

태극기 모델링 프로젝트

19.06.01

조덕수

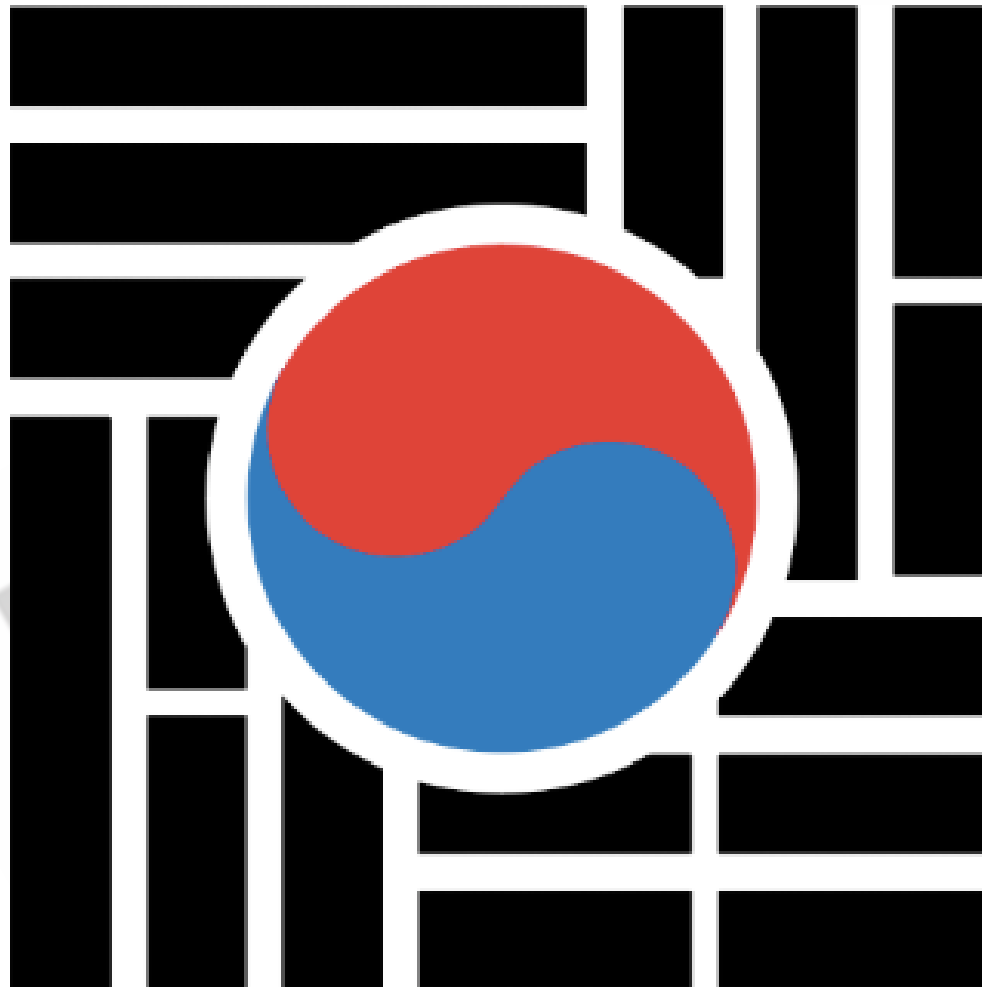
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모델링 공부

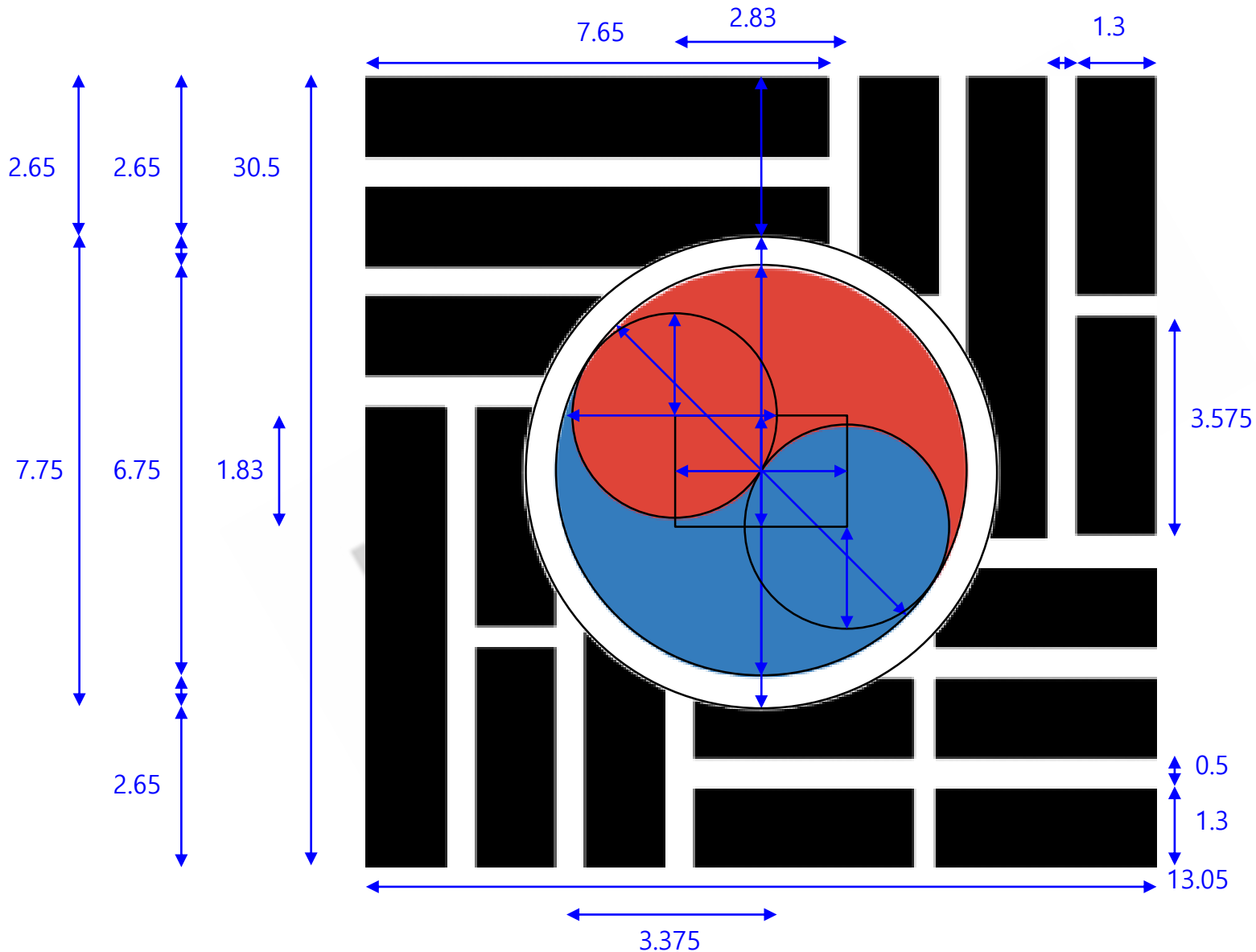
- ❖ 태극기 모델링 프로젝트 복습-태극기 치수정의
- ❖ 태극기 모델링하기
- ❖ 태극기 STL 만들기
- ❖ Solidwork xDesign 준비하기: 가입하기
- ❖ 조구성 하기
- ❖ 프로젝트 기획하기

https://github.com/Jodeoksu/jangan_edu

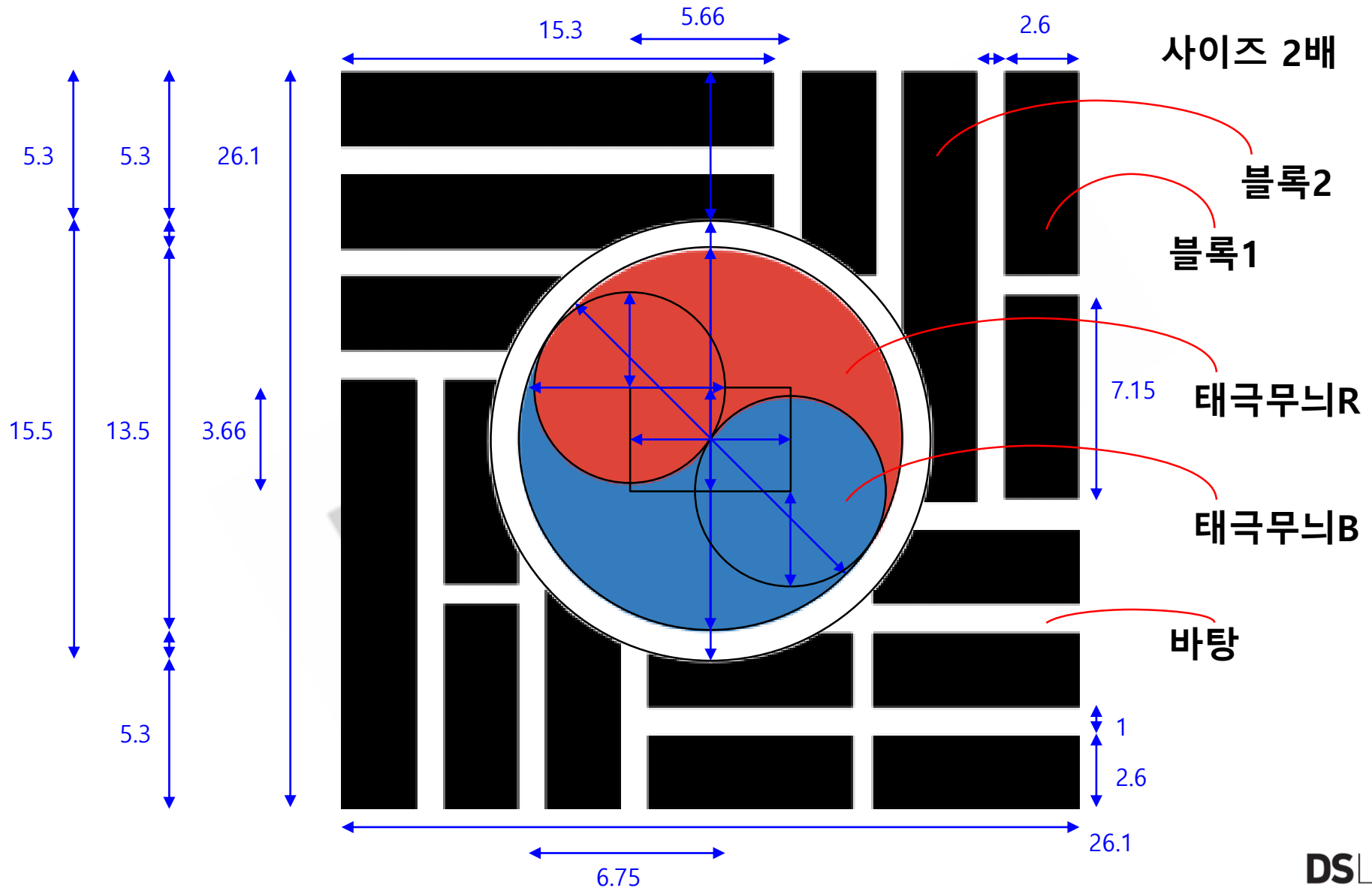
태극기 치수정의(모델 사이즈 결정짓기)



