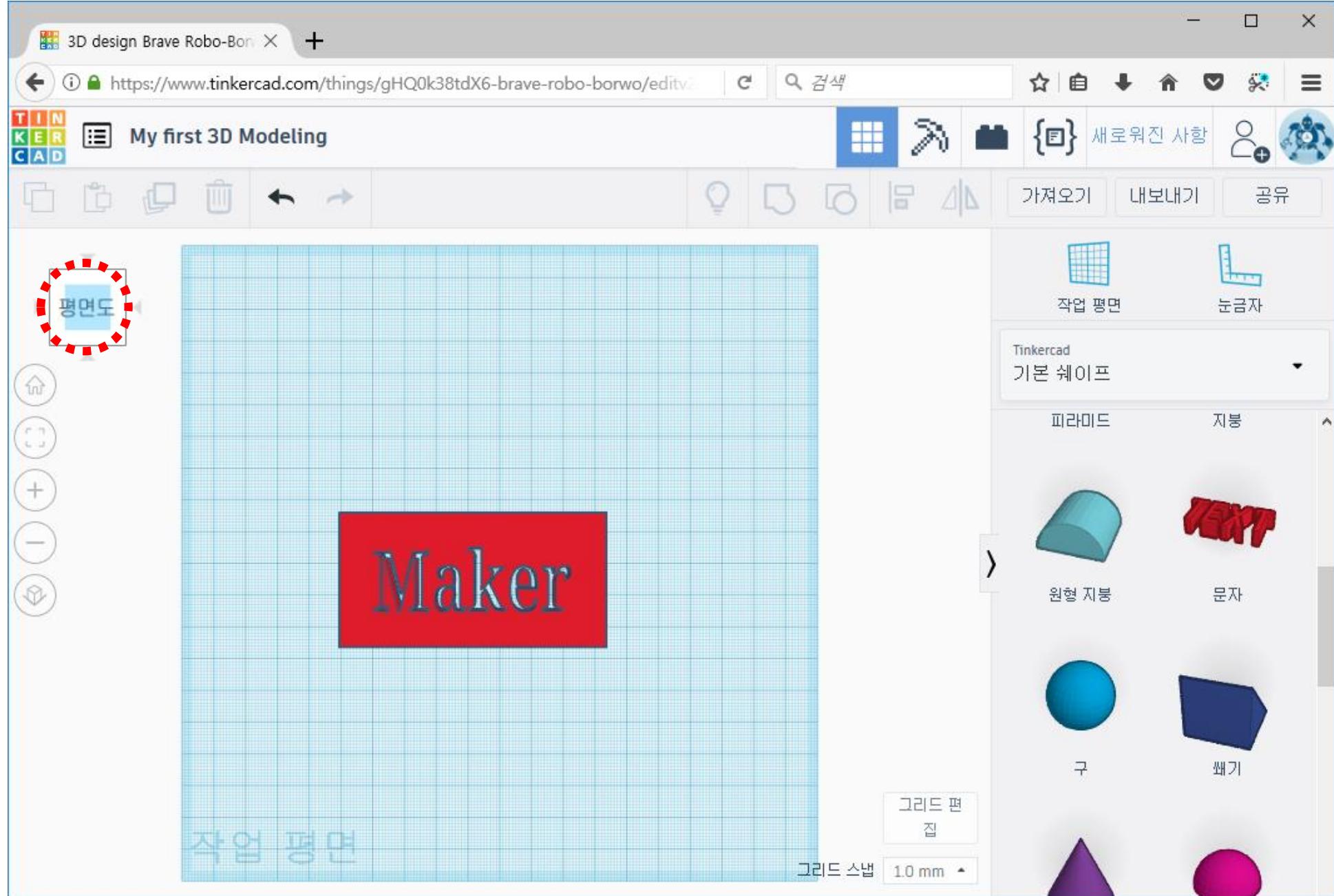




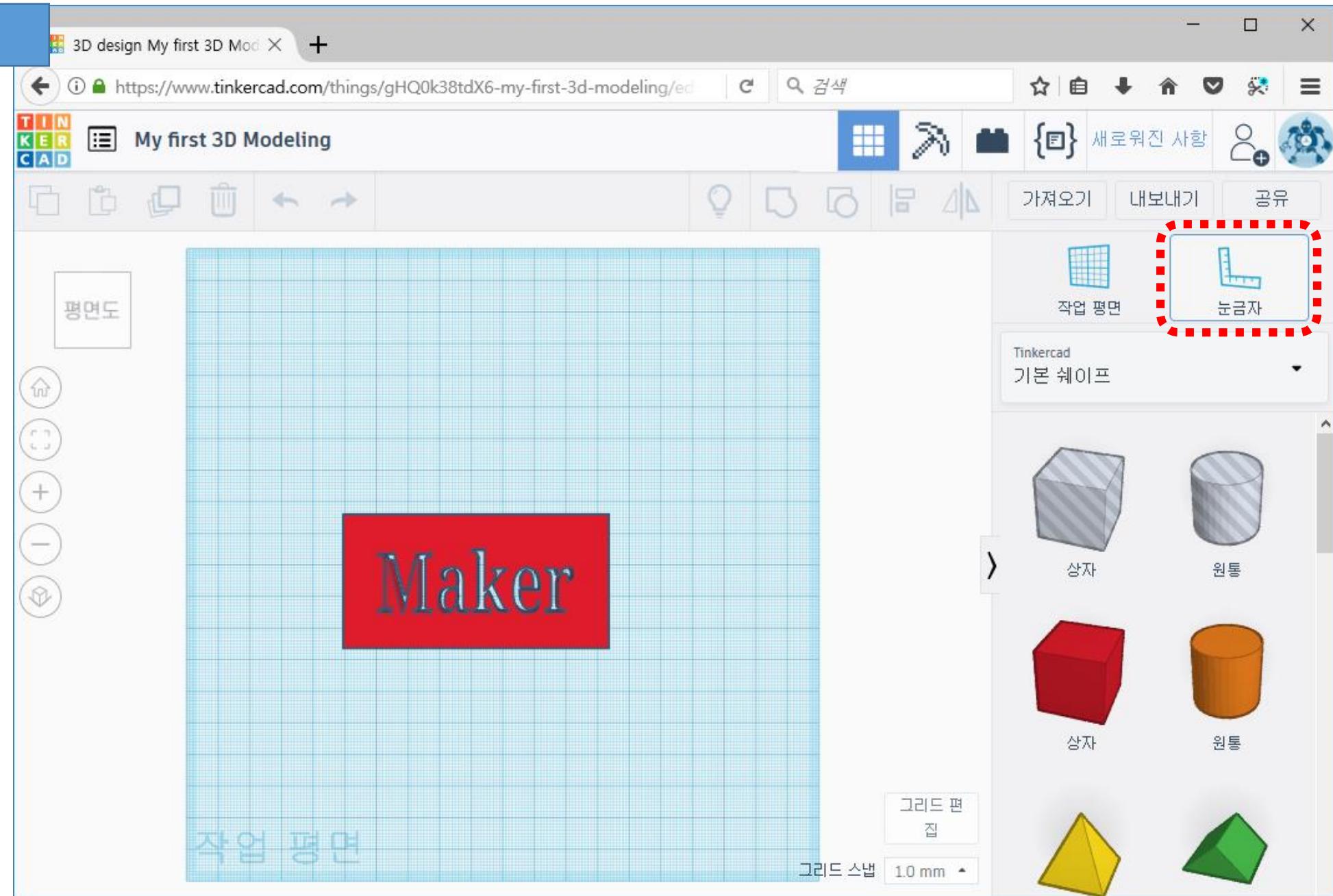


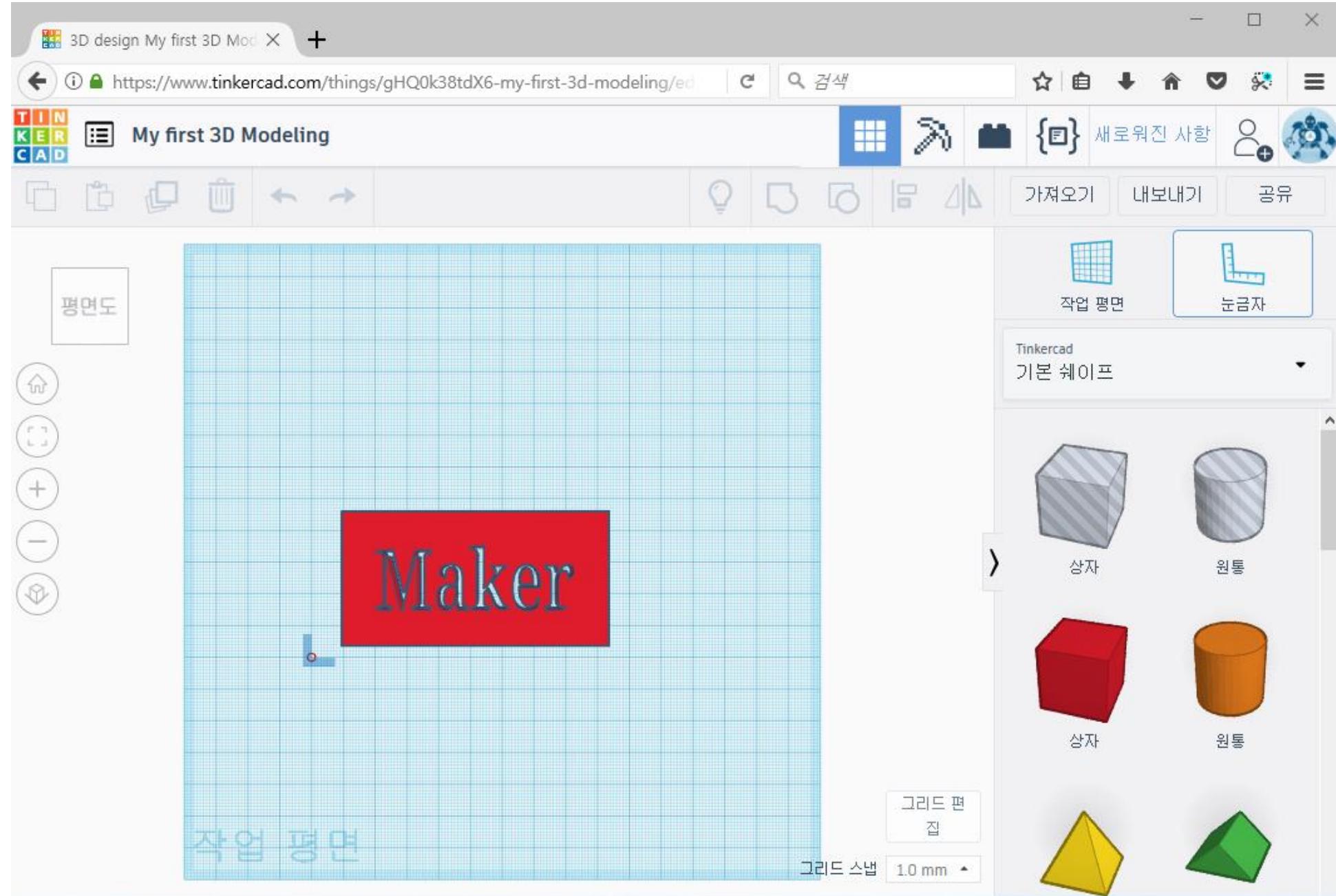


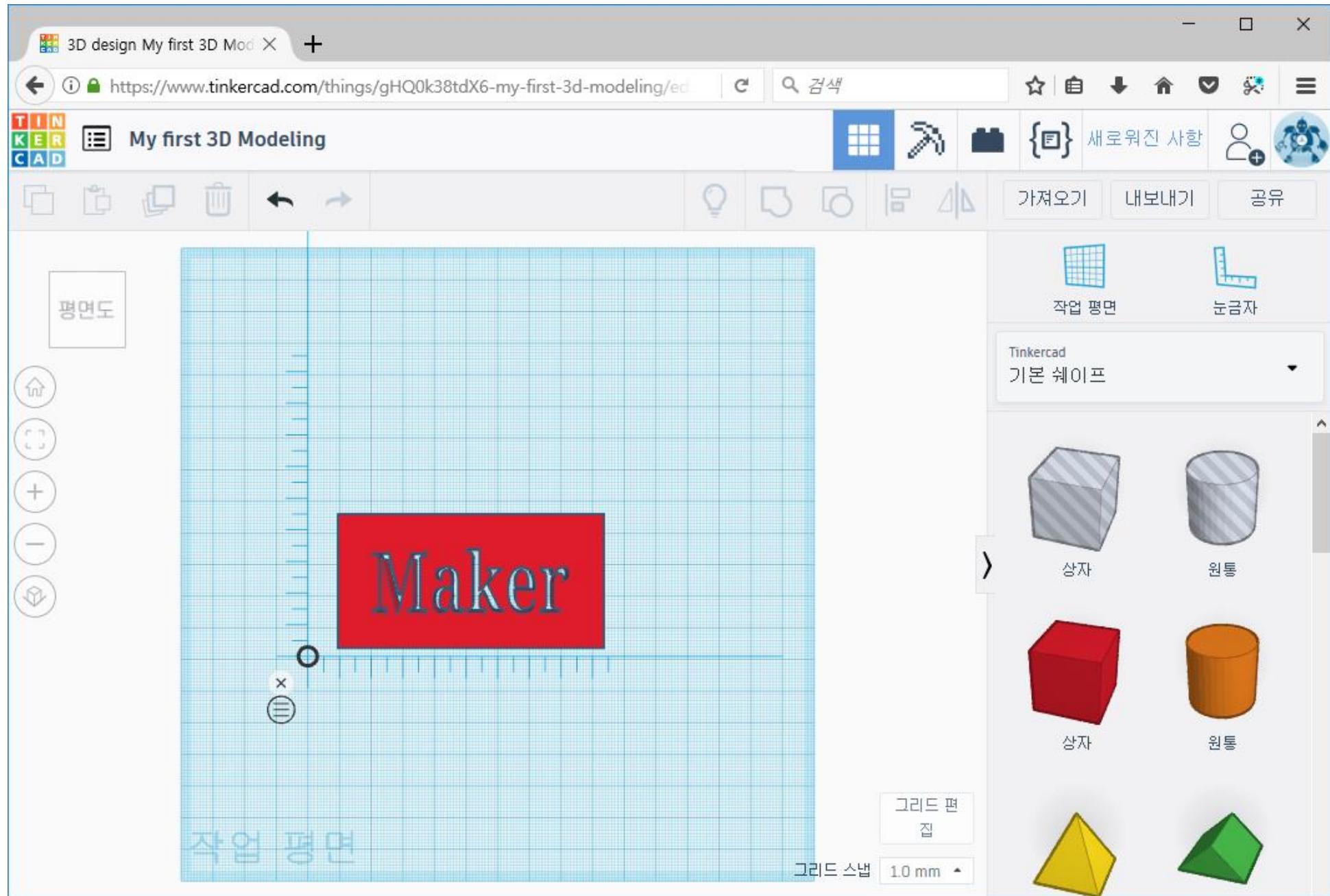


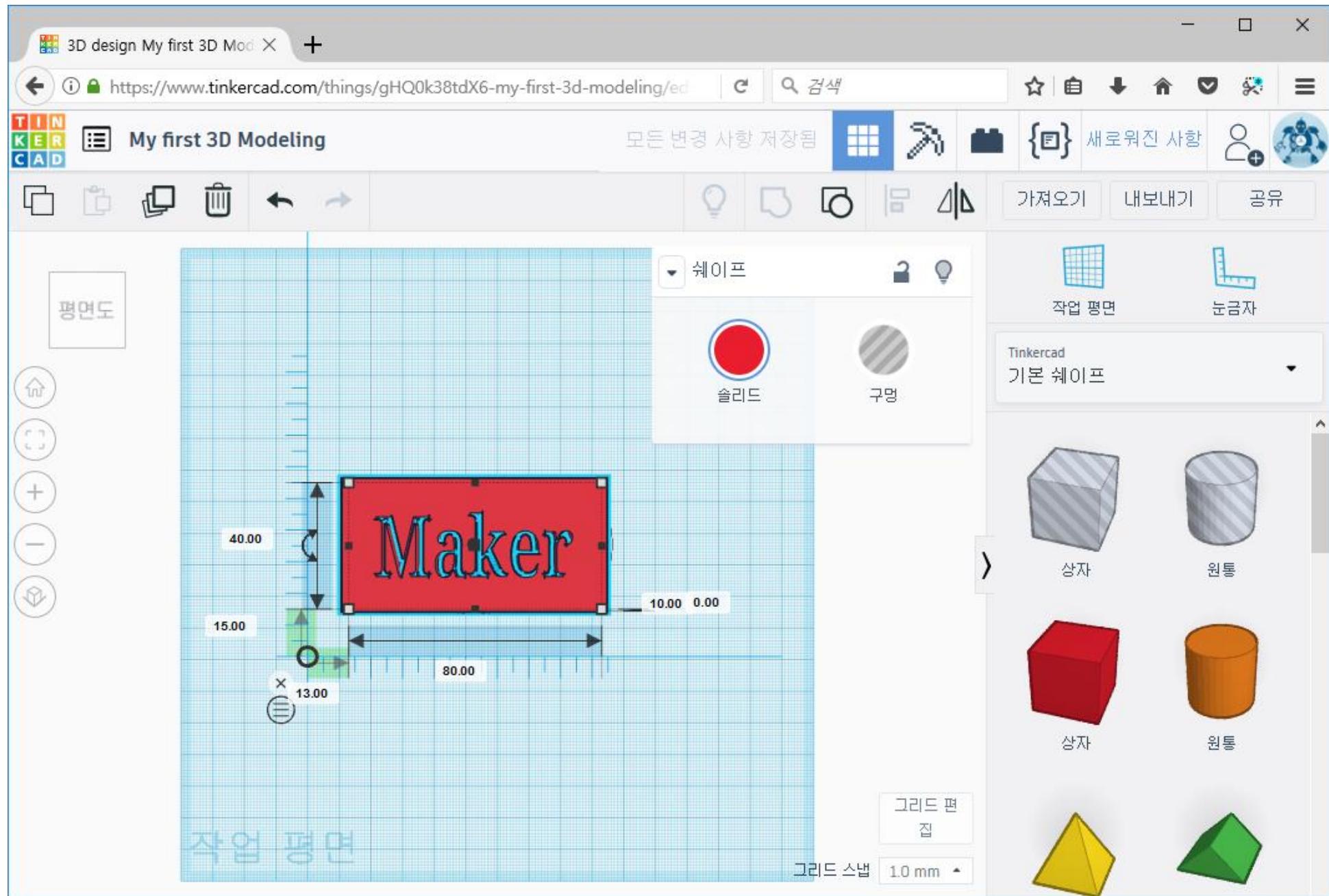


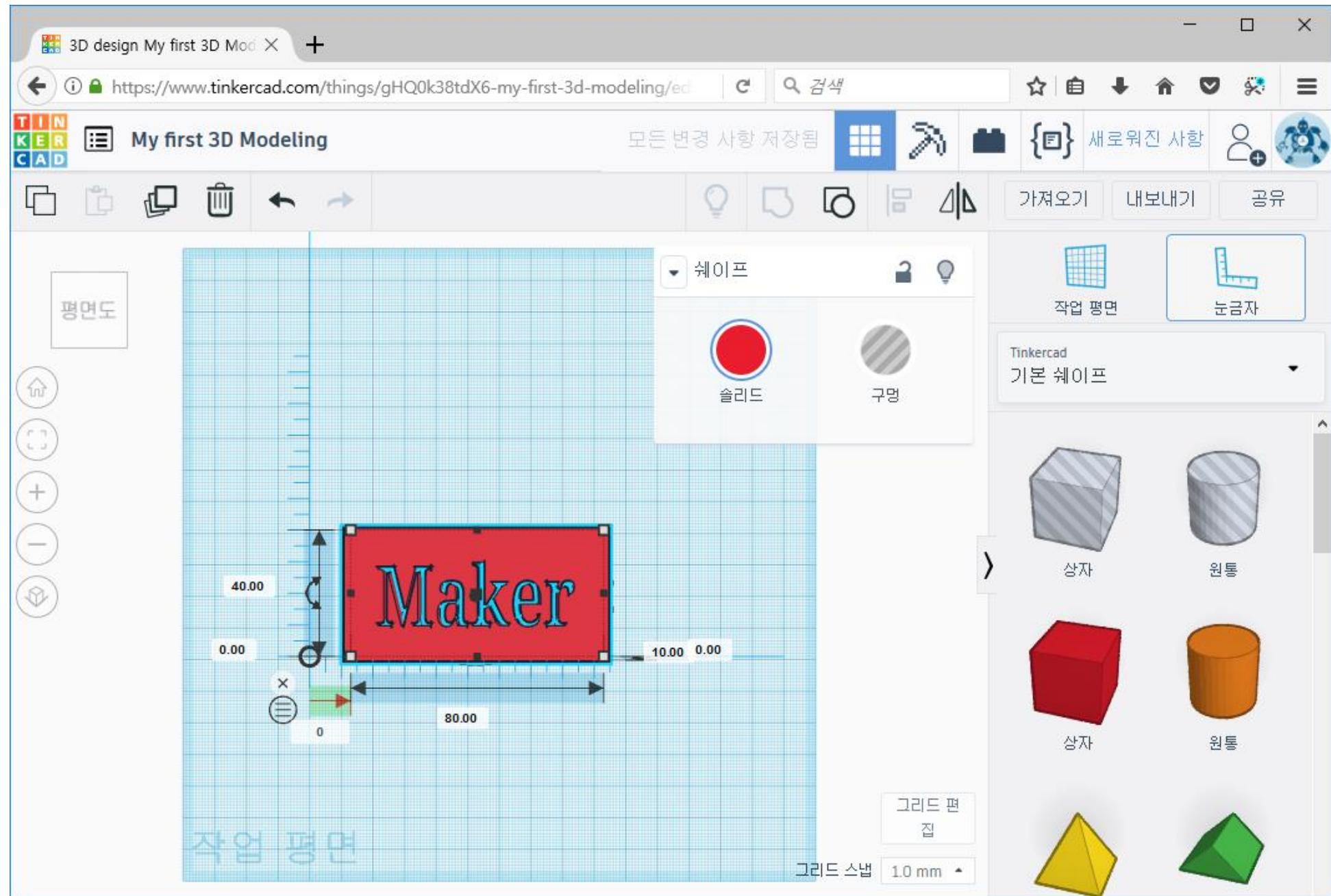
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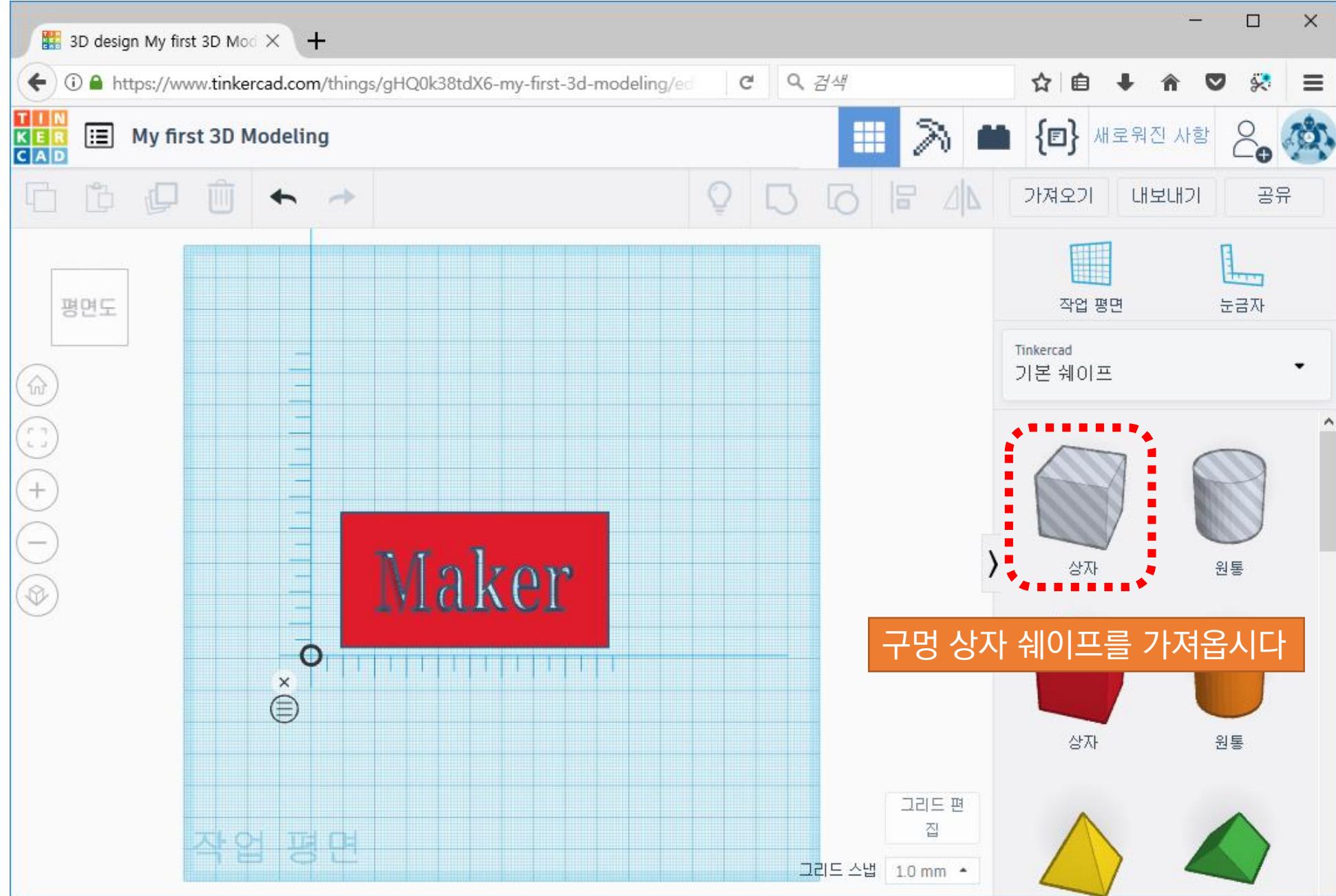




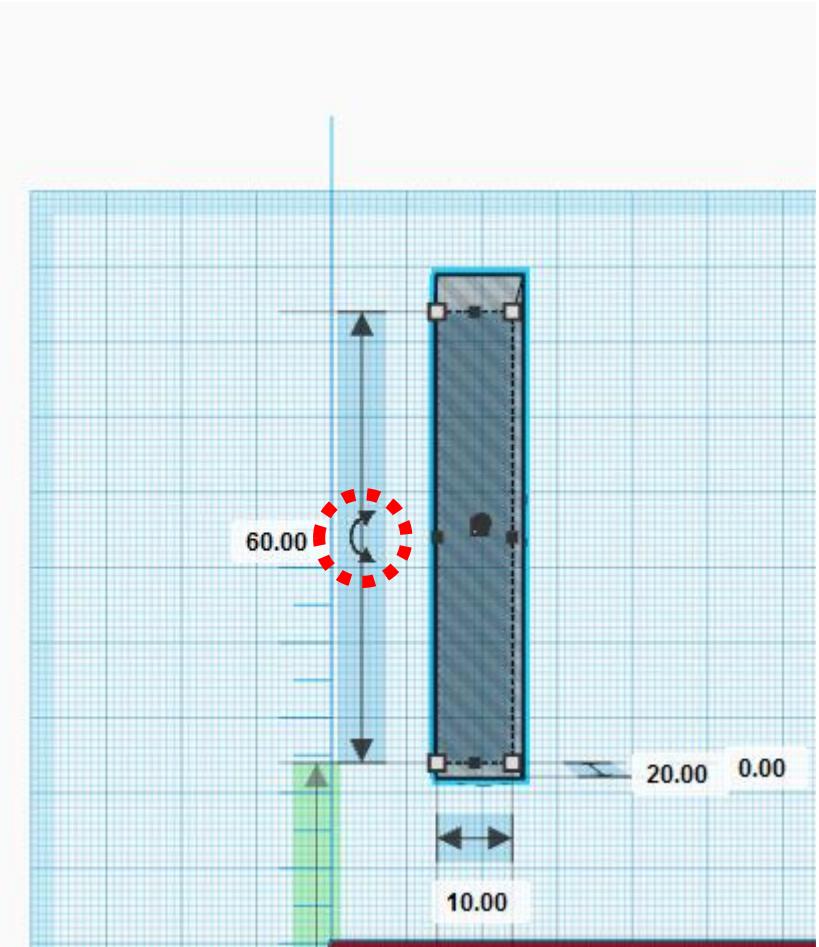




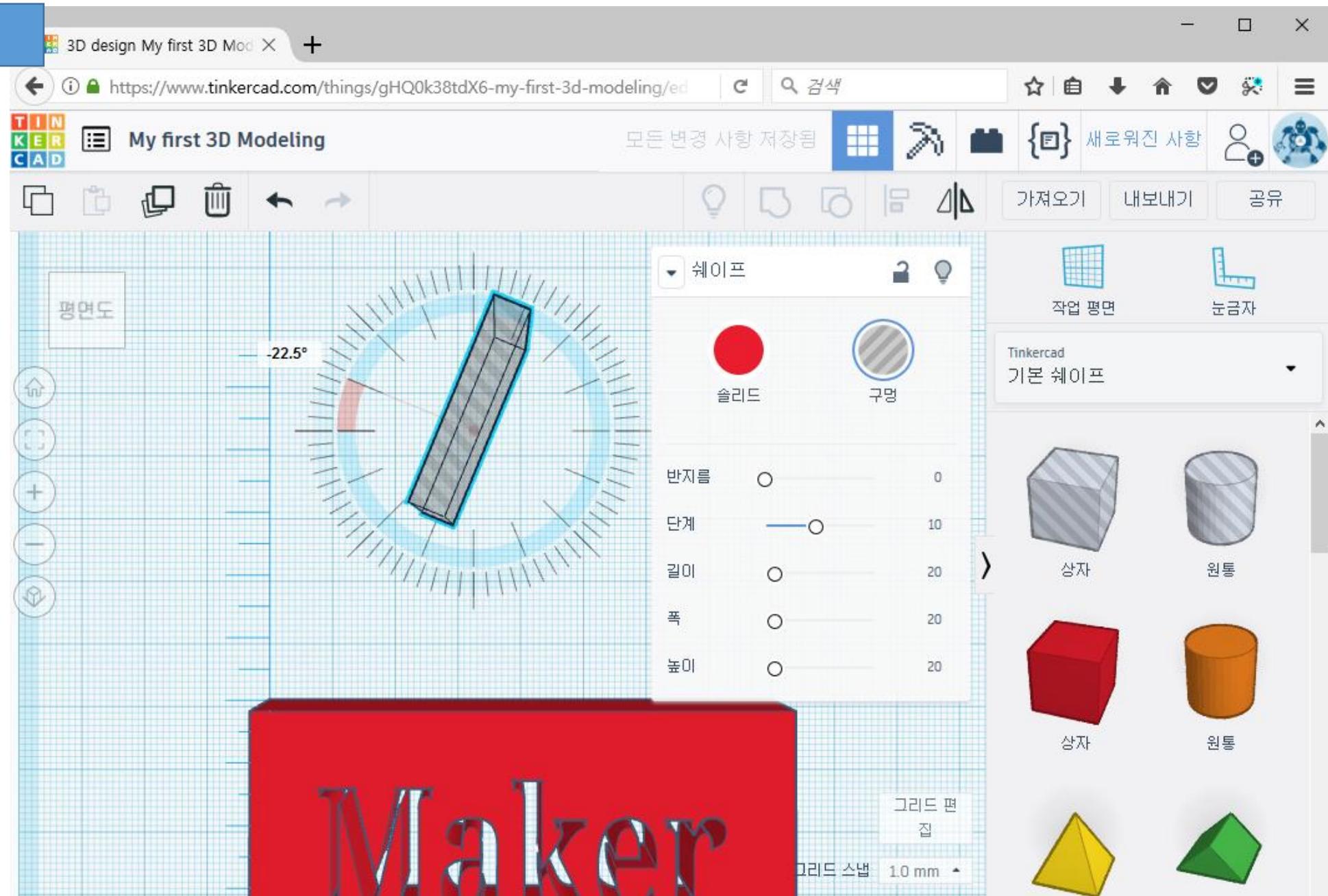


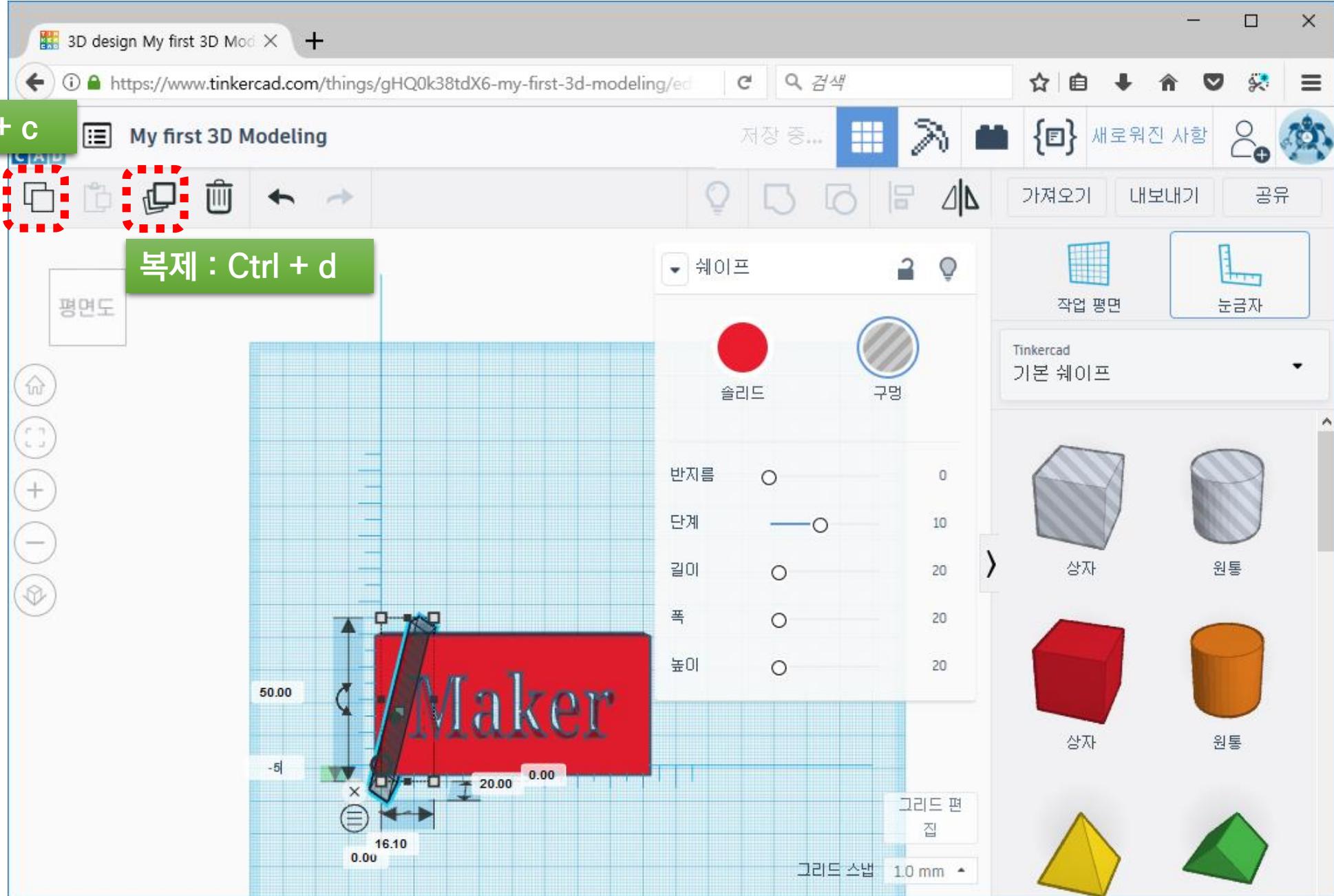


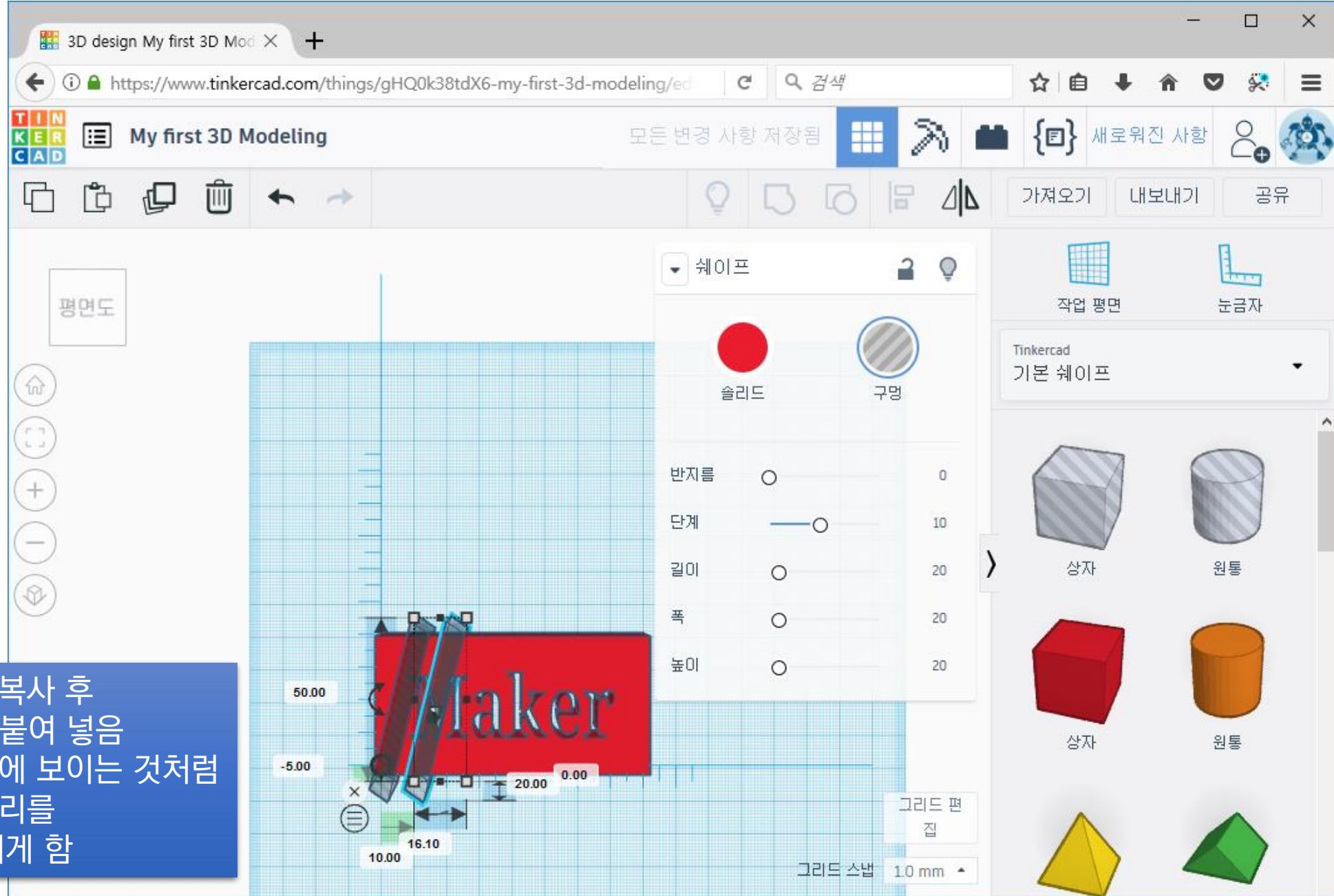
1. 보기 편하게 화면을 이동하고 평면도로 봅니다.
2. 옆의 화면과 같이 크기를 지정합니다.
3. 좌측의 회전 도구를 이용하여 회전합니다.