태극기 치수정의(모델 사이즈 결정짓기)



태극기 치수정의(모델 사이즈 결정짓기)



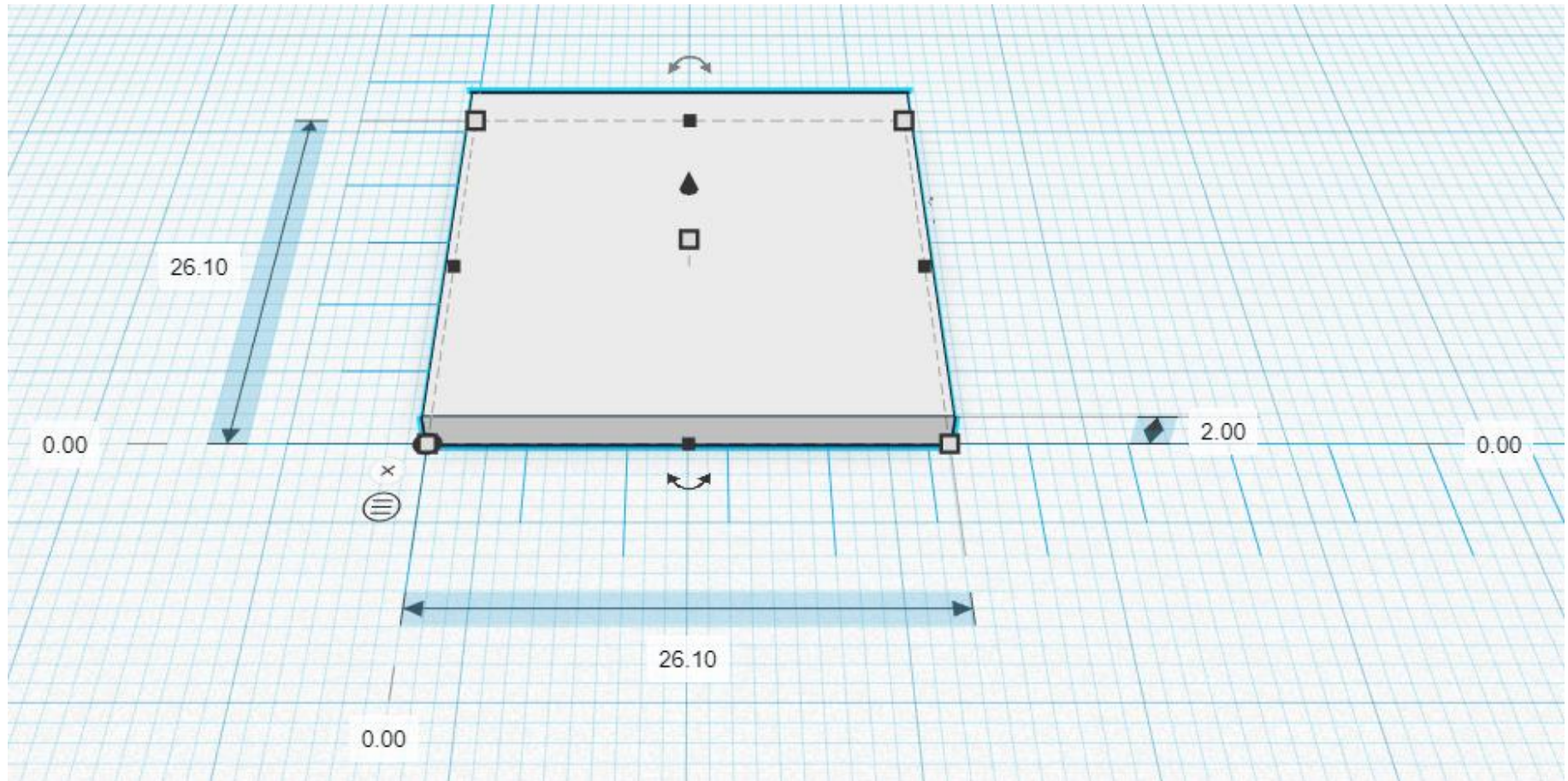
태극기 모델링하기

DSL^{LAB}

태극기 디자인하기

❖ 태극기

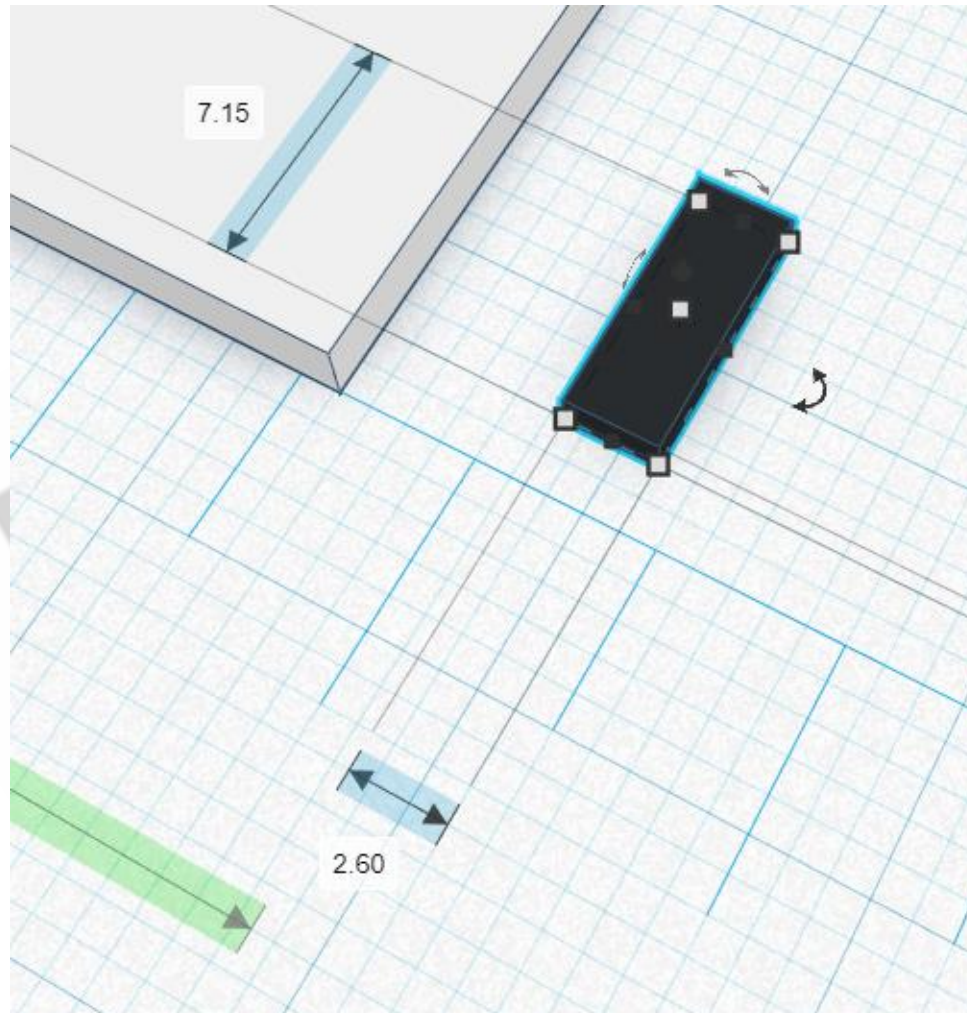
- 작업평면에 상자 배치 바탕(흰색) 만들기 : 가로 26.1mm, 세로 26.1mm, 높이 2mm