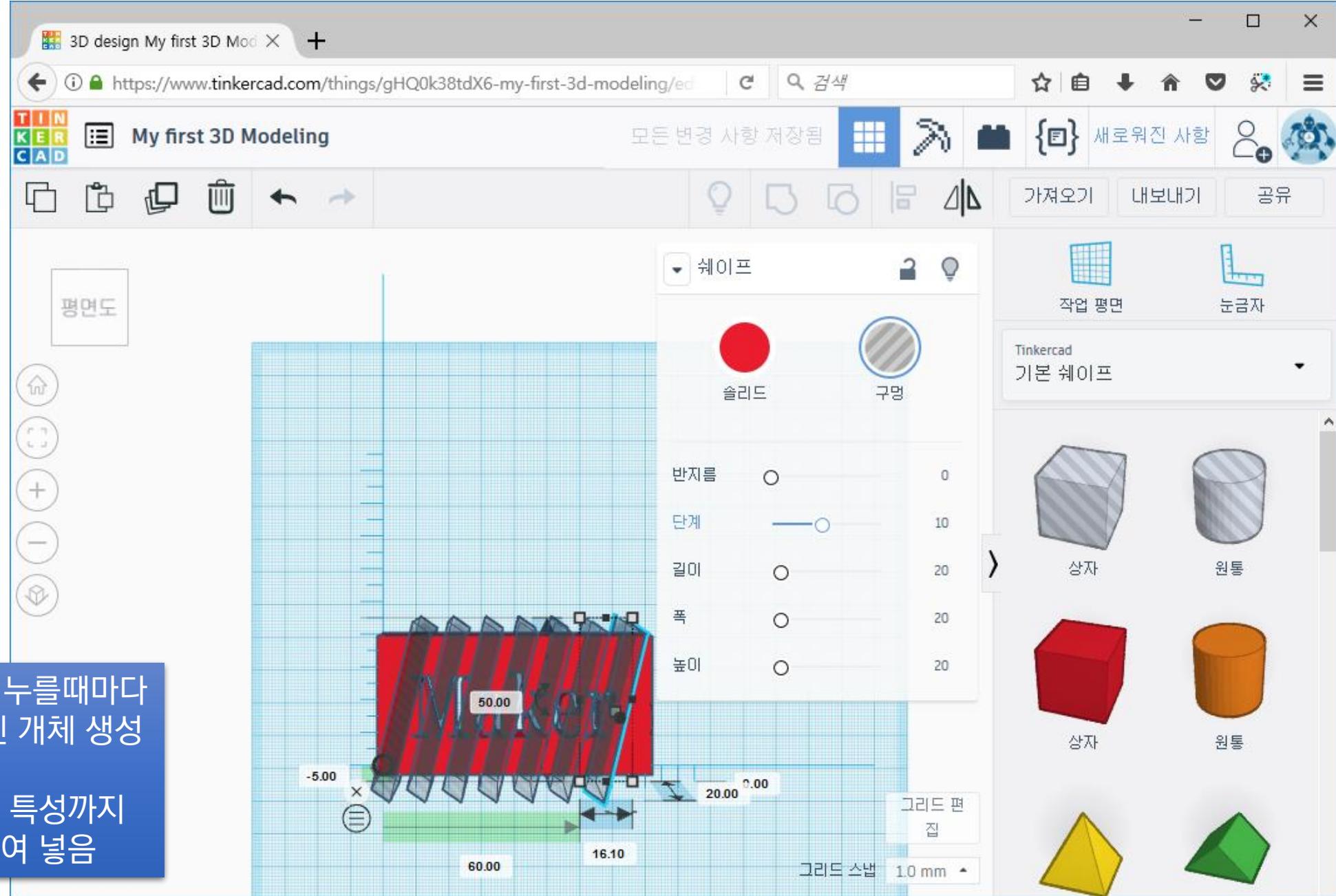


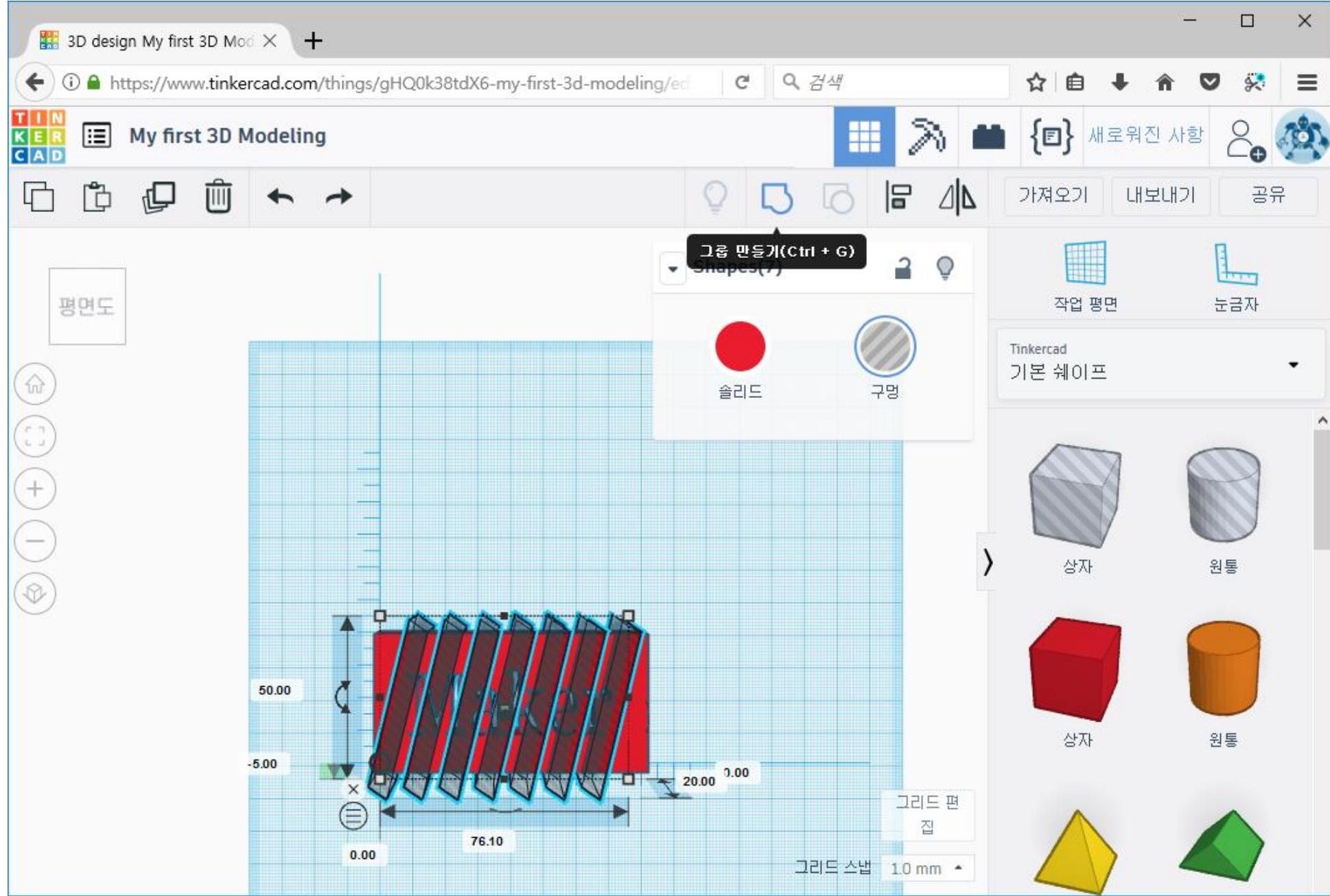
패턴 복제

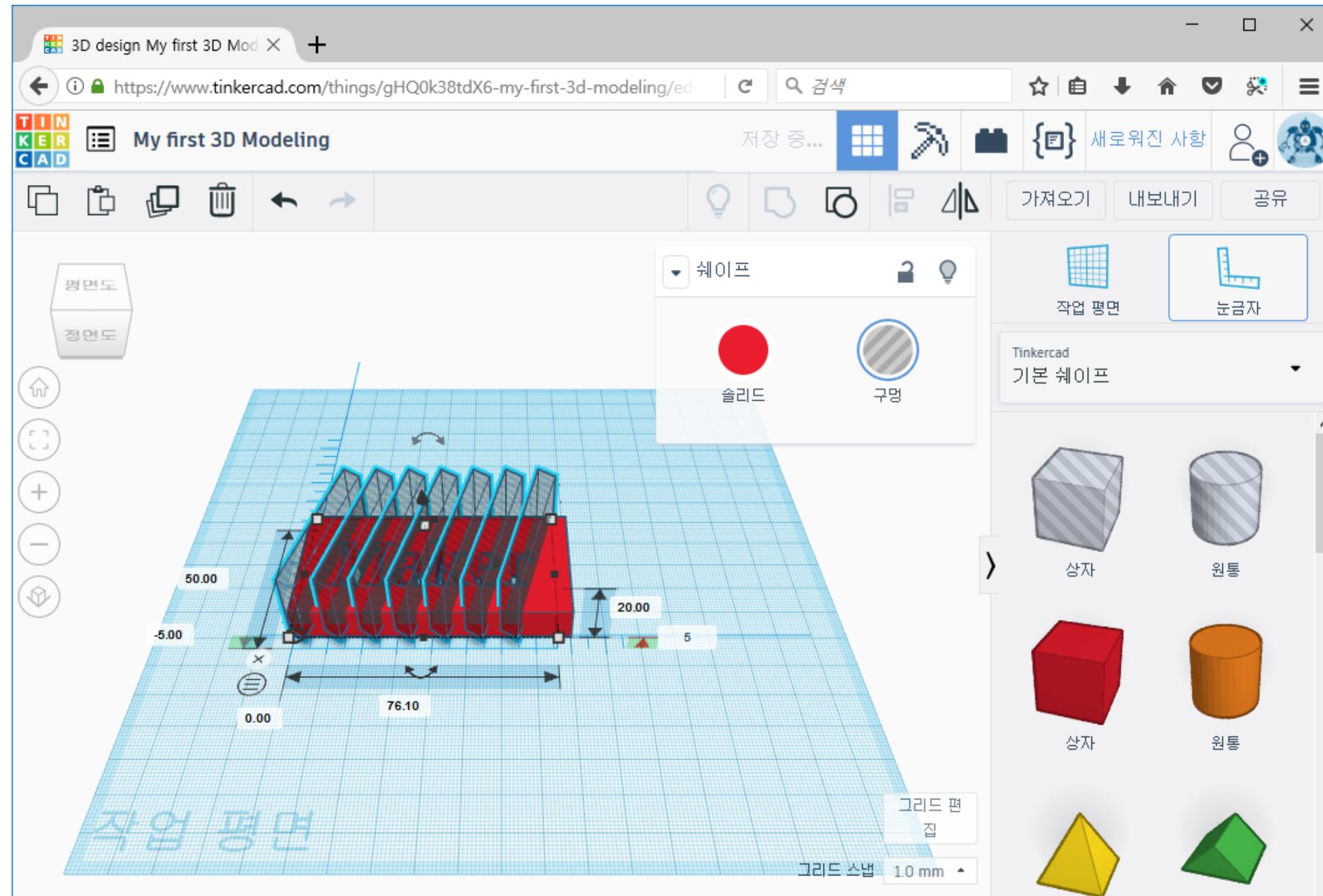


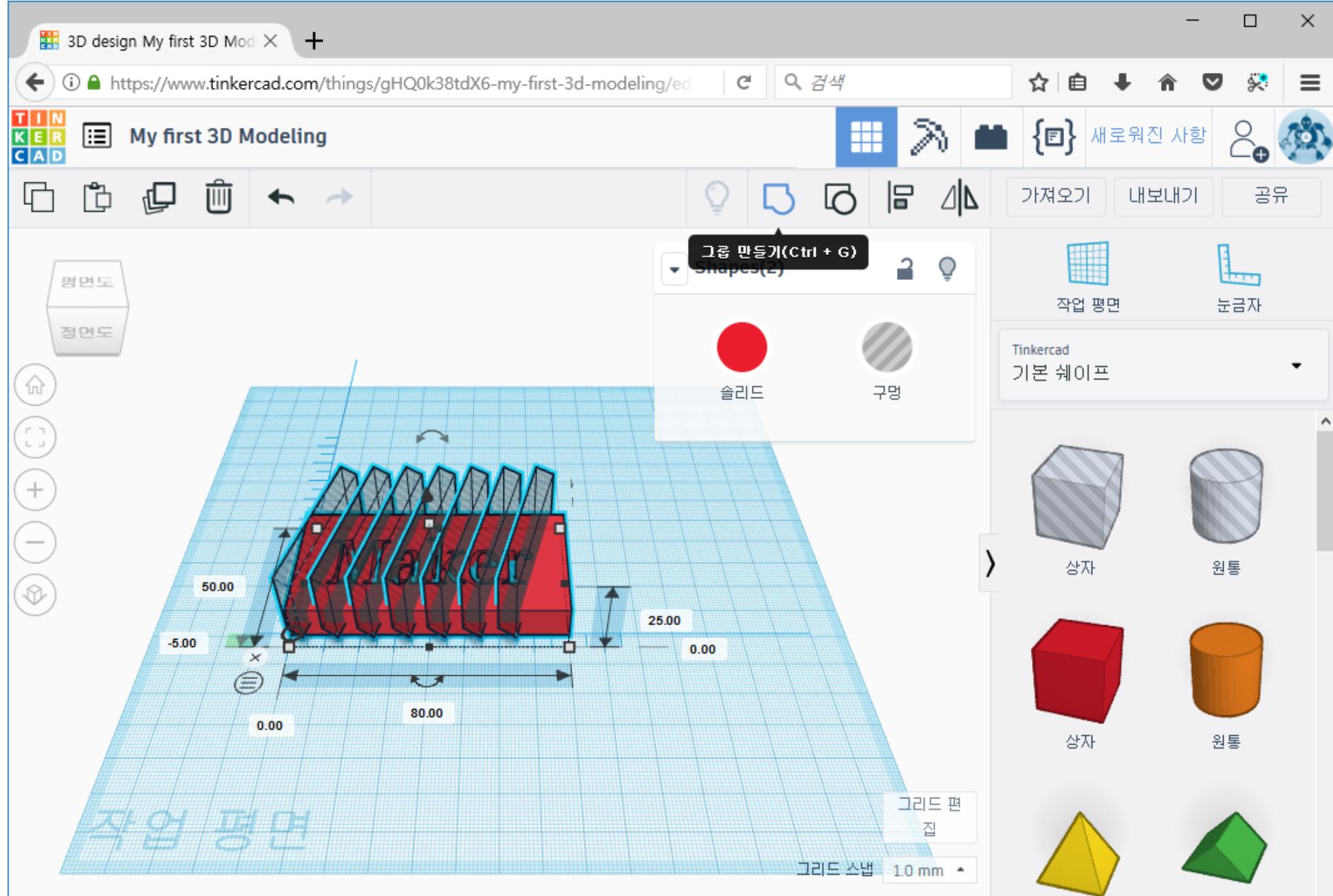


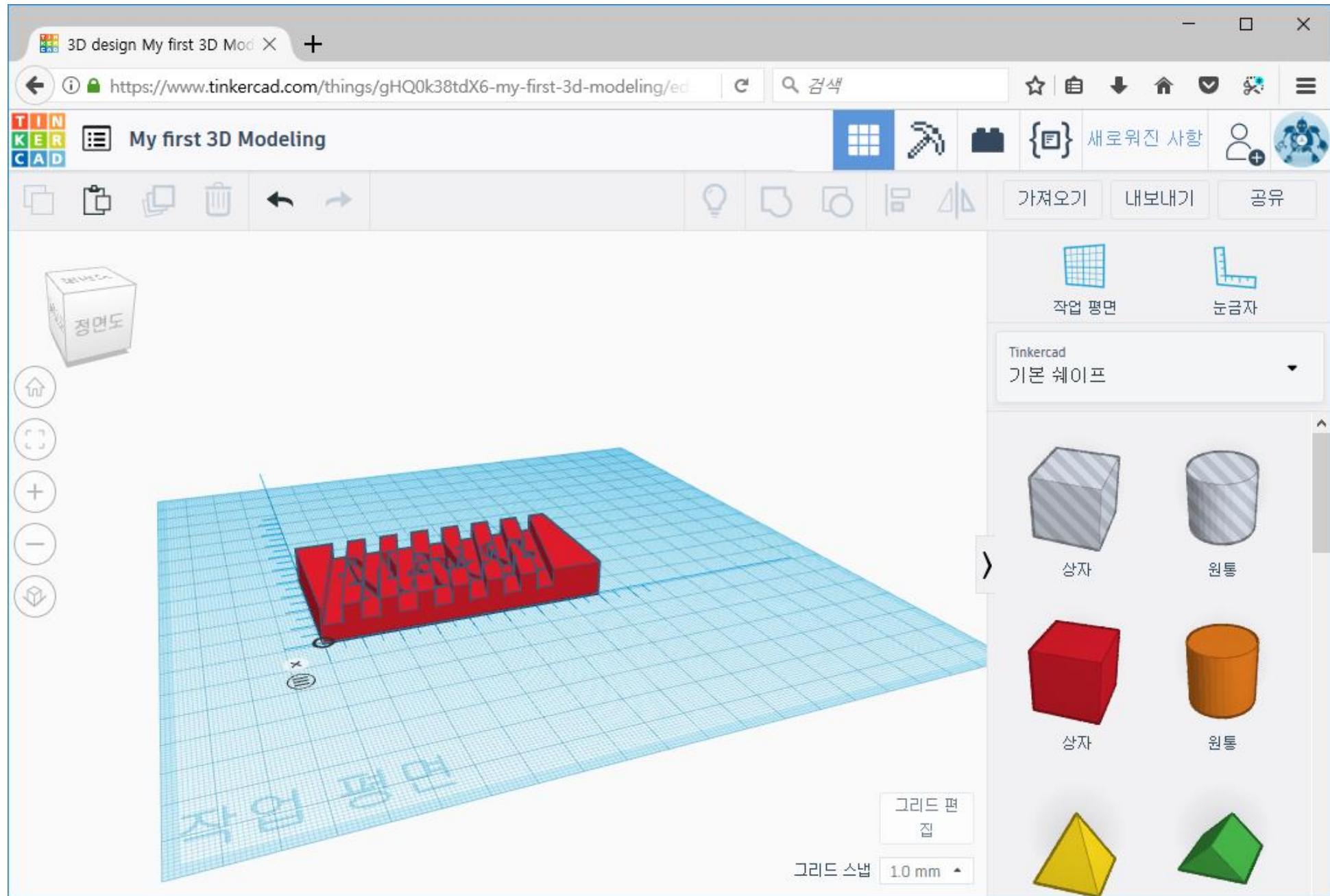


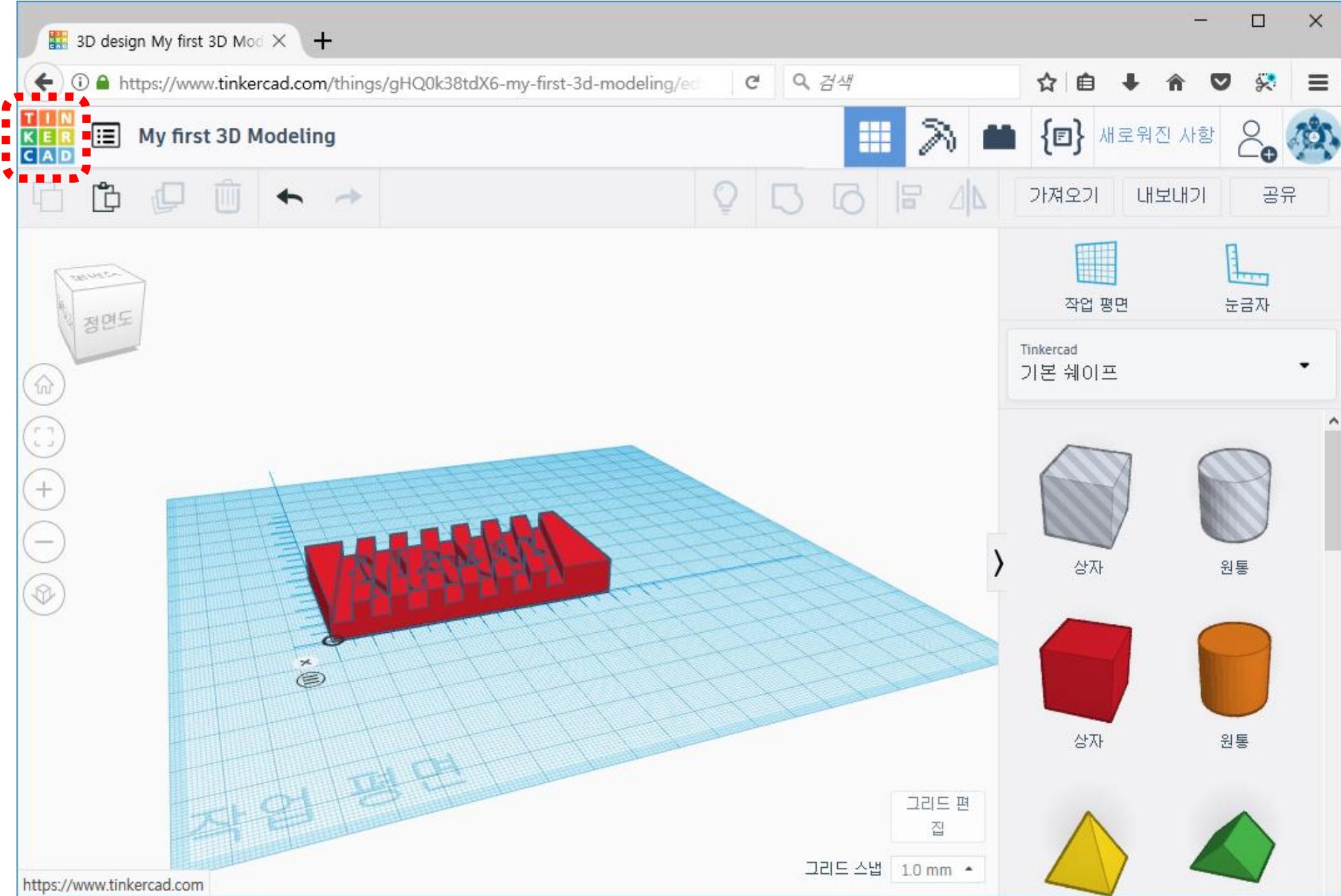












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프로젝트