태극기 디자인하기

❖ 태극기

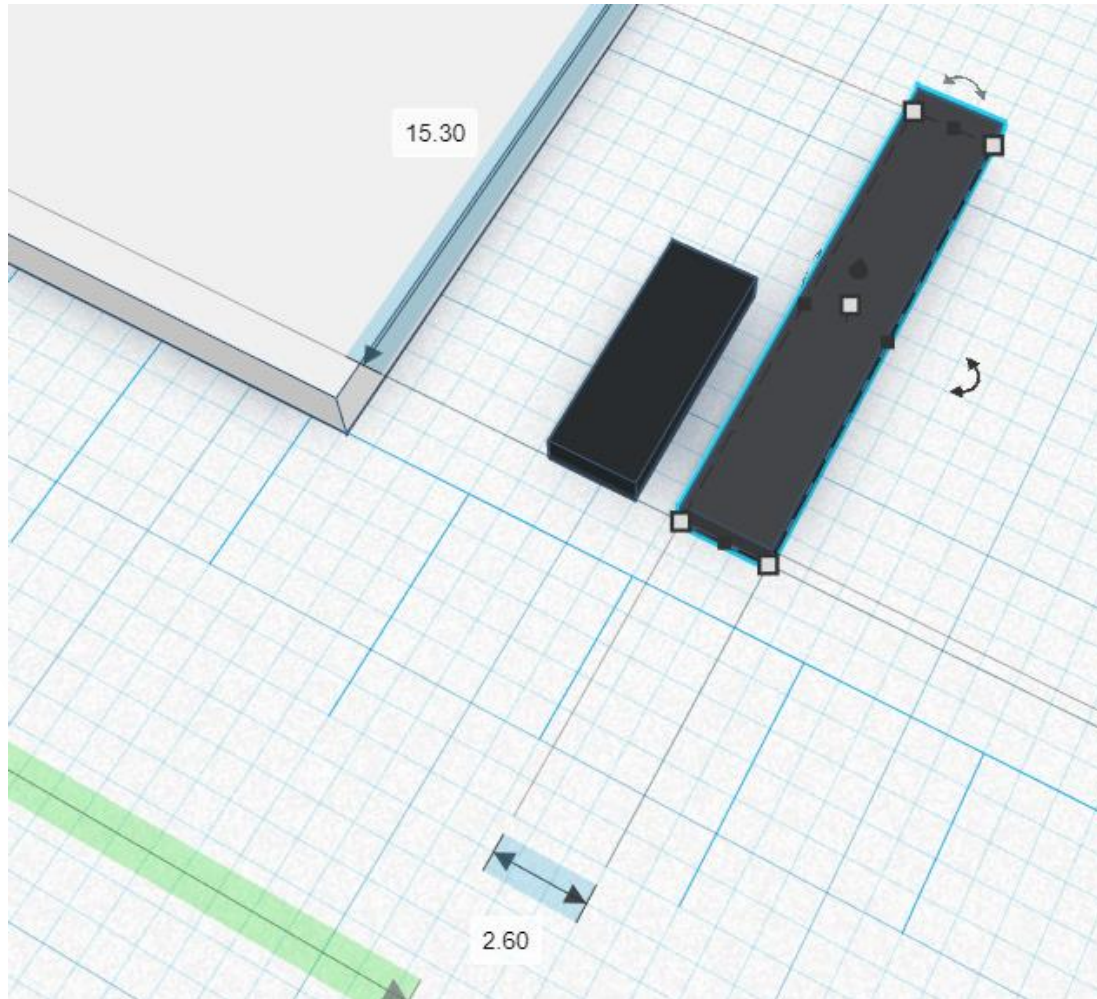
- 작업평면에 블록1(검정) 만들기 : 가로 2.6mm, 세로 7.15mm, 높이 1mm



태극기 디자인하기

❖ 태극기

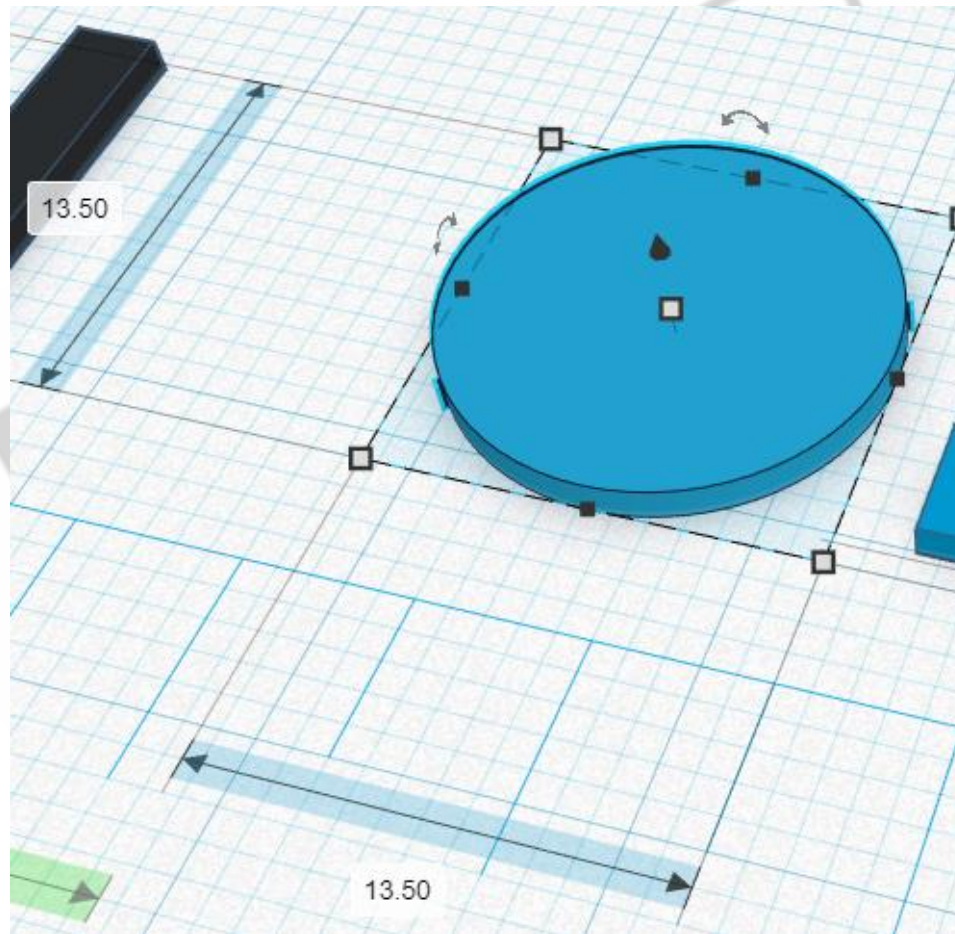
- 작업평면에 블록2(검정) 만들기 : 가로 2.6mm, 세로 15.3mm, 높이 1mm



태극기 디자인하기

❖ 태극기

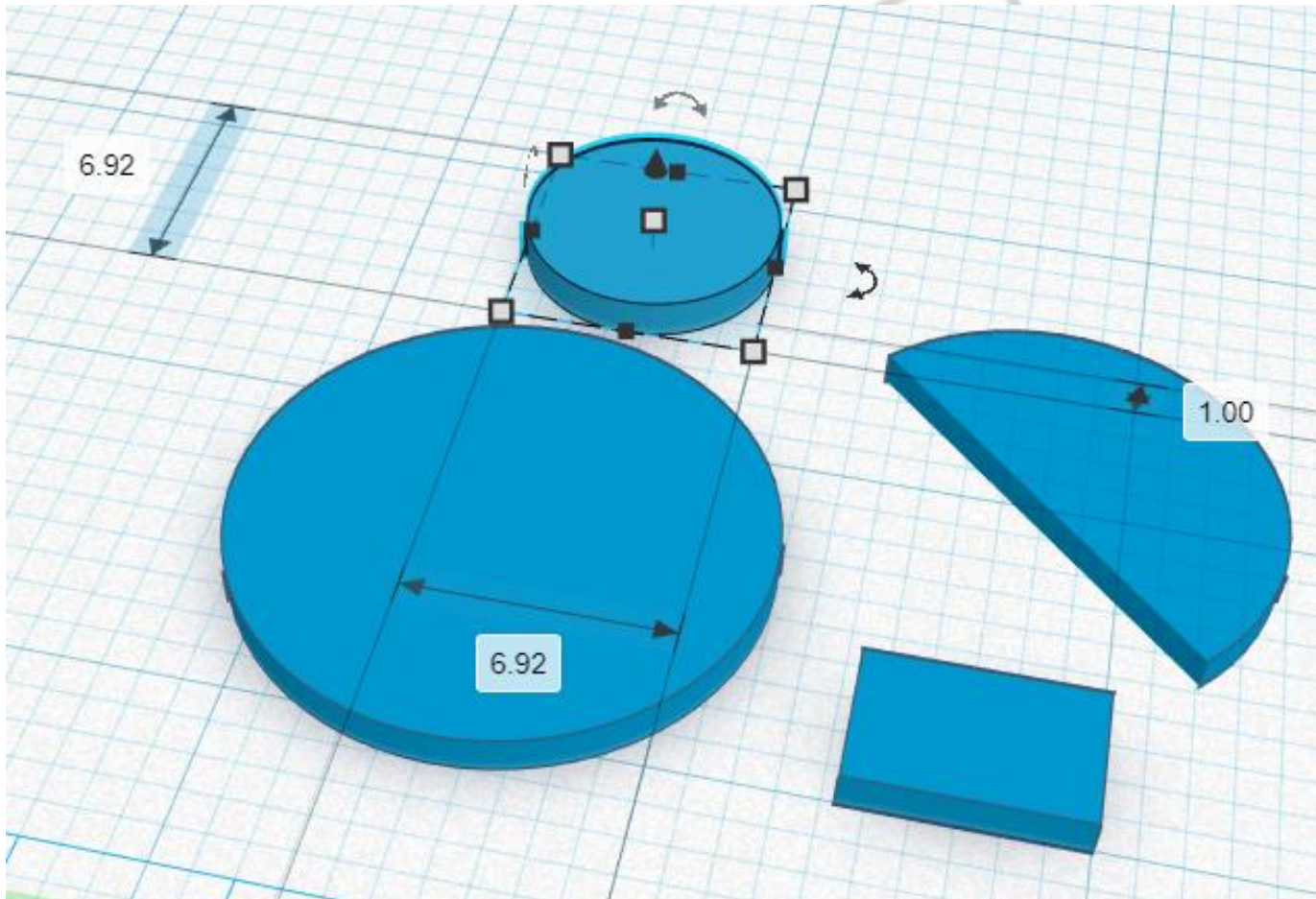
- 작업평면에 태극무늬B(청색) 만들기;
- 원통1 : 가로 13.5mm, 세로 13.5mm, 높이 1mm



태극기 디자인하기

❖ 태극기

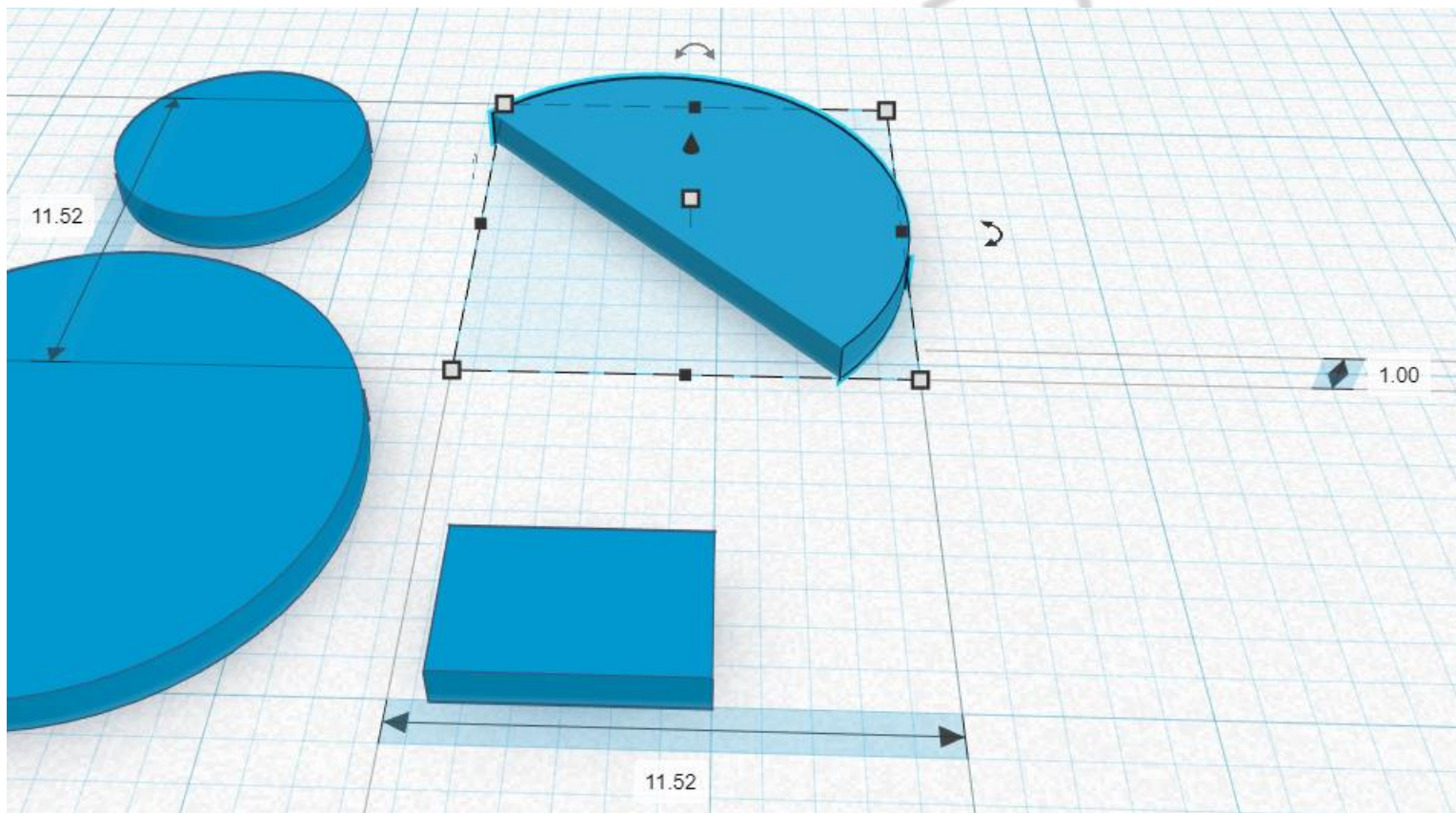
- 작업평면에 태극무늬B(청색) 만들기;
- 원통2 2개 만들기 : 가로 6.92mm, 세로 6.92mm, 높이 1mm



태극기 디자인하기

❖ 태극기

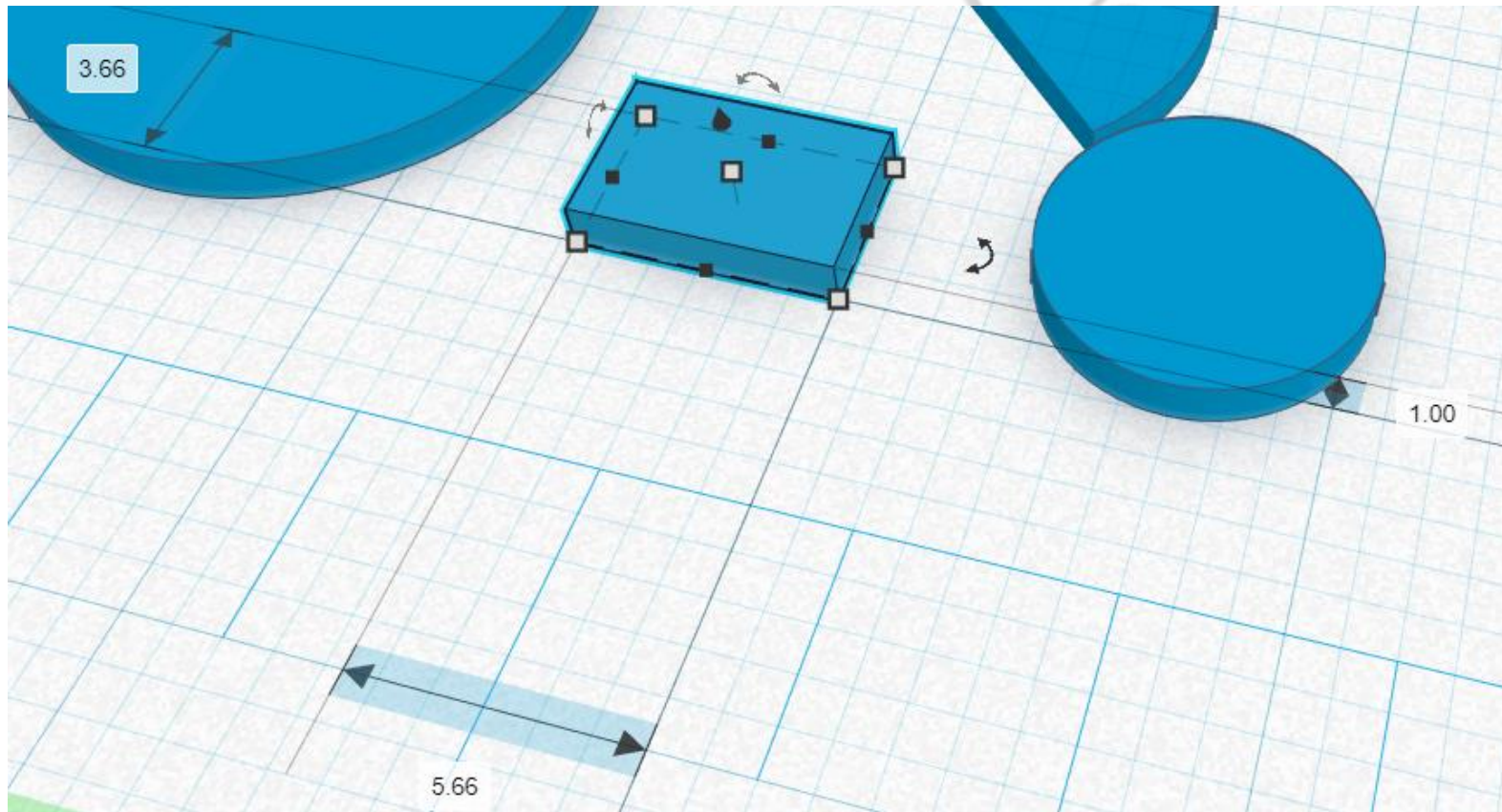
- 작업평면에 태극무늬B(청색) 만들기;
- 원형지붕 : 가로 11.52mm, 세로 11.52mm, 높이 1mm