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My first 3D Modeling

몇 초전
비공개

Frantic Sango

8일 전
비공개

Powerful Borwo

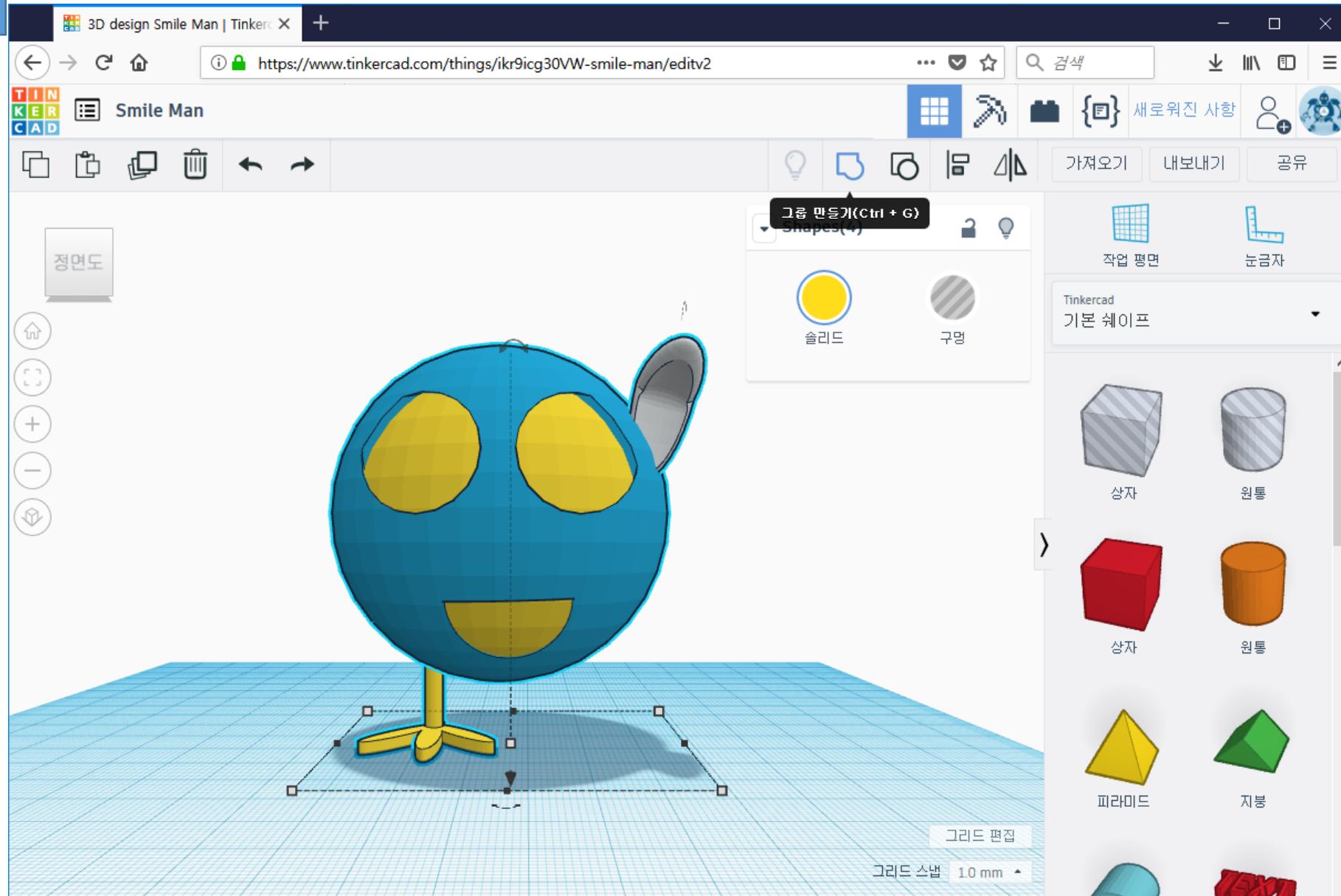
19일 전
비공개

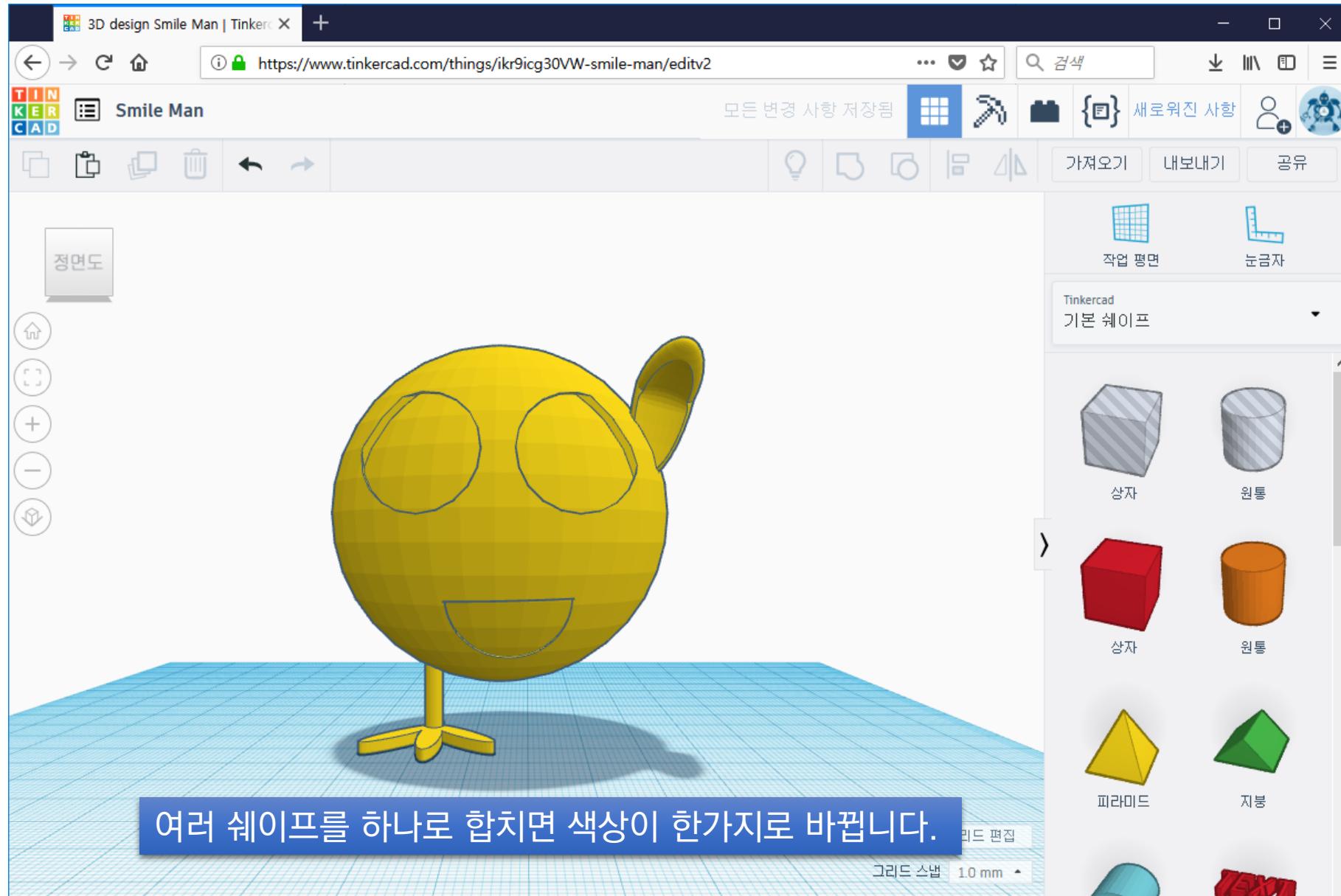
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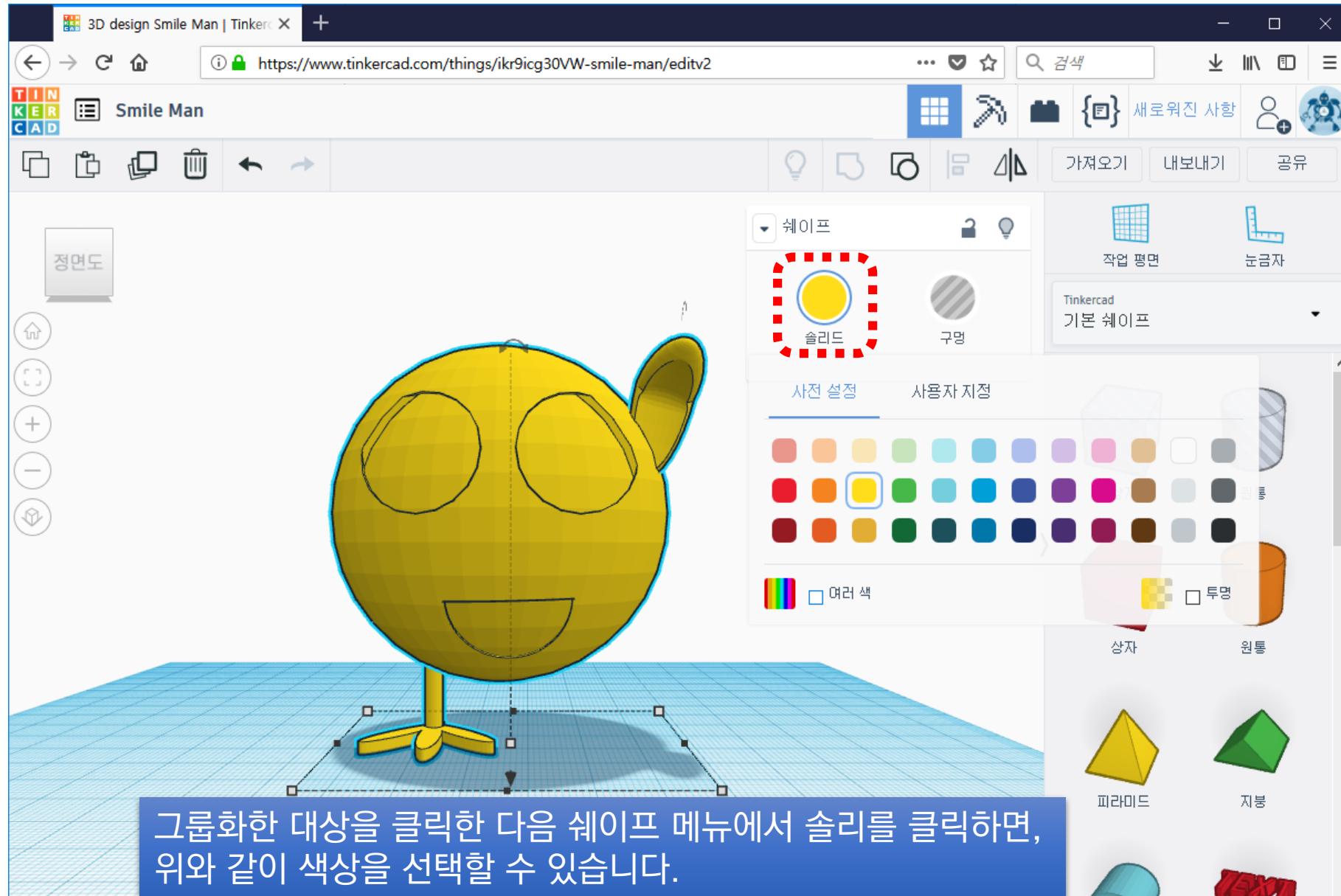
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내 최근 디자인

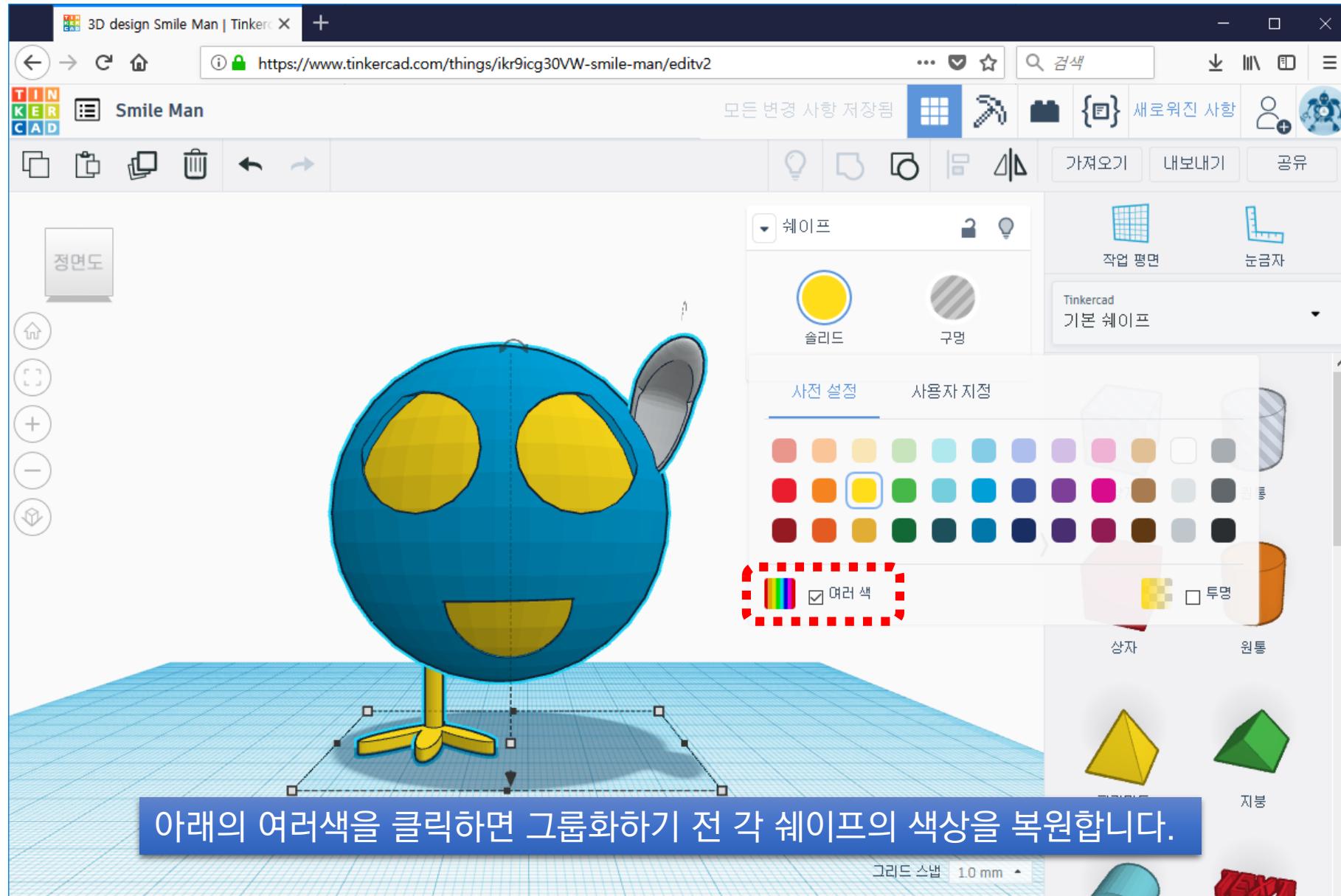
Group 색상



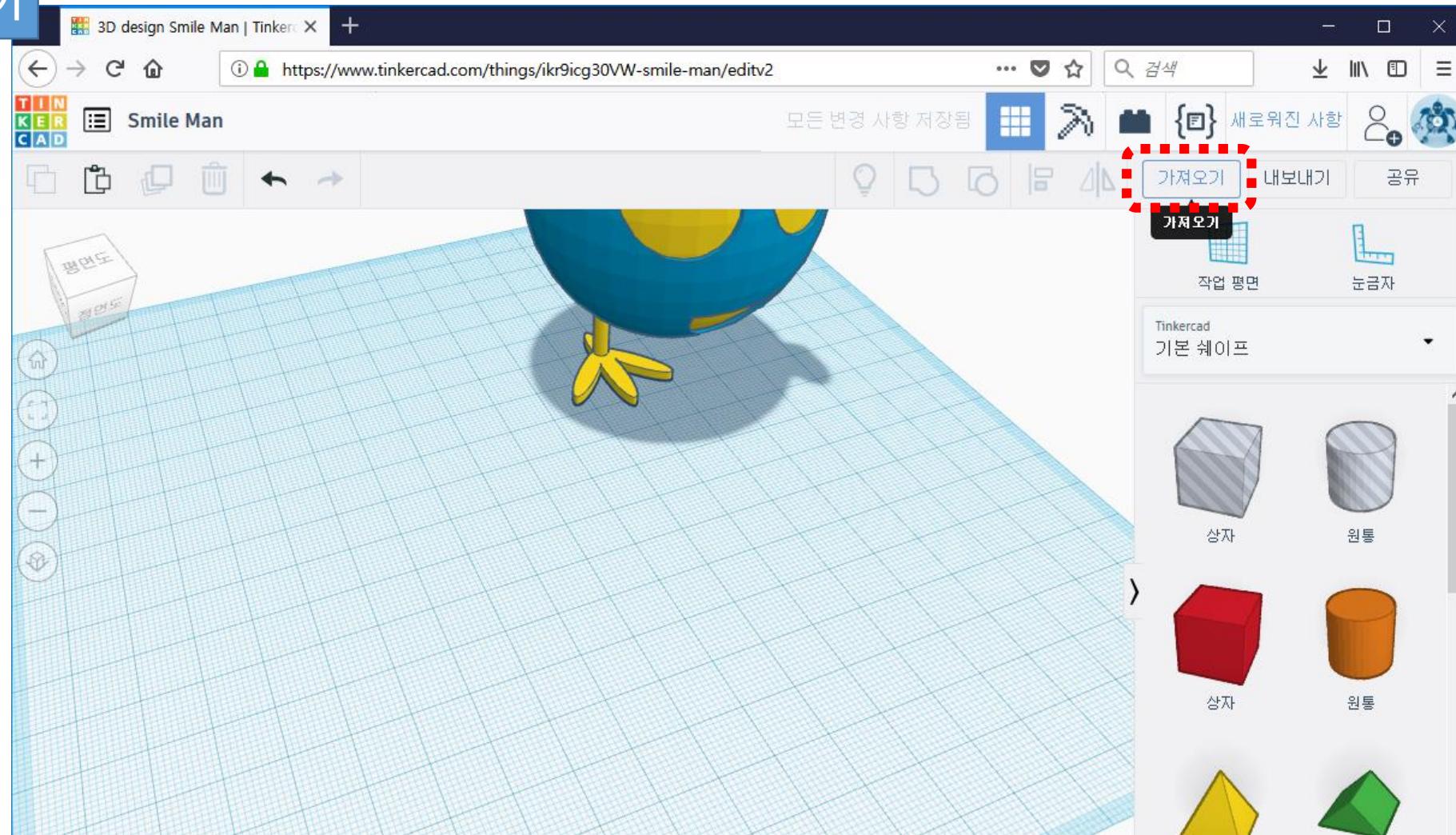




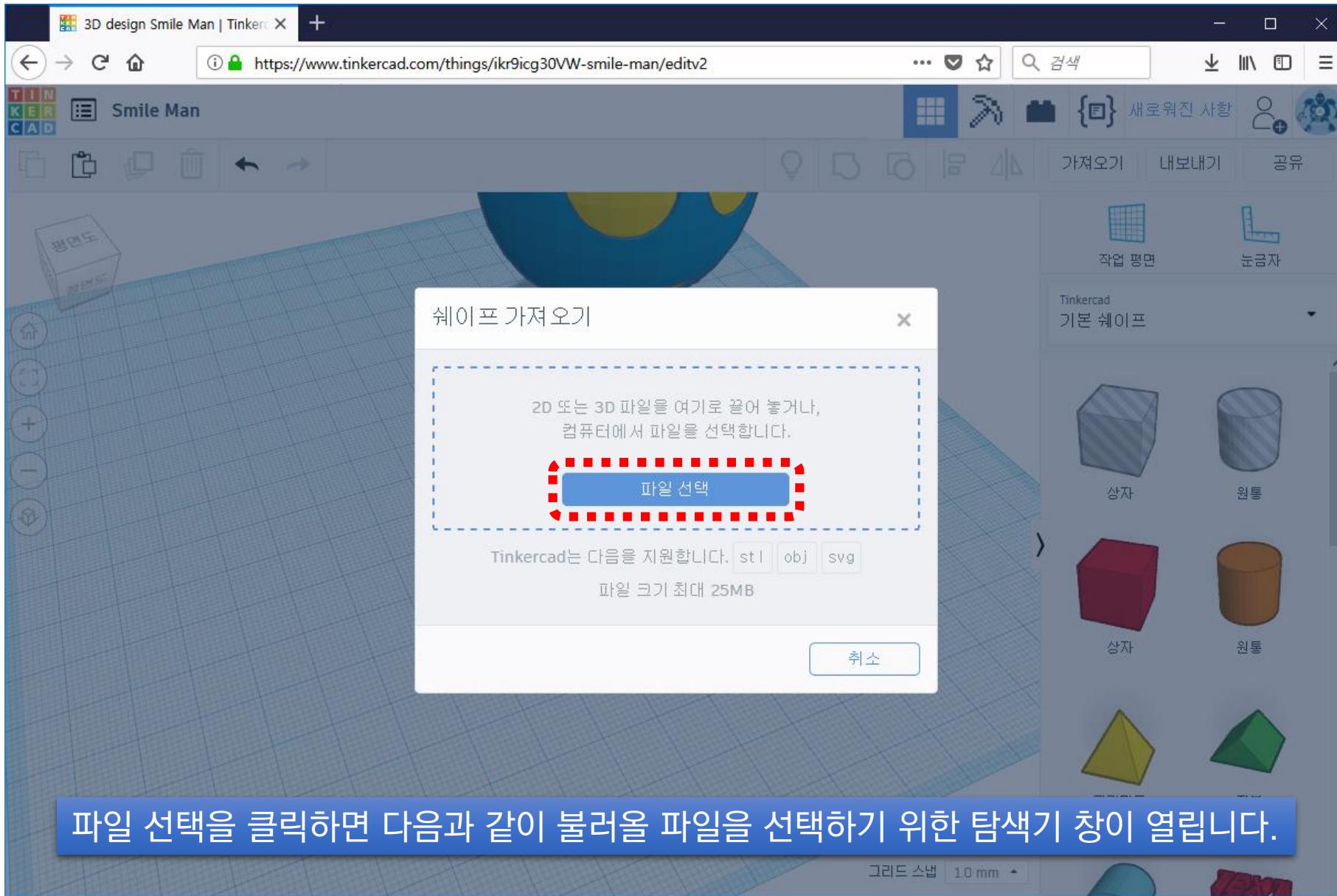
그룹화한 대상을 클릭한 다음 쉐이프 메뉴에서 솔리를 클릭하면,
위와 같이 색상을 선택할 수 있습니다.

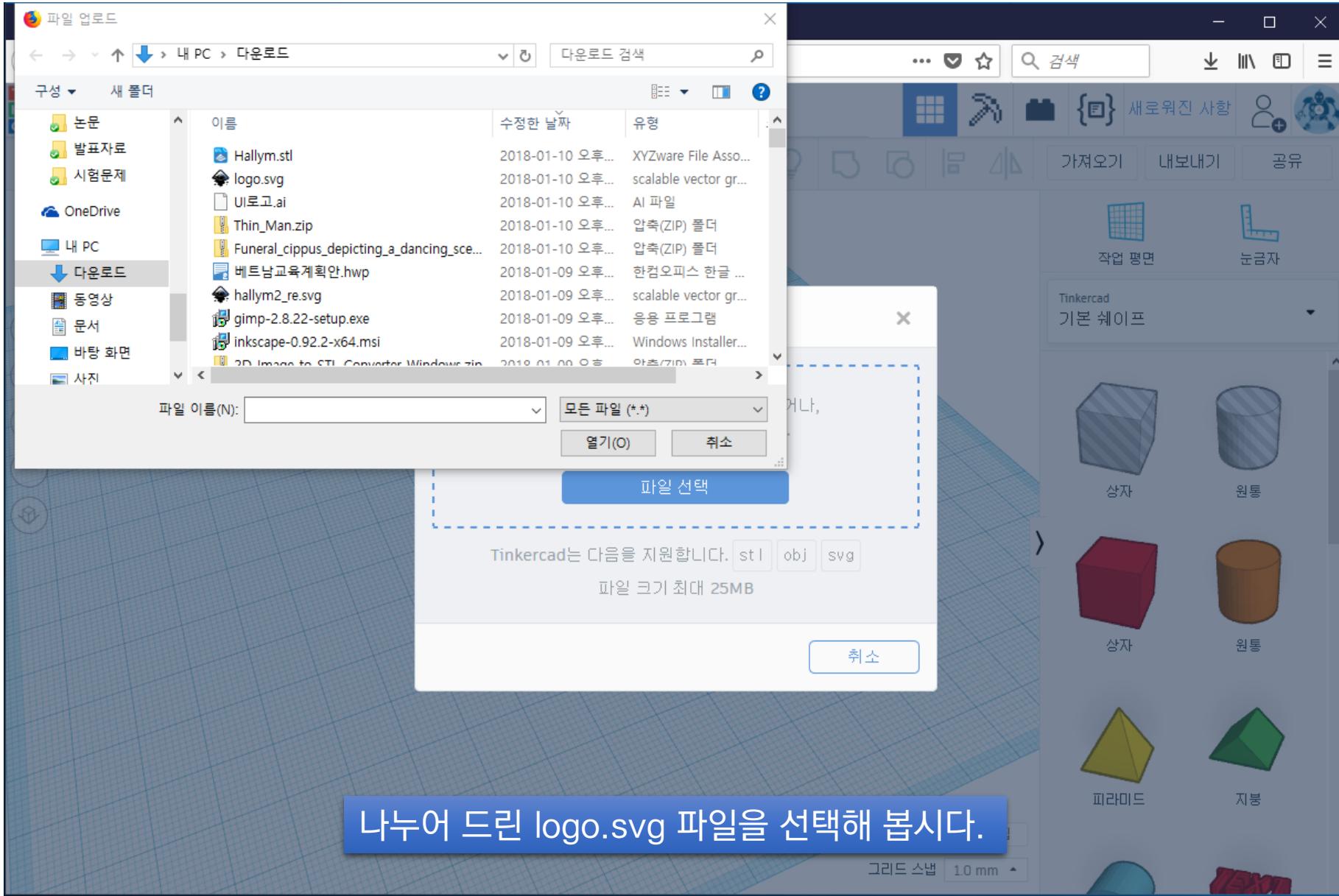


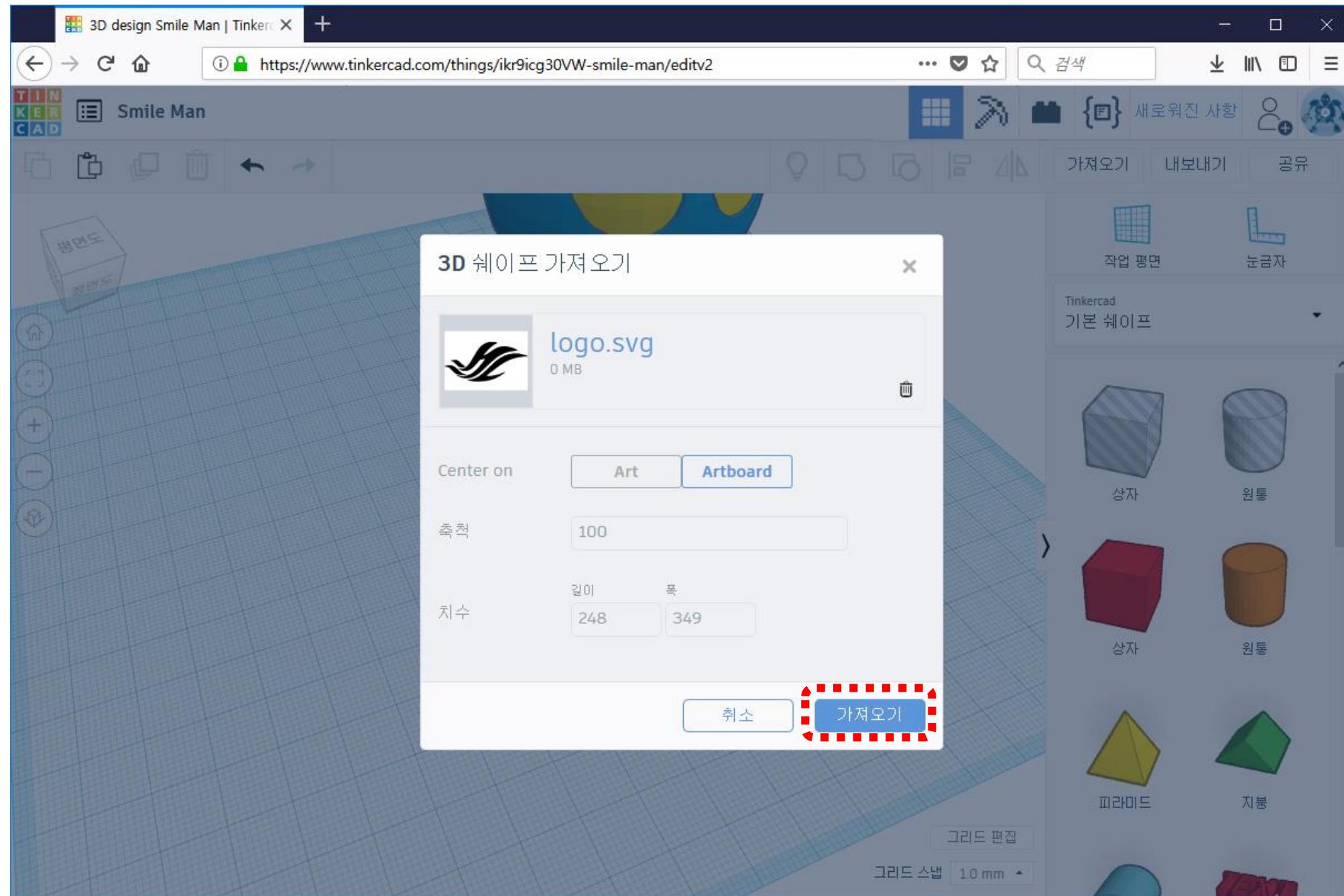
다른 파일 불러오기

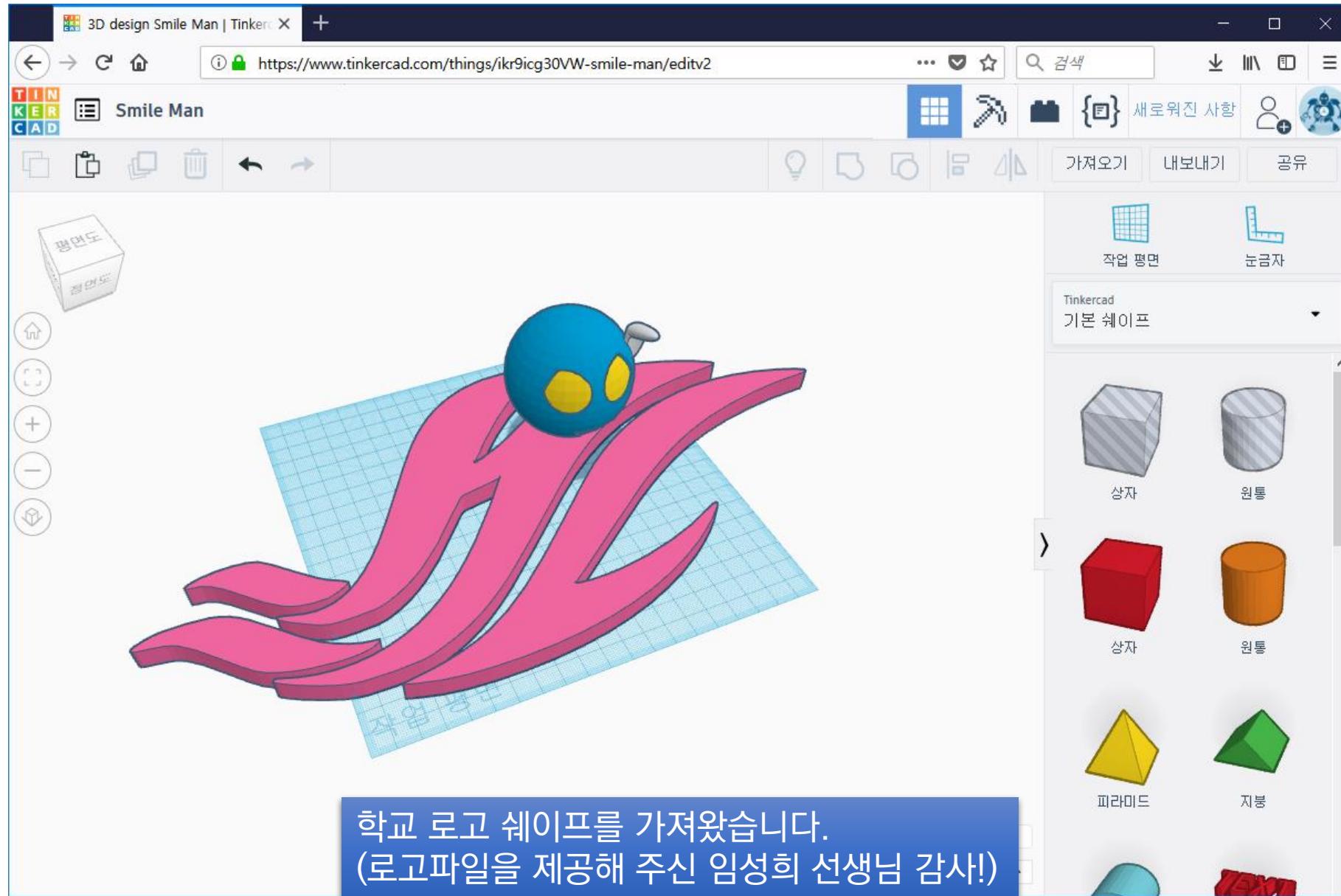


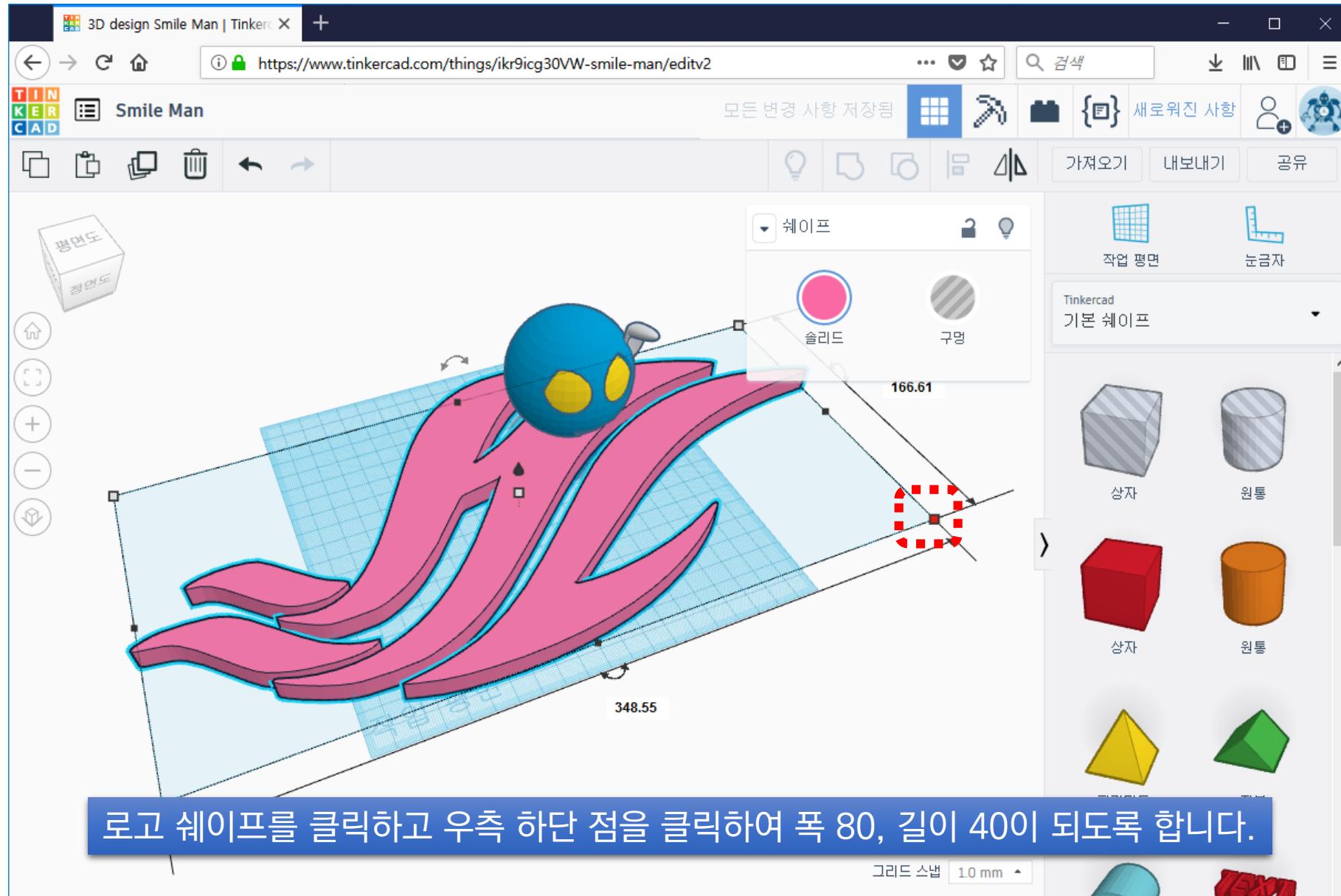
우측 상단의 가져오기 버튼을 클릭합니다.
최대 25MB 크기의 2D 이미지로 svg 파일과 3D 객체로 stl, obj 파일을 가져올 수 있습니다.