태극기 디자인하기

❖ 태극기

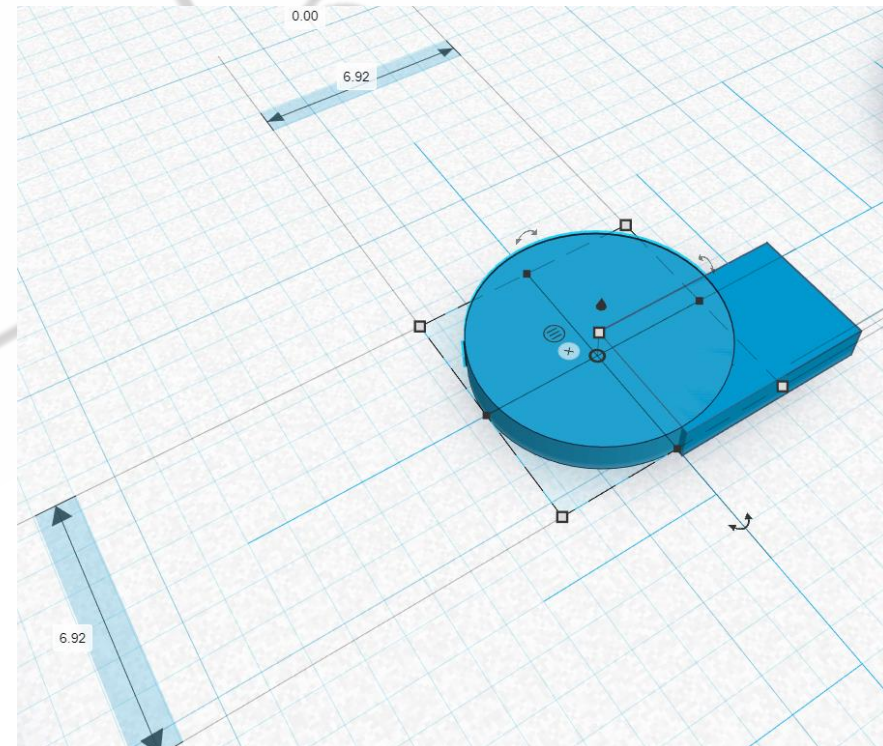
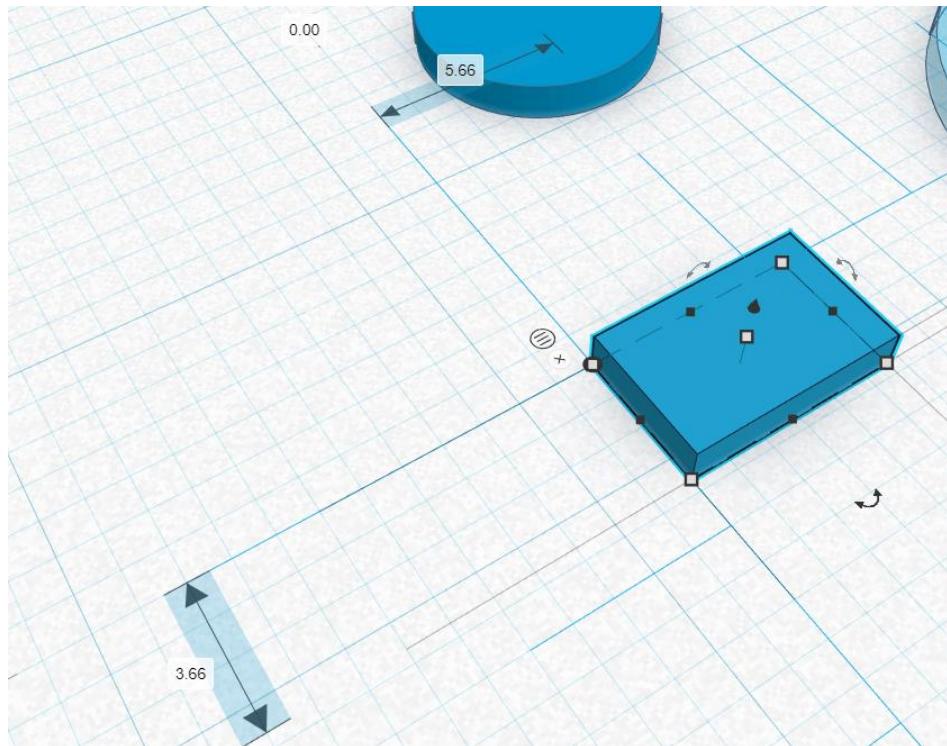
- 작업평면에 태극무늬B(청색) 만들기;
- 상자 : 가로 5.66mm, 세로 3.66mm, 높이 1mm



태극기 디자인하기

❖ 태극기

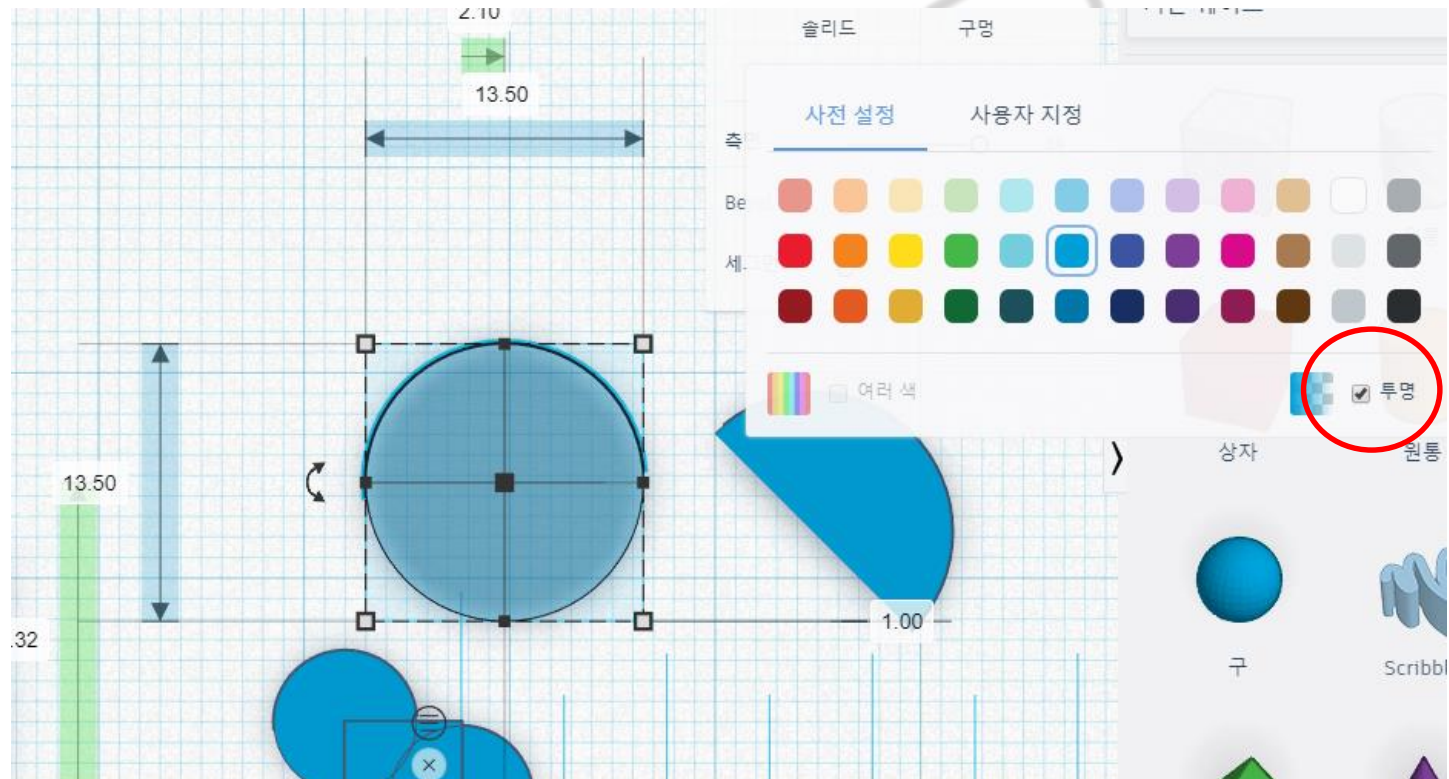
- 작업평면에 태극무늬B(청색) 만들기;
- 눈금자를 만들기 > 끝점설정 > 4사분면 설정
- 상자를 모서리의 왼쪽 아래 모서리에 위치, 원통2를 상자 모서리에 위치하기