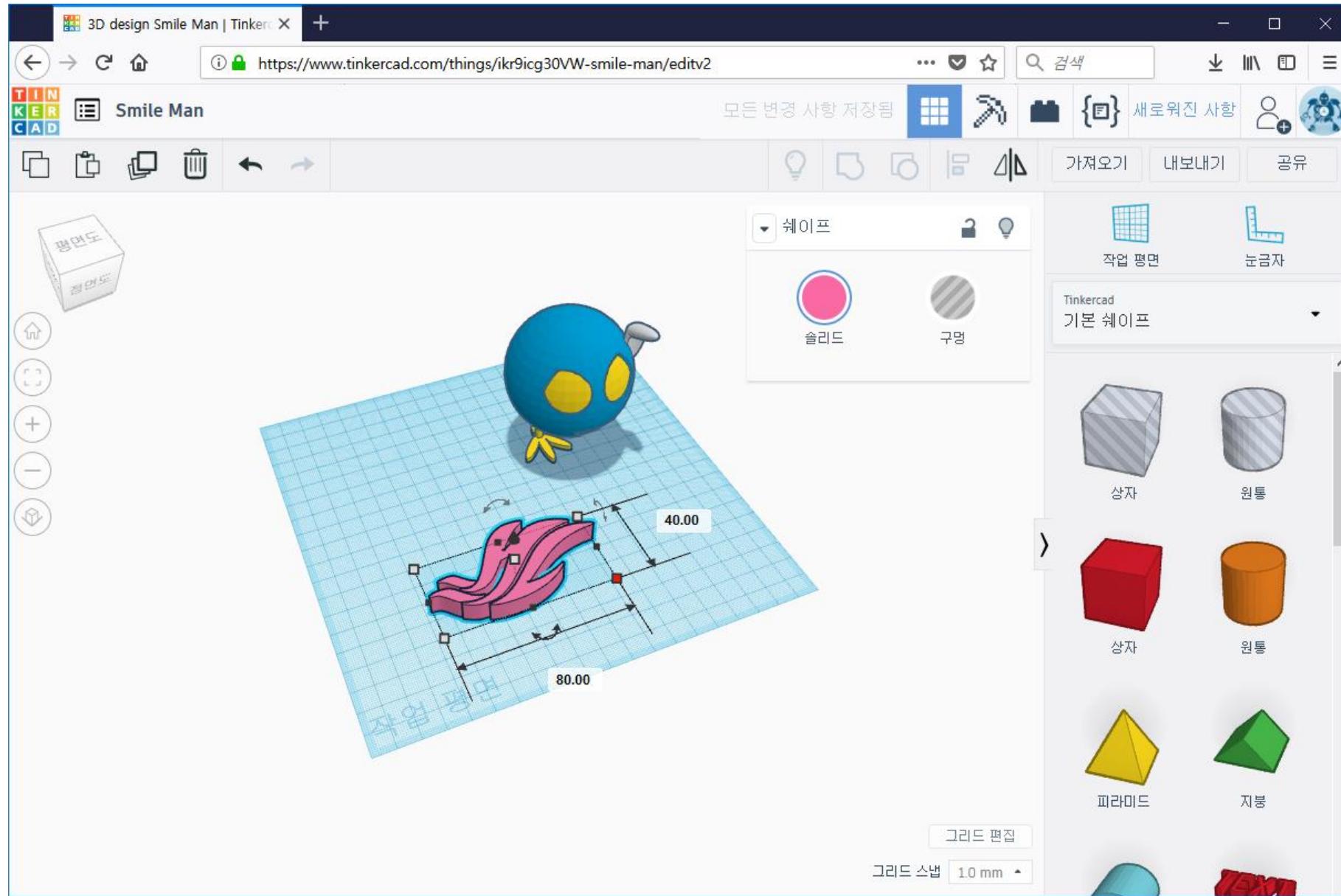




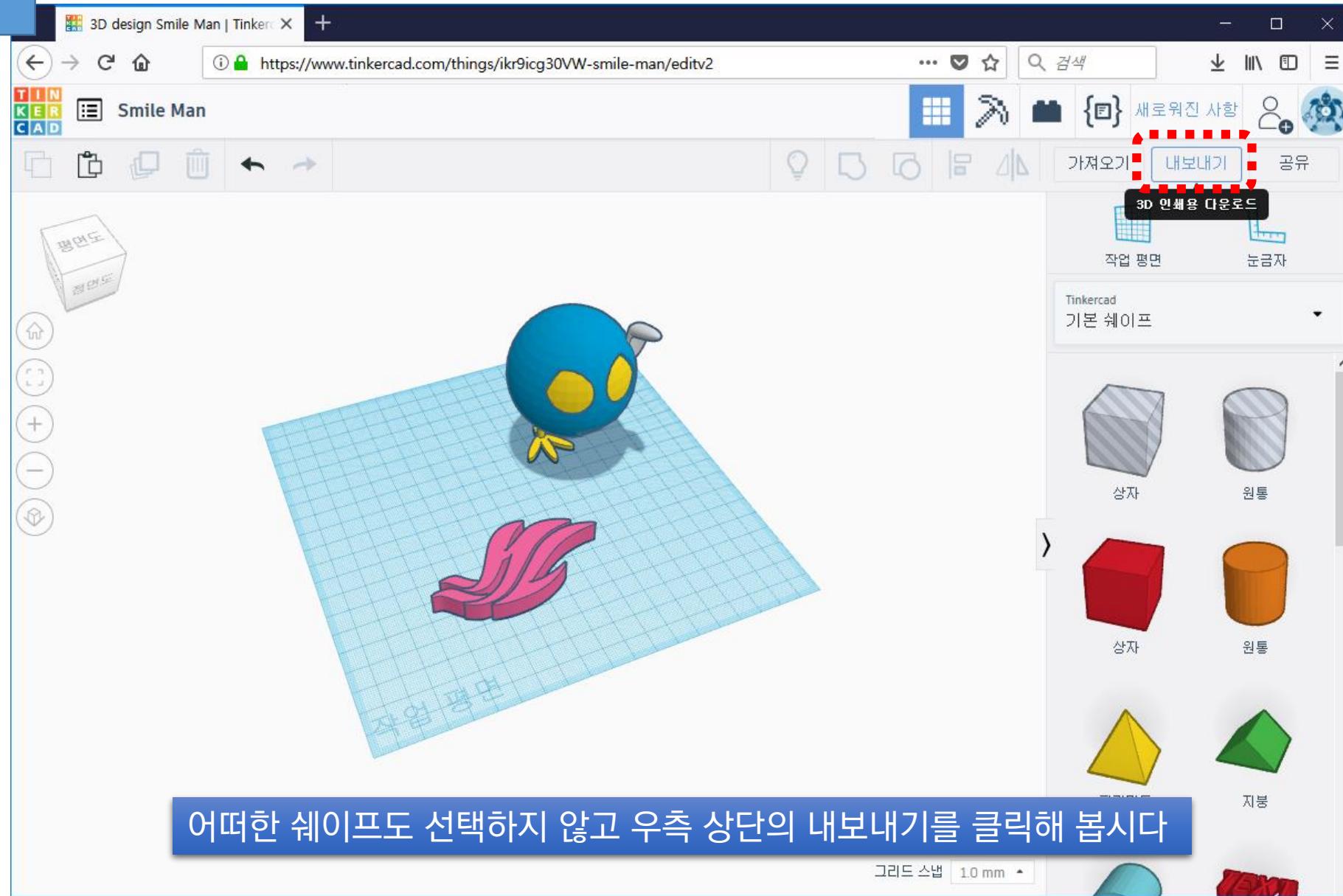


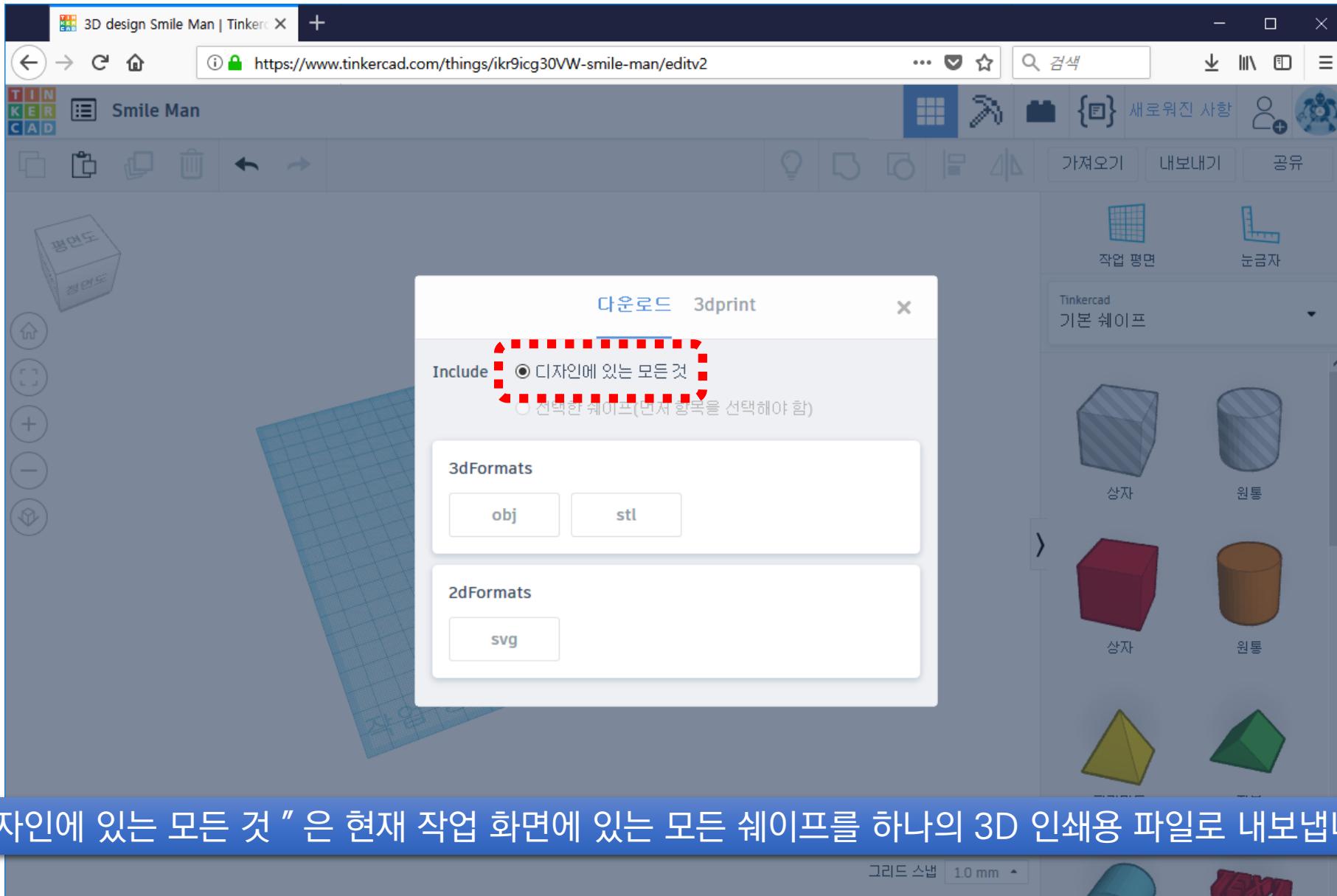


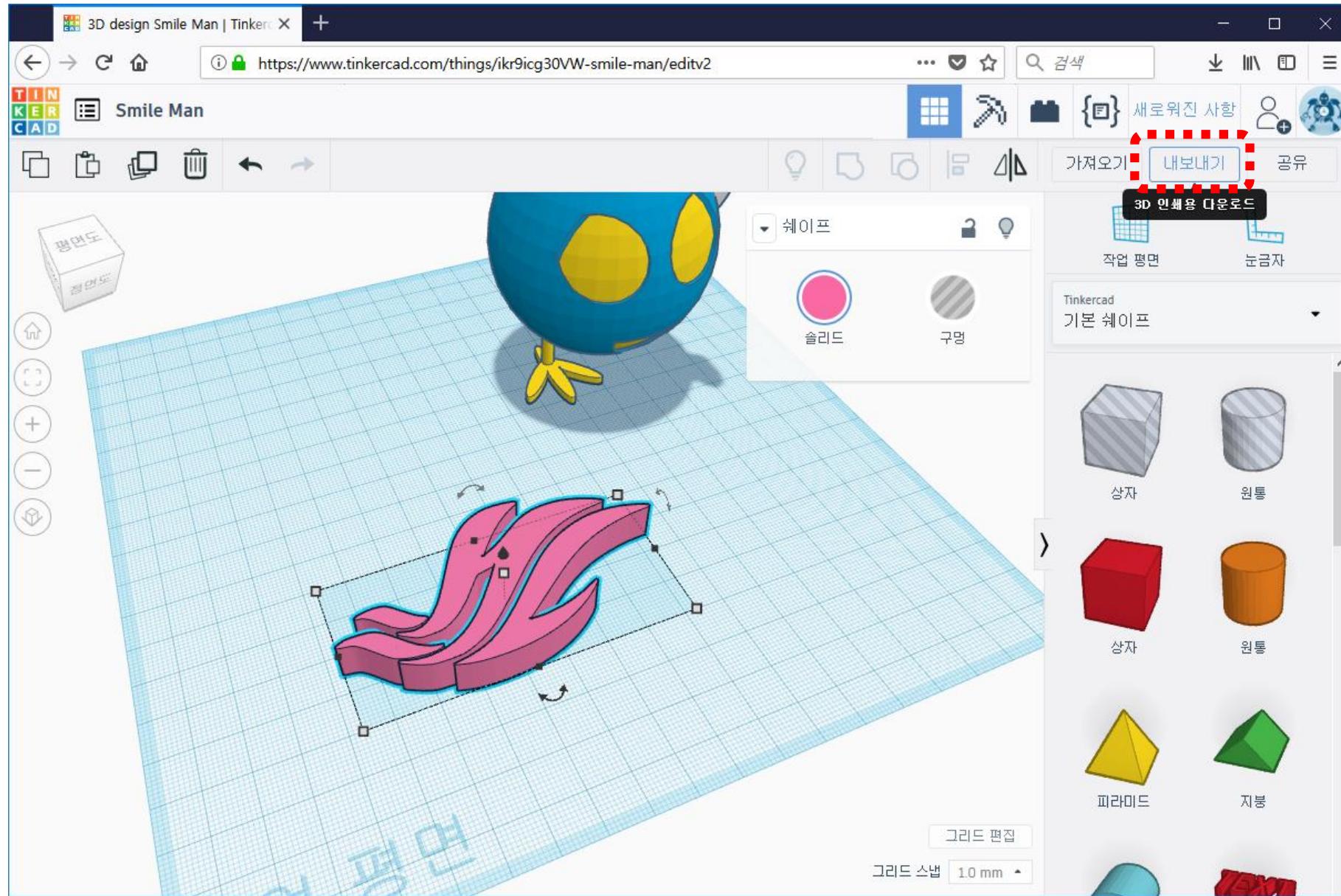


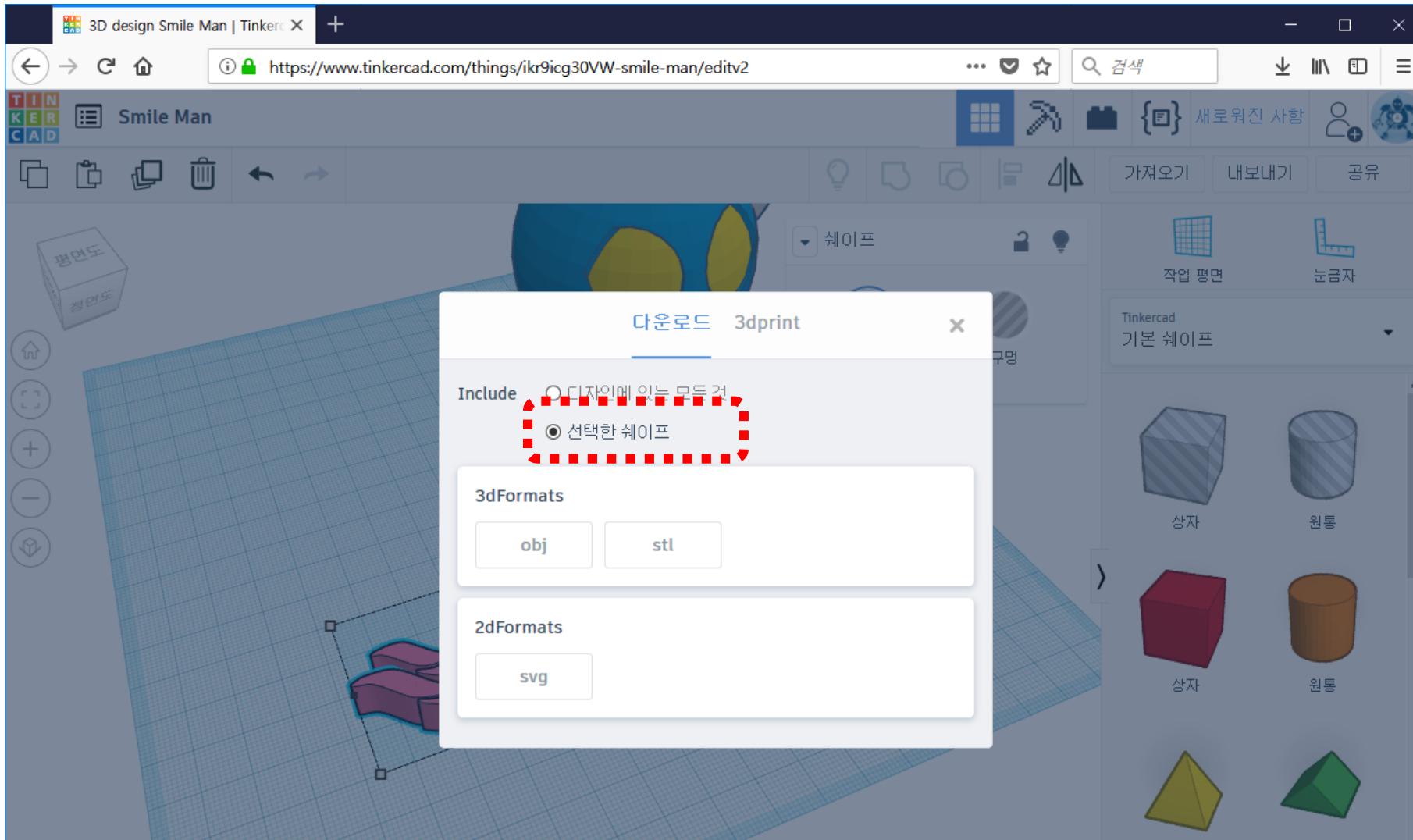


내보내기

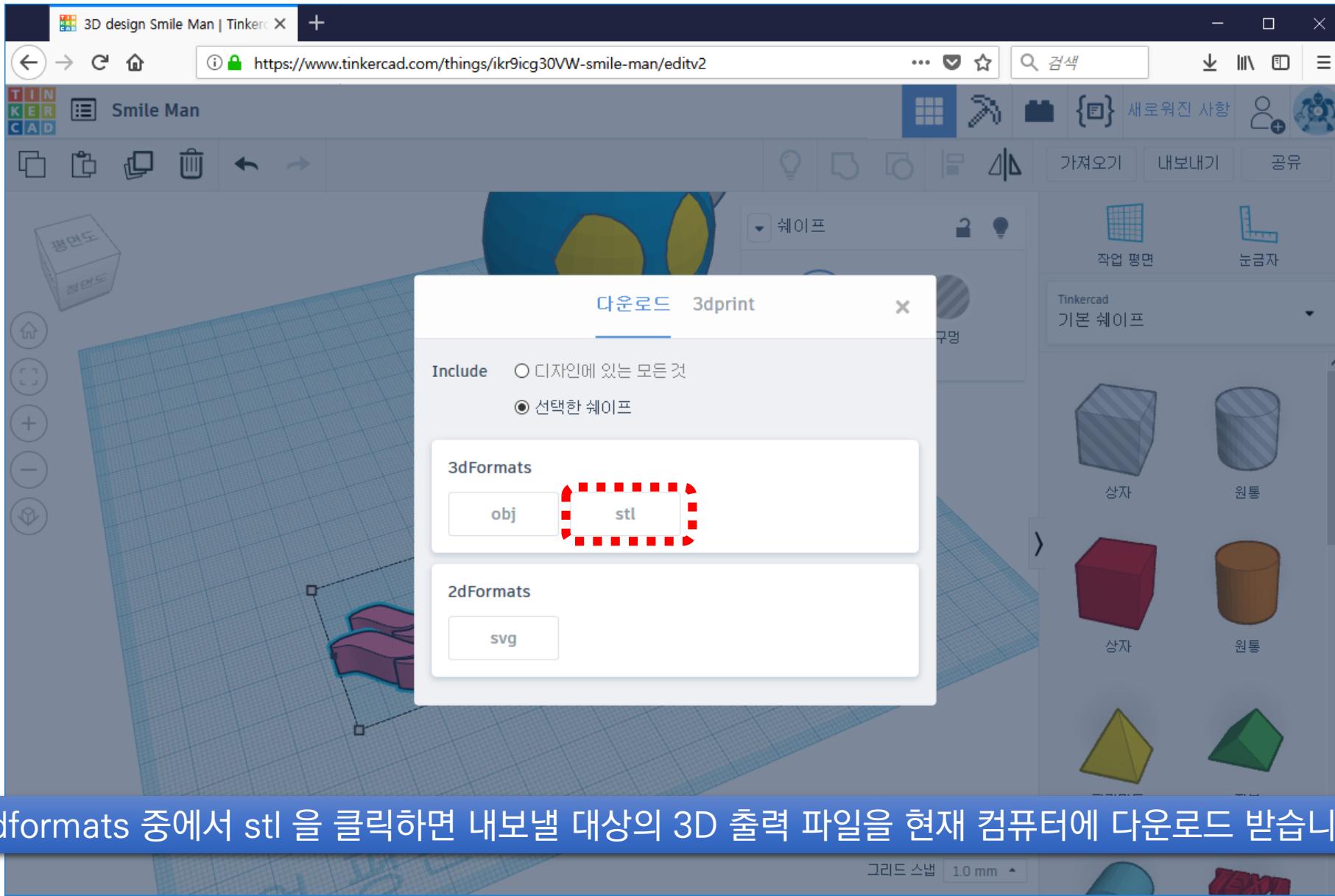