태극기 디자인하기

❖ 태극기

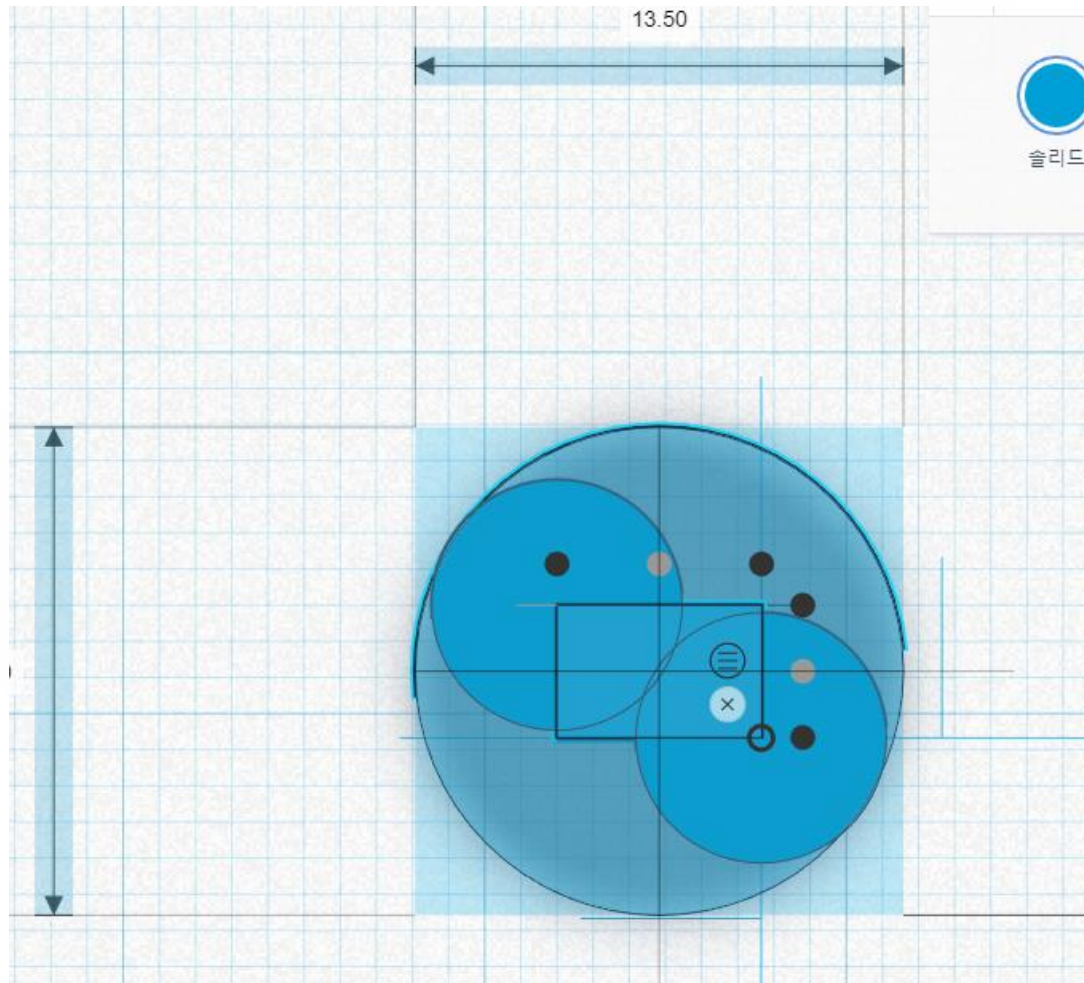
- 작업평면에 태극무늬B(청색) 만들기;
- 원통1을 투명화 시킴



태극기 디자인하기

❖ 태극기

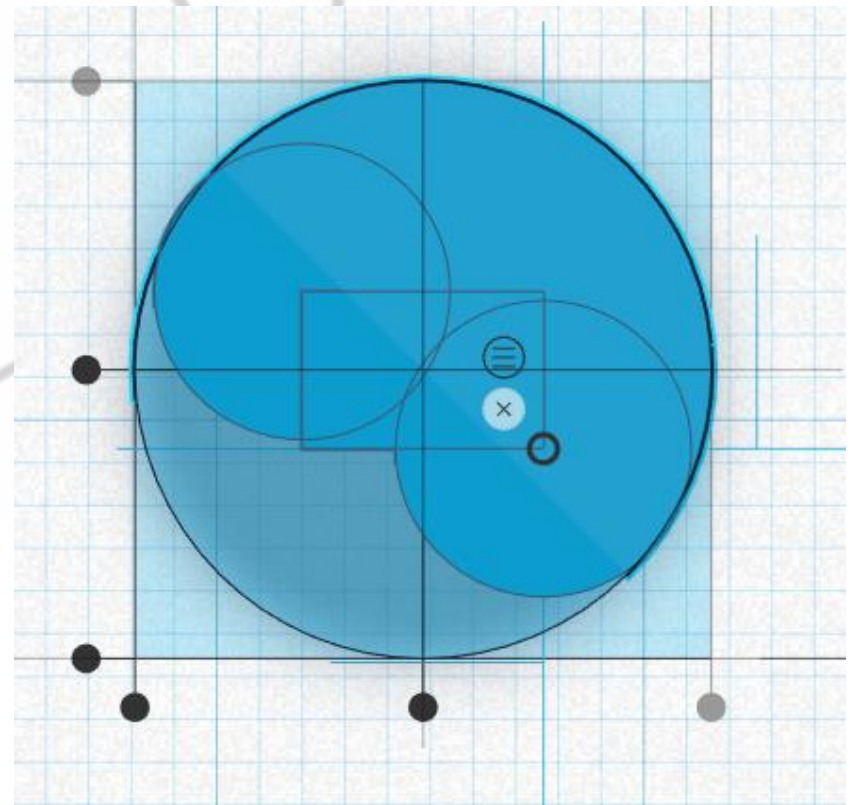
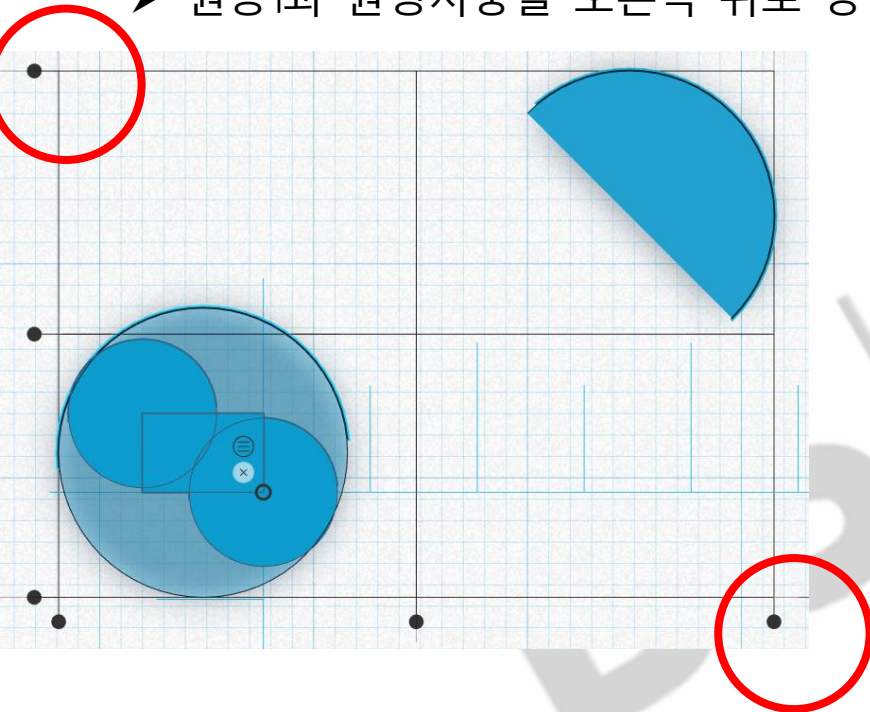
- 작업평면에 태극무늬B(청색) 만들기;
- 원통1과 상자 사이 중앙 정렬



태극기 디자인하기

❖ 태극기

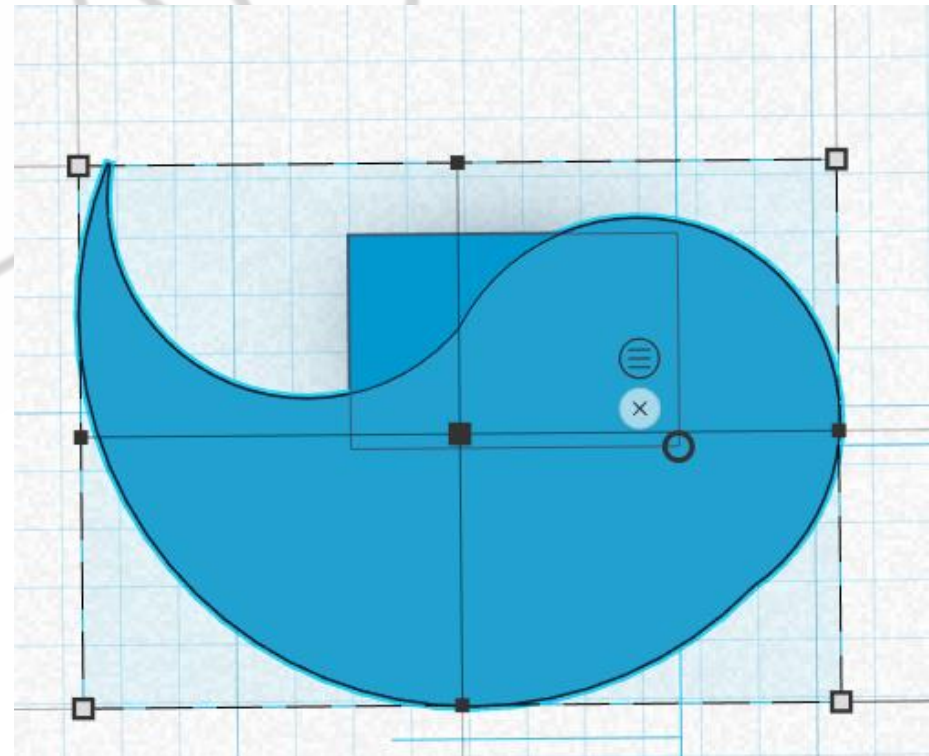
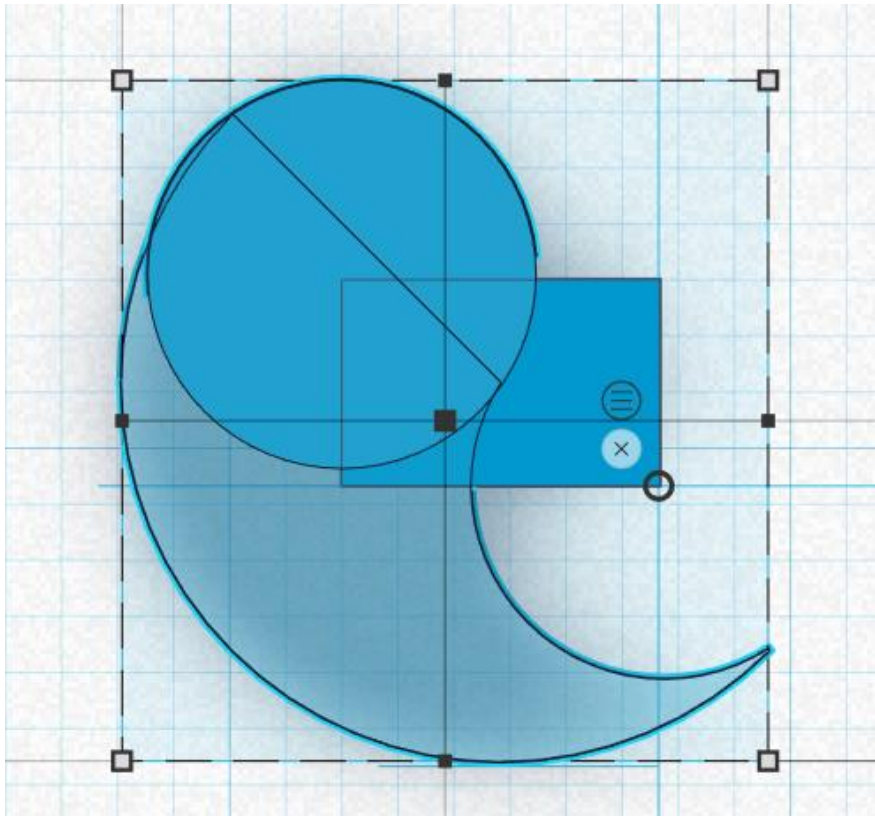
- 작업평면에 태극무늬B(청색) 만들기;
- 원통1과 원형지붕을 오른쪽 위로 정렬



태극기 디자인하기

❖ 태극기

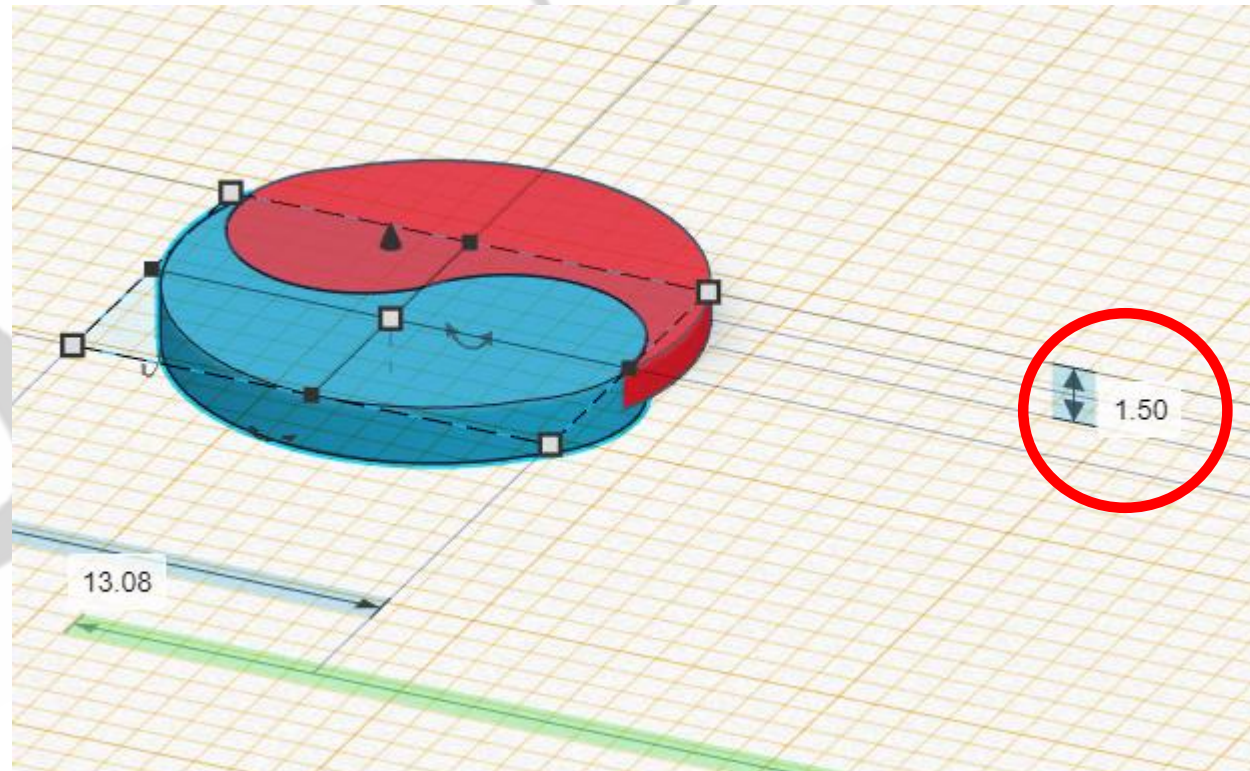
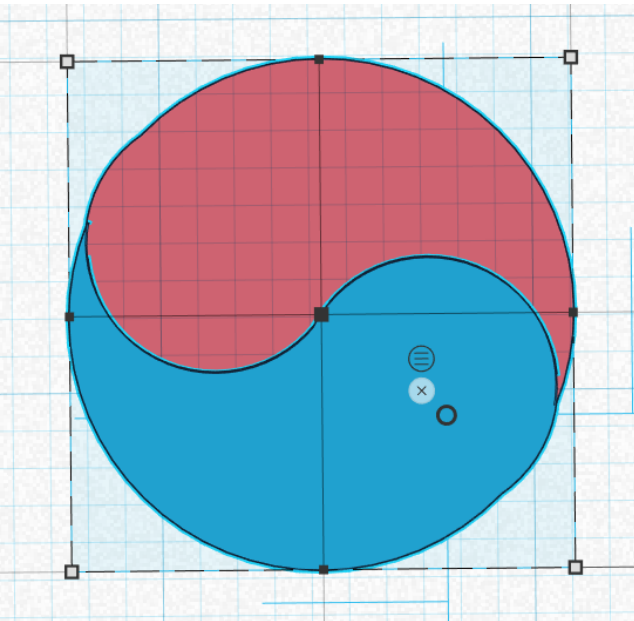
- 작업평면에 태극무늬B(청색) 만들기;
- 아래쪽 원통2와 원형지붕 구멍 설정 > 원통1, 아래쪽 원통2(구멍), 원형지붕(구멍) 그룹 설정 > 원통2, 남은 원통1을 그룹 설정 > 투명 취소 > 반전 좌우 > 시계방향으로 67.5도 회전



태극기 디자인하기

❖ 태극기

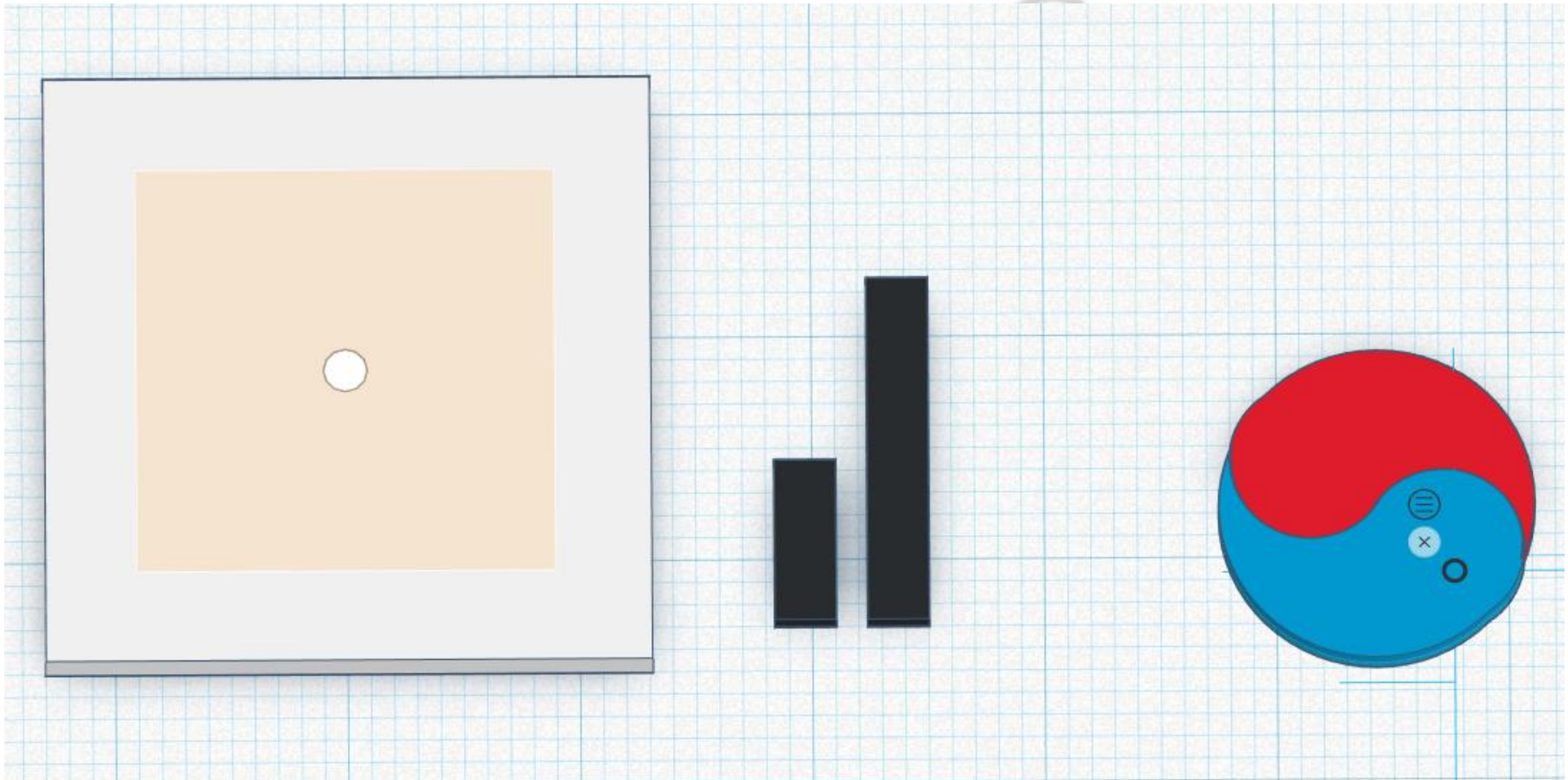
- 작업평면에 태극무늬B(청색)로 태극무늬R(적색) 만들기;
- 태극무늬B(청색) 복사 > 좌우 반전 > 상하 반전 > 색상 붉은색 설정 > 태극무늬B(청색) 높이 1.5로 변경 > 태극무늬R(적색) 상단에 작업평면(Shift) 누른 채 설정 > 태극무늬B(청색) 선택 후 기능키로 D로 바닥 맞추기