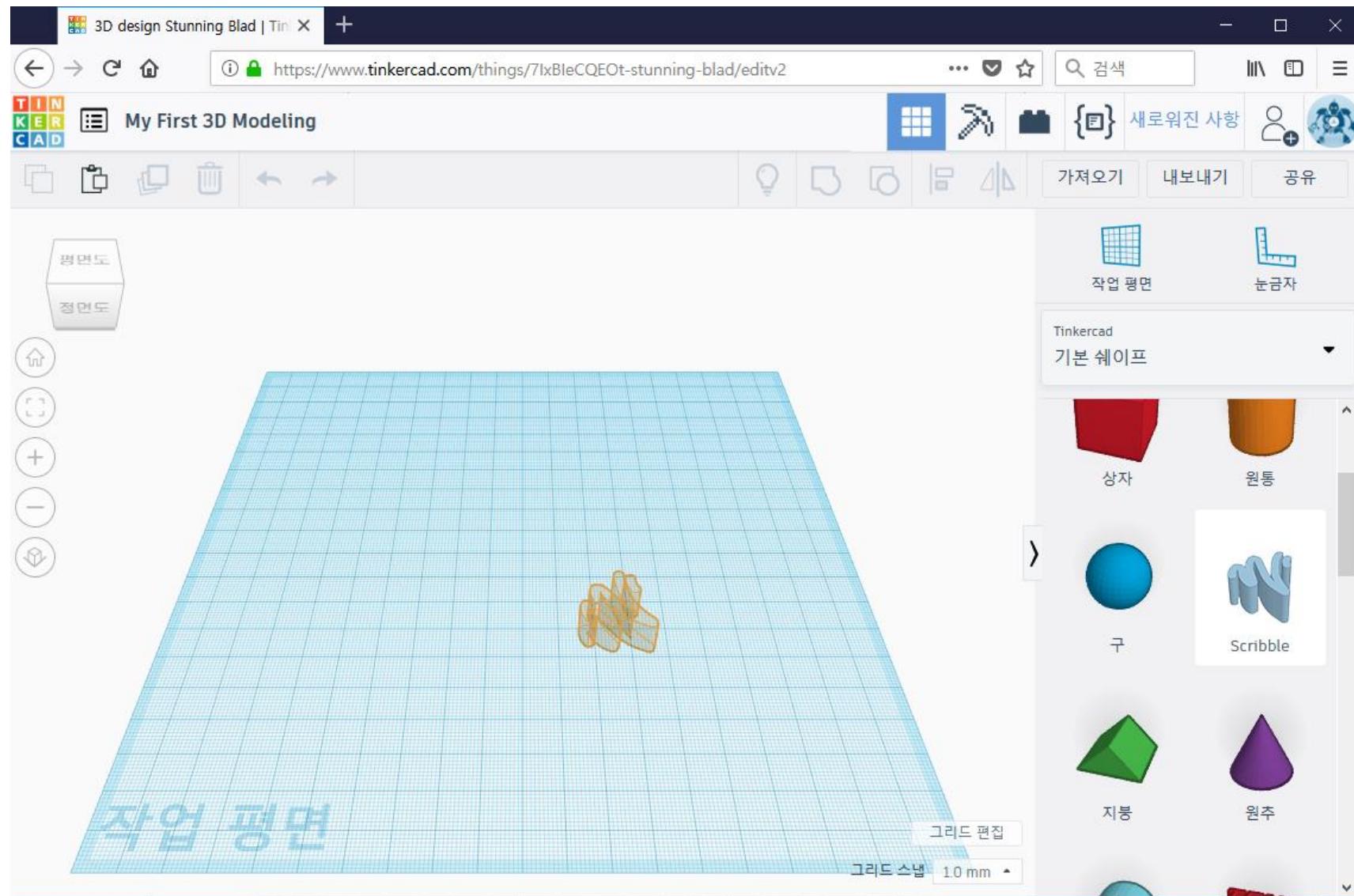


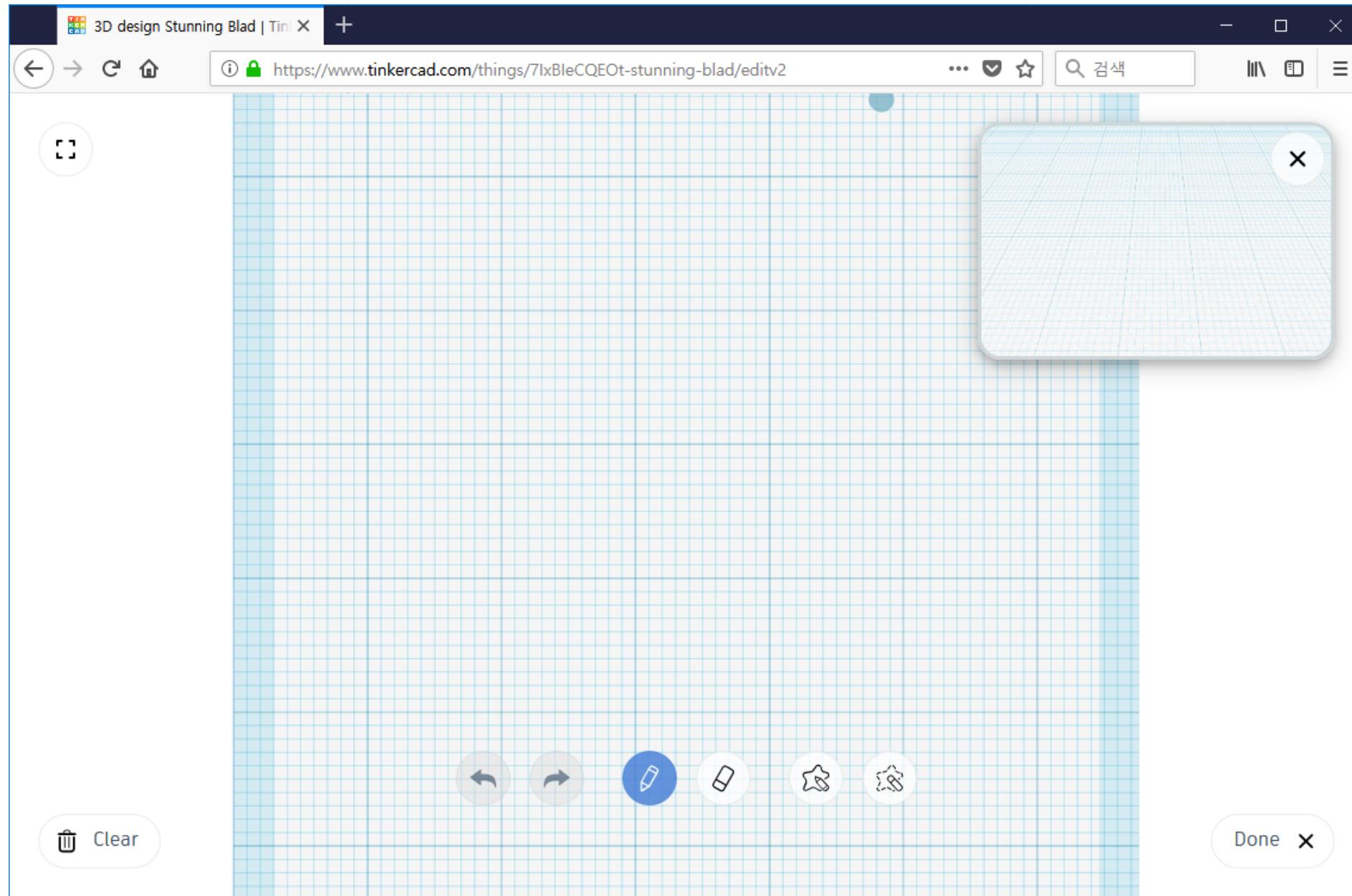
“선택한 쉐이프”는 사용자가 내보내기 이전에 선택한 쉐이프 하나만 3D 출력용 파일로 내보냅니다.
보통 많이 사용하는 방식입니다.

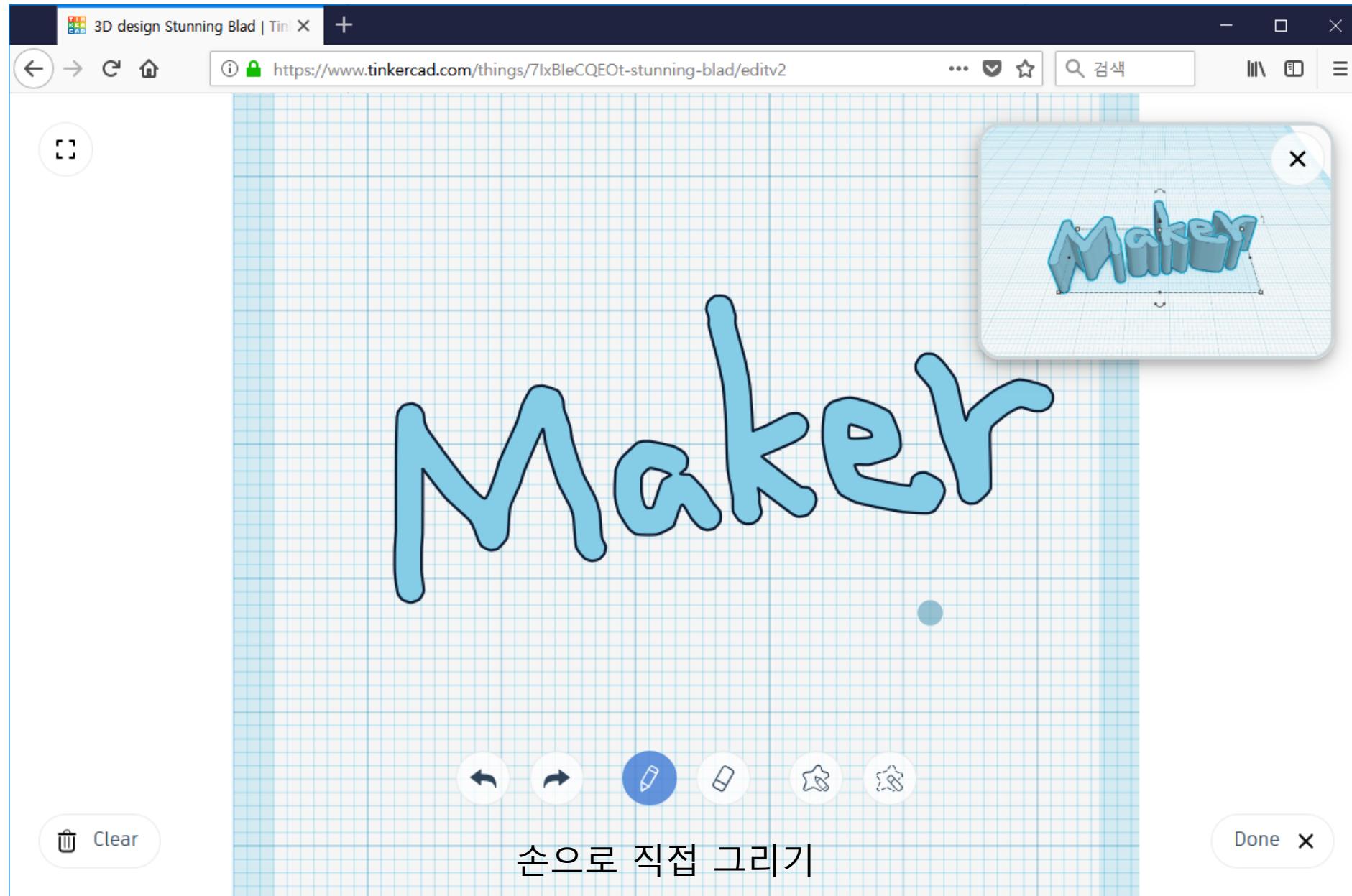


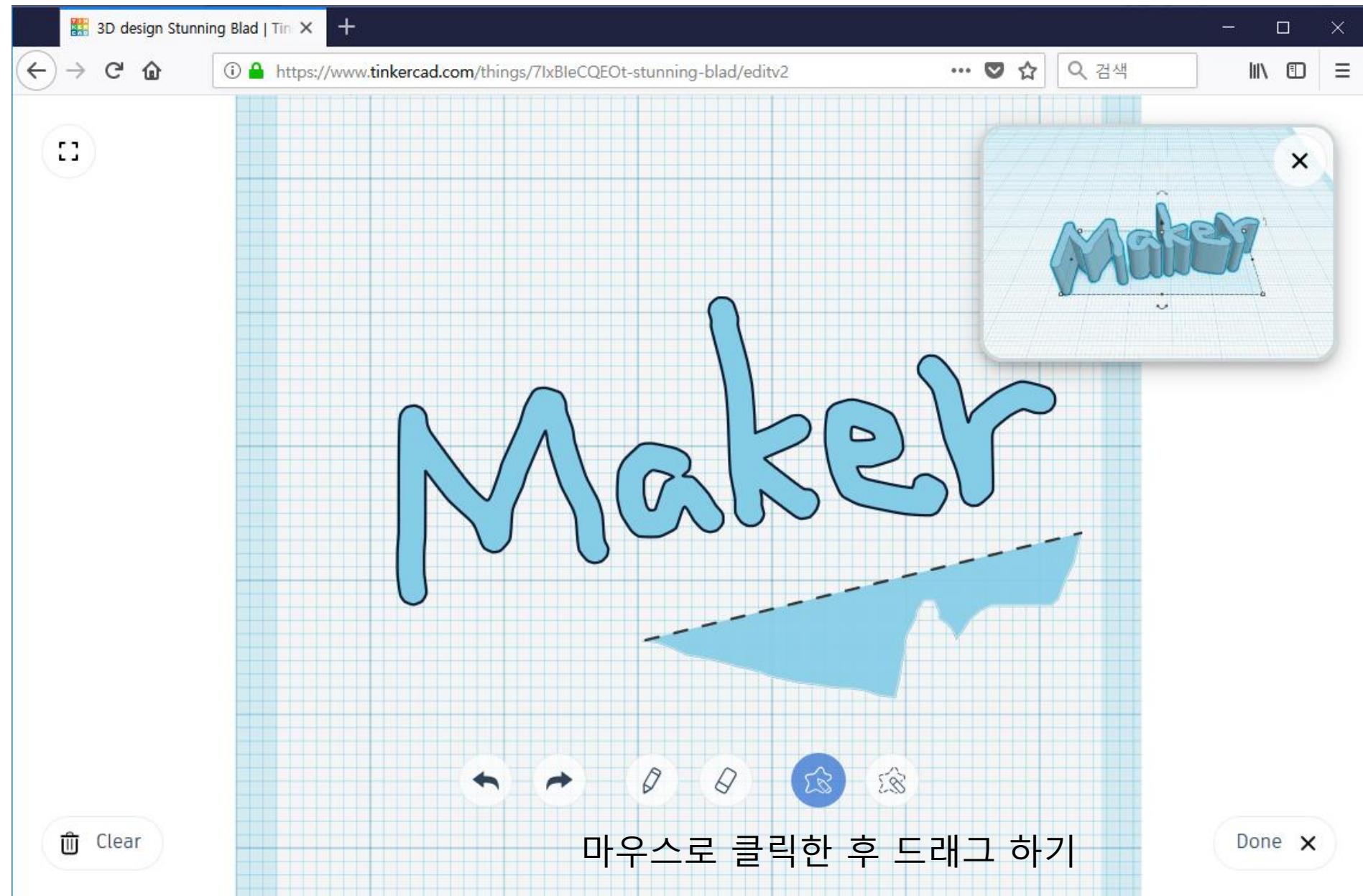
3dformats 중에서 stl 을 클릭하면 내보낼 대상의 3D 출력 파일을 현재 컴퓨터에 다운로드 받습니다.

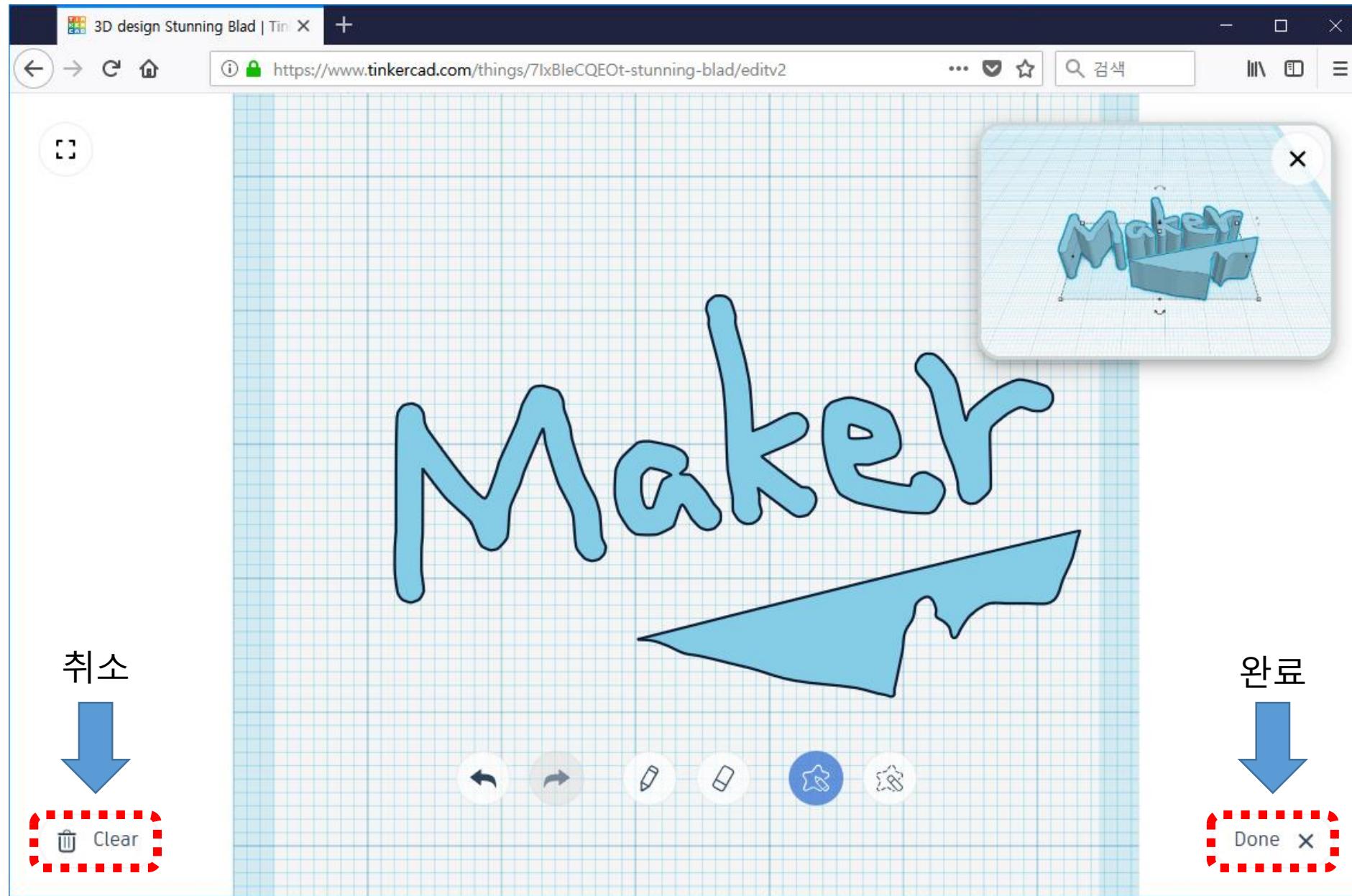
원하는 모양을 그리는 Scribble

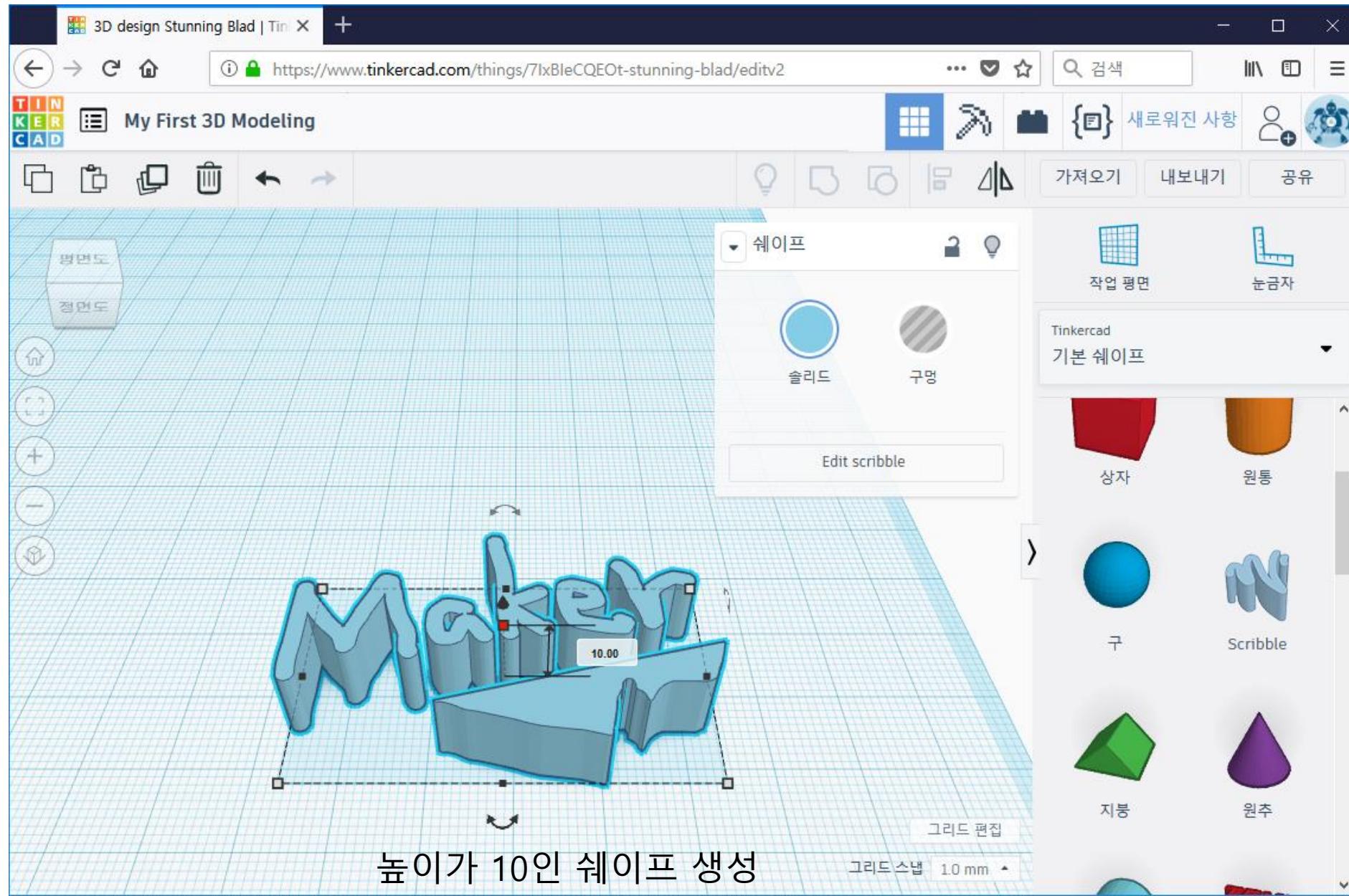












쉐이프 편집화면



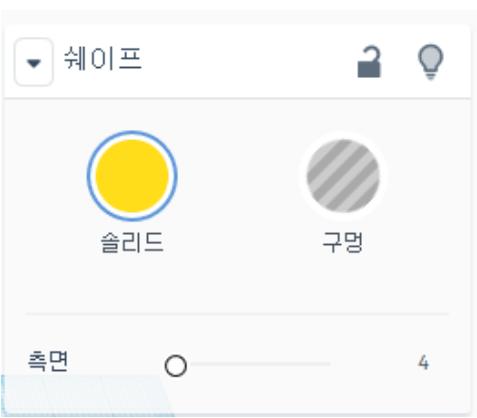
구



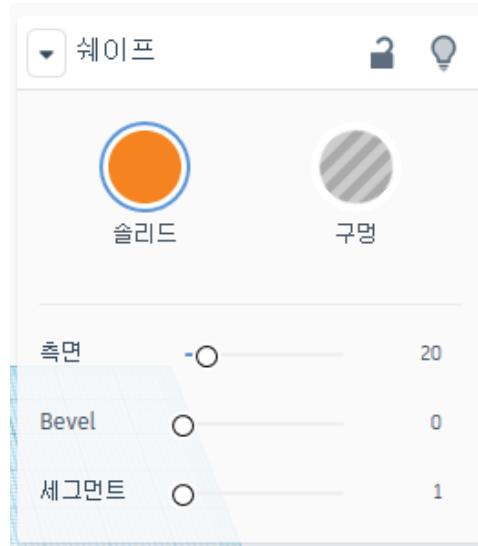
원주



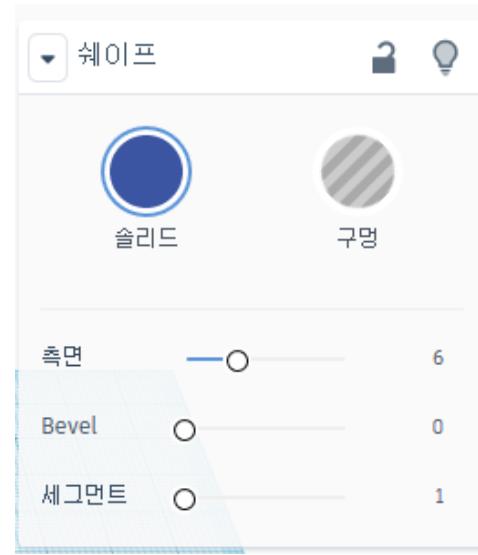
상자



피라미드



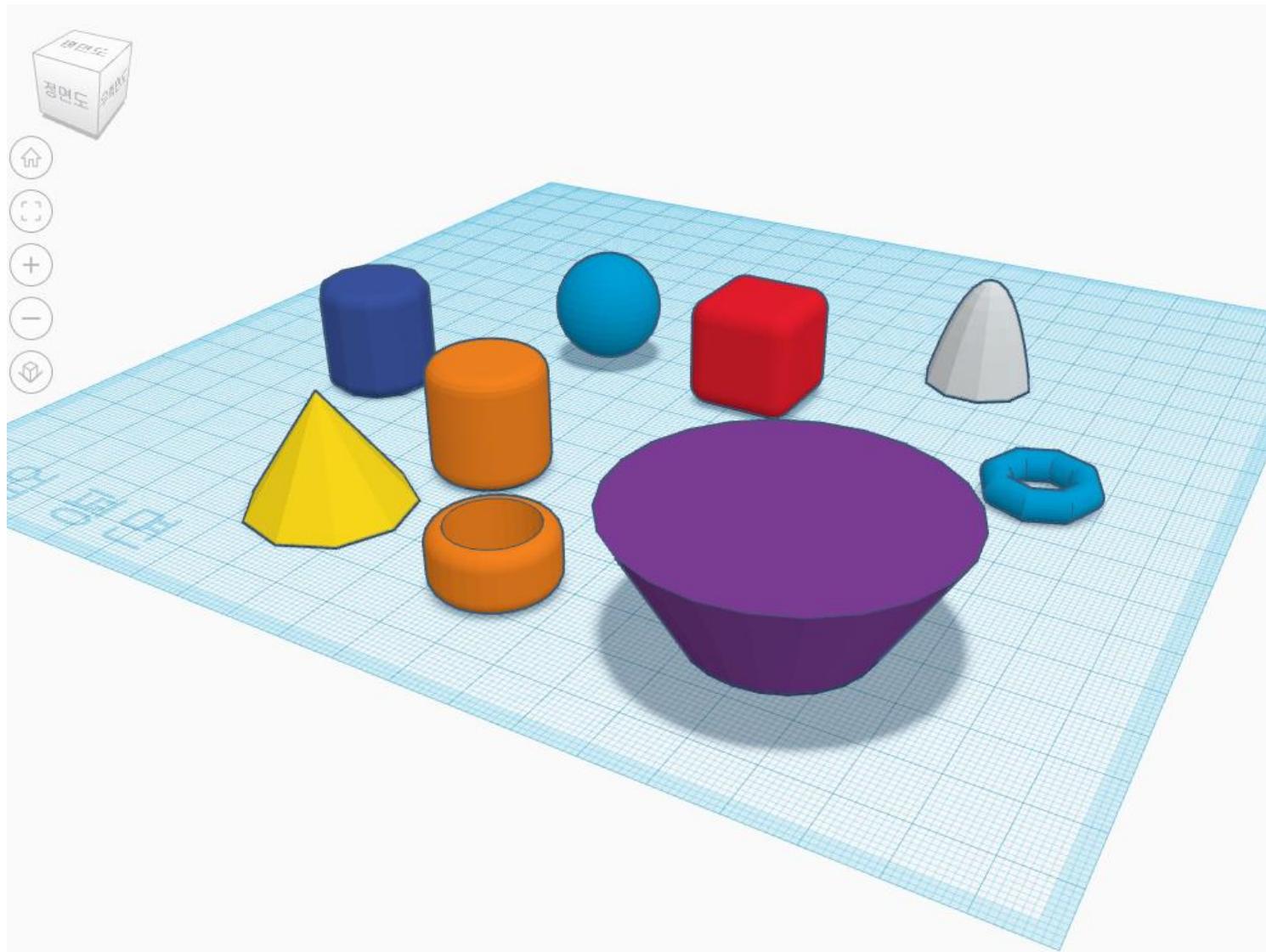
원통



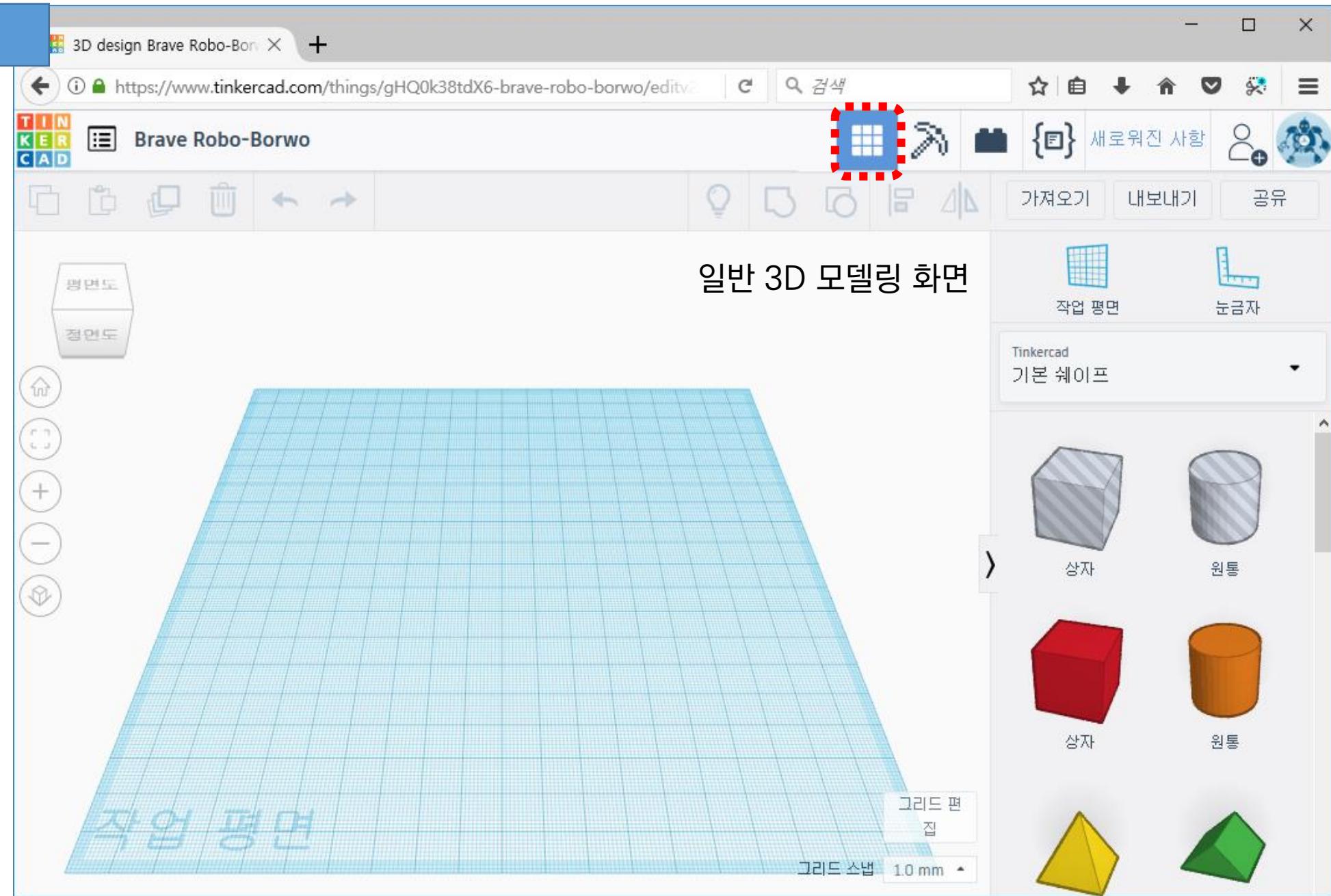
폴리곤

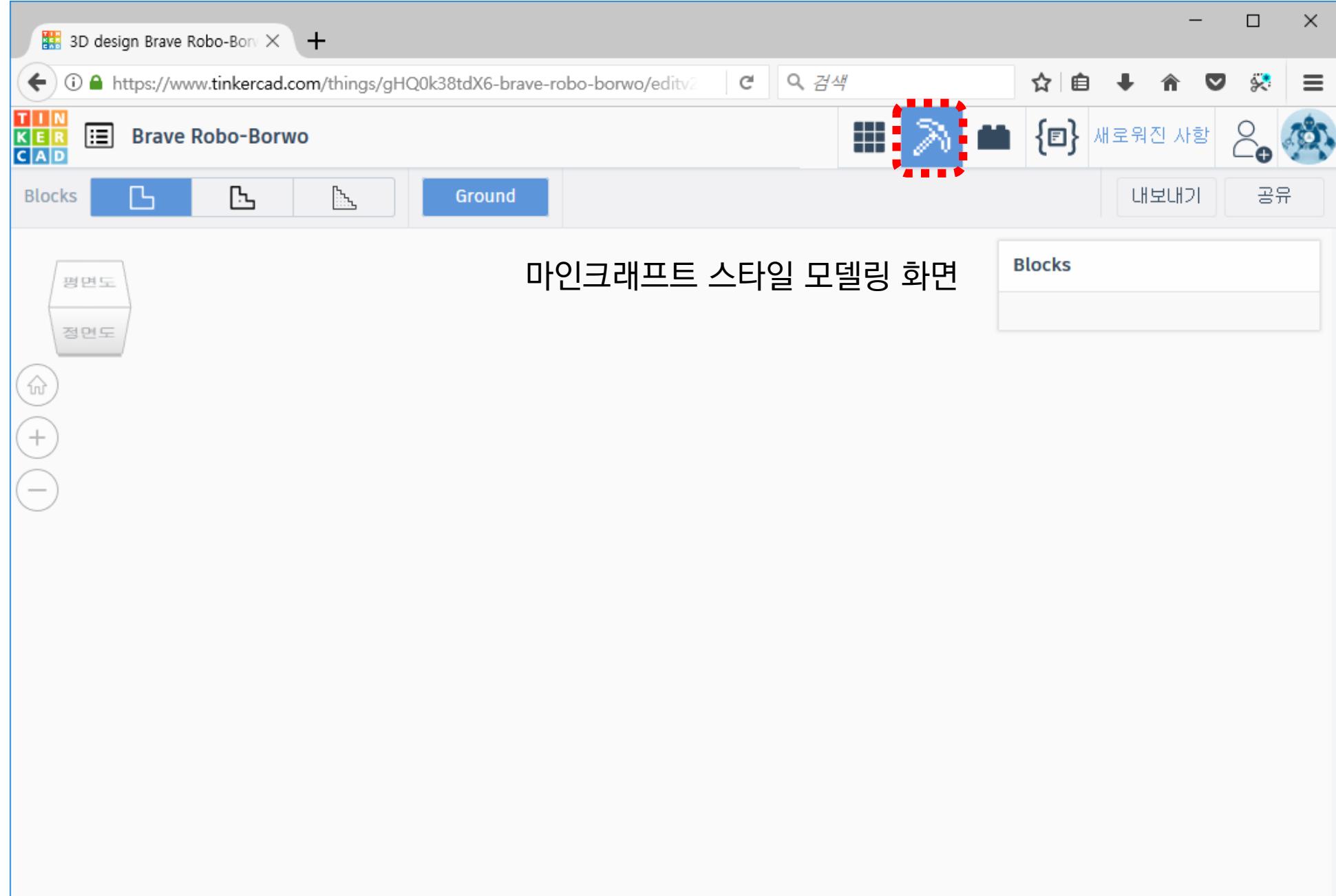


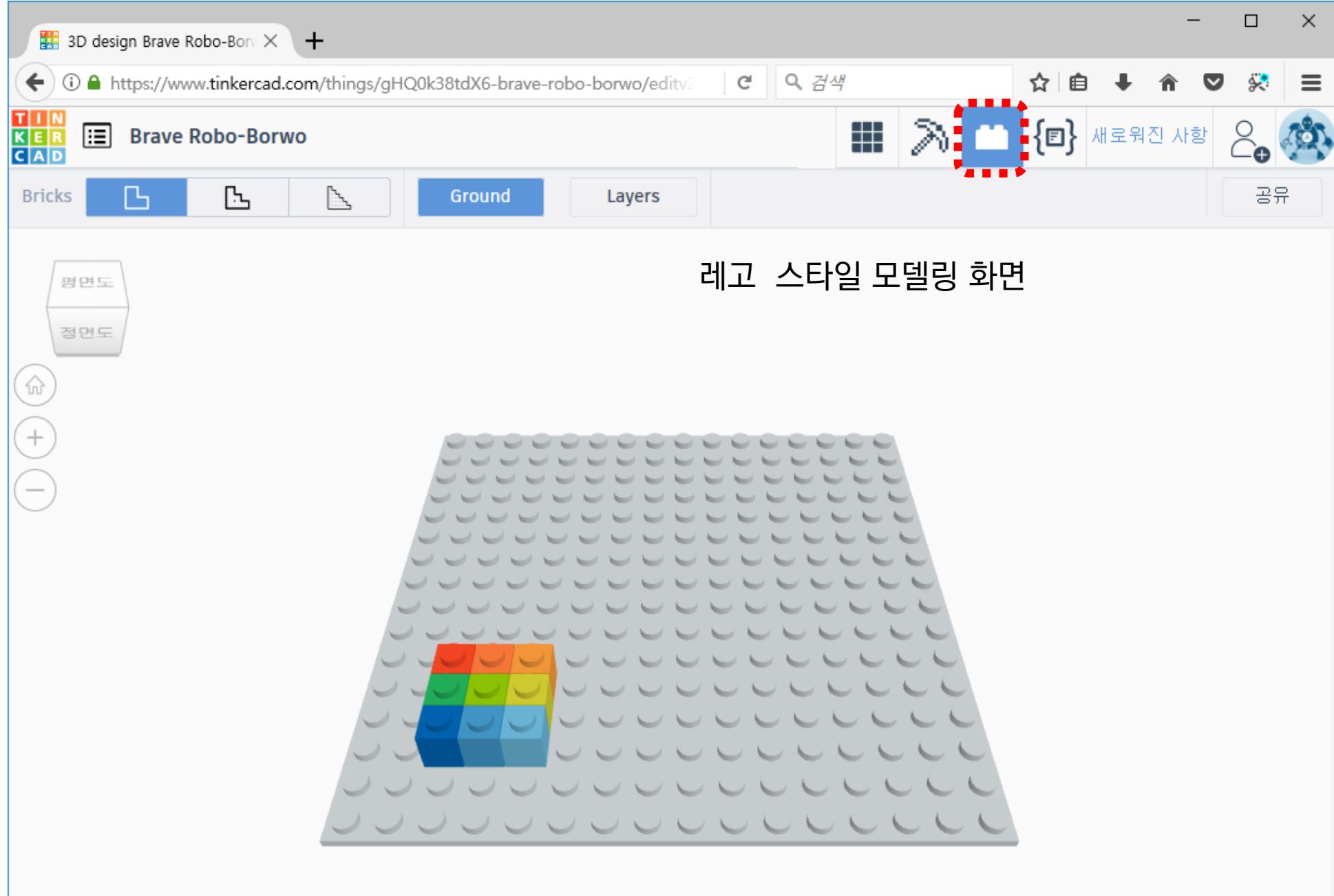
튜브



화면 구성







Youtube 채널 “메이커 다은쌤” 추천합니다

수고하셨습니다.

다음은 3D 프린터를 이용한 출력에 대해 알아보겠습니다.