태극기 디자인하기

❖ 태극기

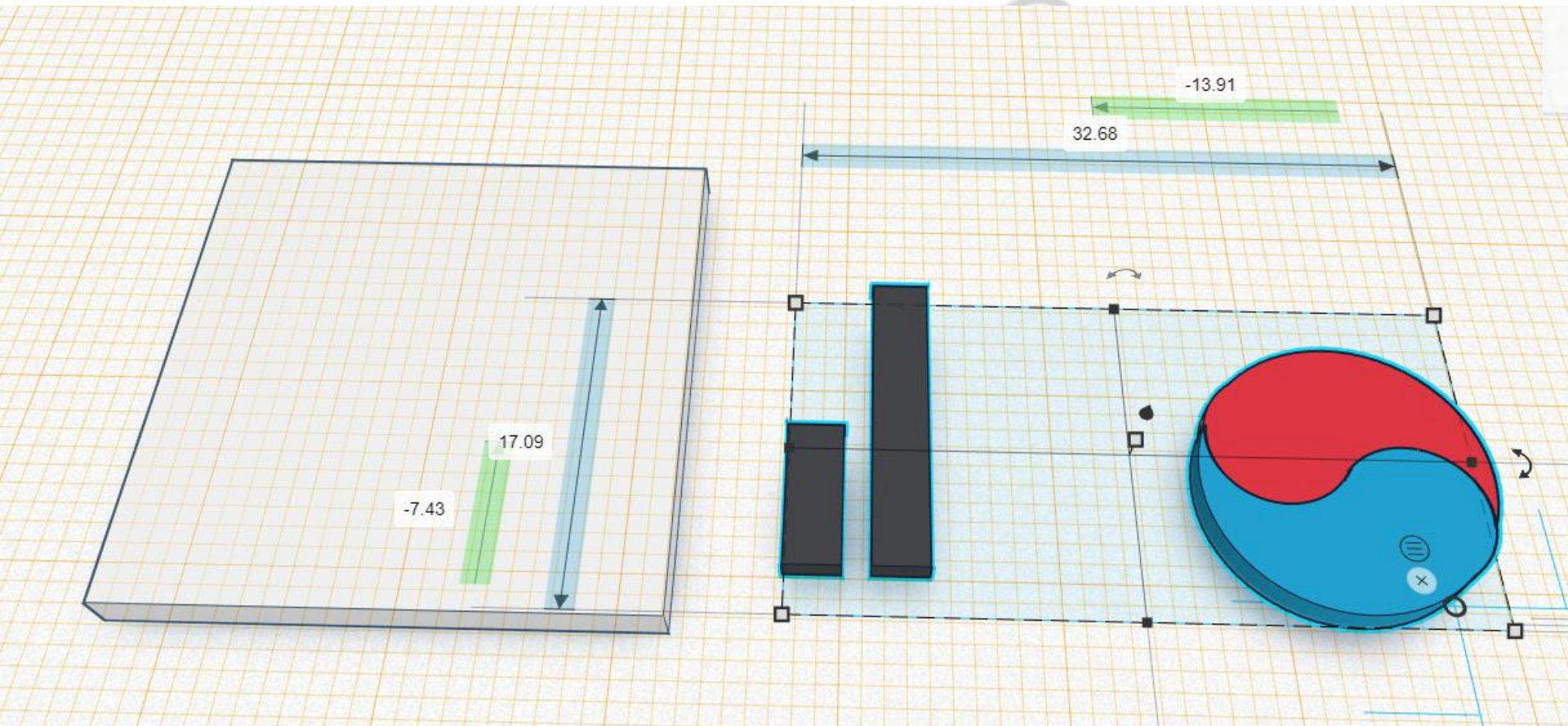
- 태극기 조립하기
- 작업 평면 바탕 모형 위에 설정 >



태극기 디자인하기

❖ 태극기

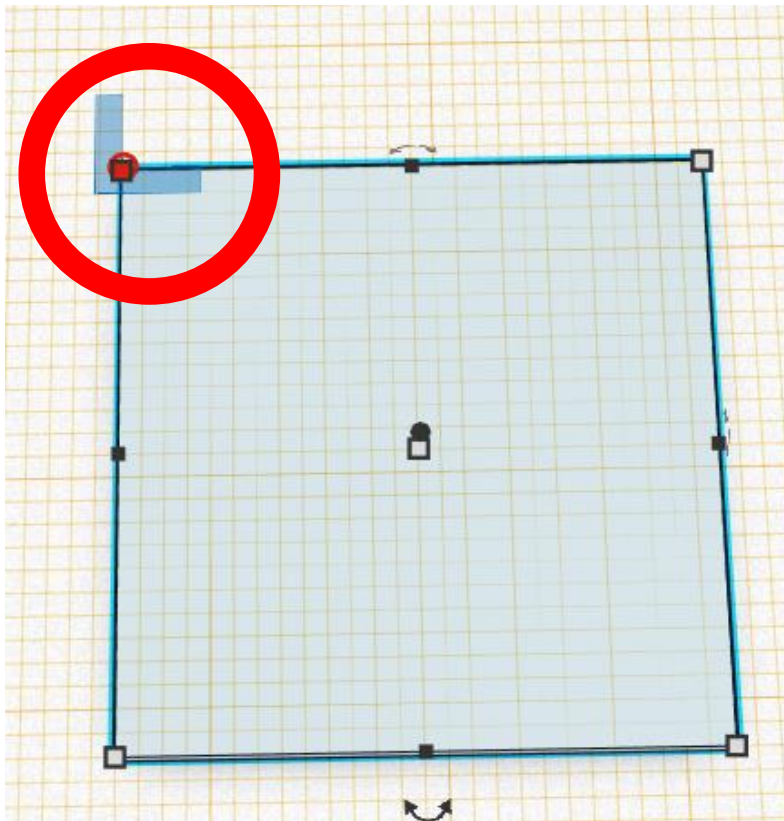
- 태극기 조립하기
- 작업 평면 바탕 모형 위에 설정 > 블록1, 블록2, 태극무늬(조립) 선택 > 기능키 D



태극기 디자인하기

❖ 태극기

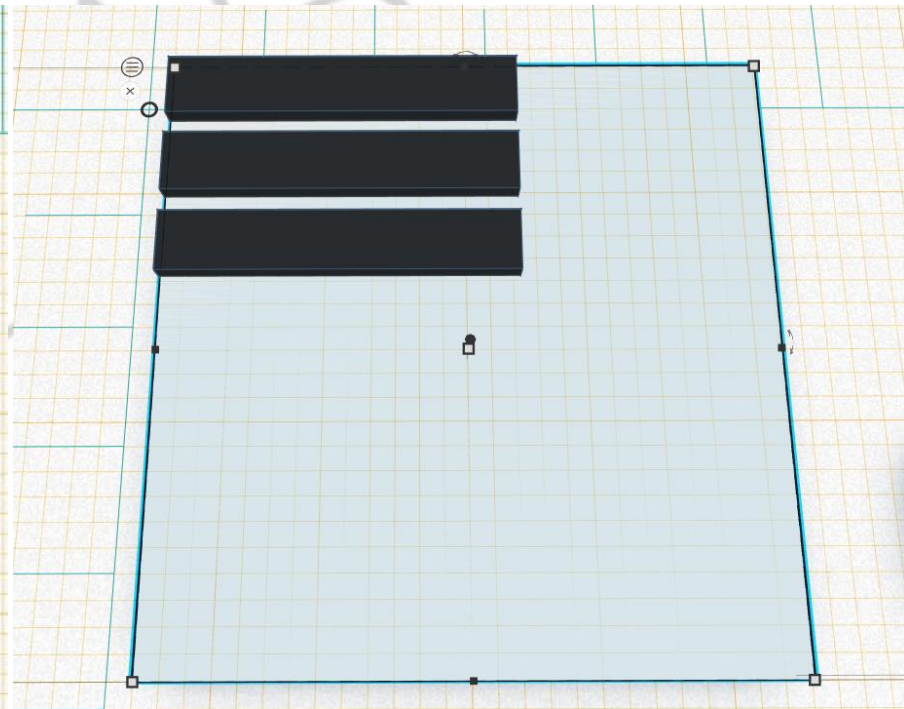
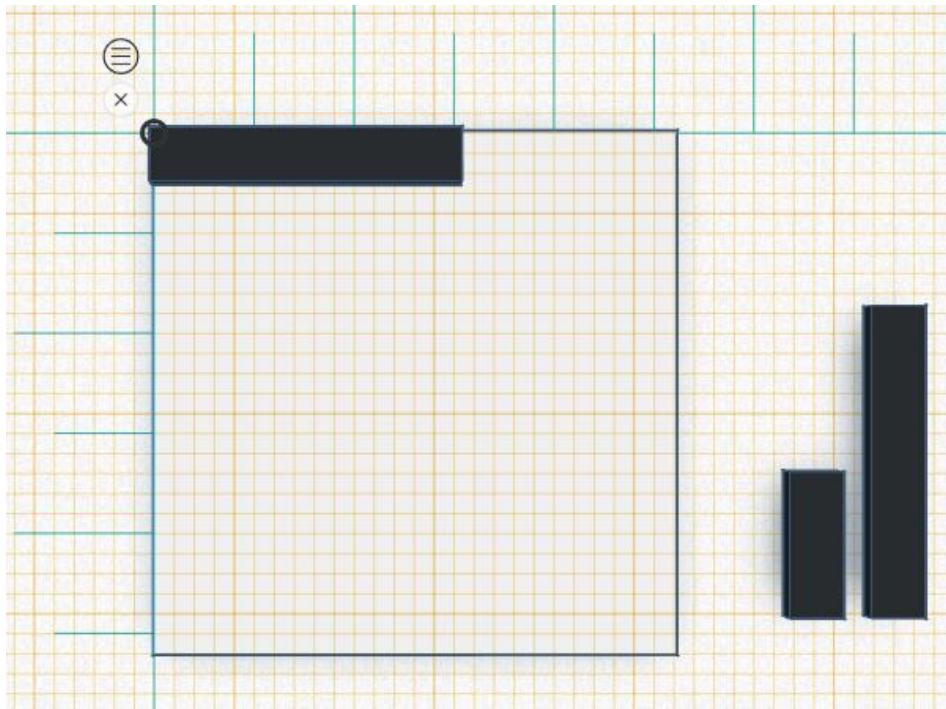
- 태극기 조립하기
- 태극기의 "건" 조립하기 > 그리드 스냅 끄기 > 바탕 선택 > 눈금자 > 바탕 개체 오른쪽 위로 눈금자 설정 > 눈금자 4사분면 > 블록2 복사 > "건"에 맞게 회전 > 눈금자 초록자 수치 "0"으로 설정 >



태극기 디자인하기

❖ 태극기

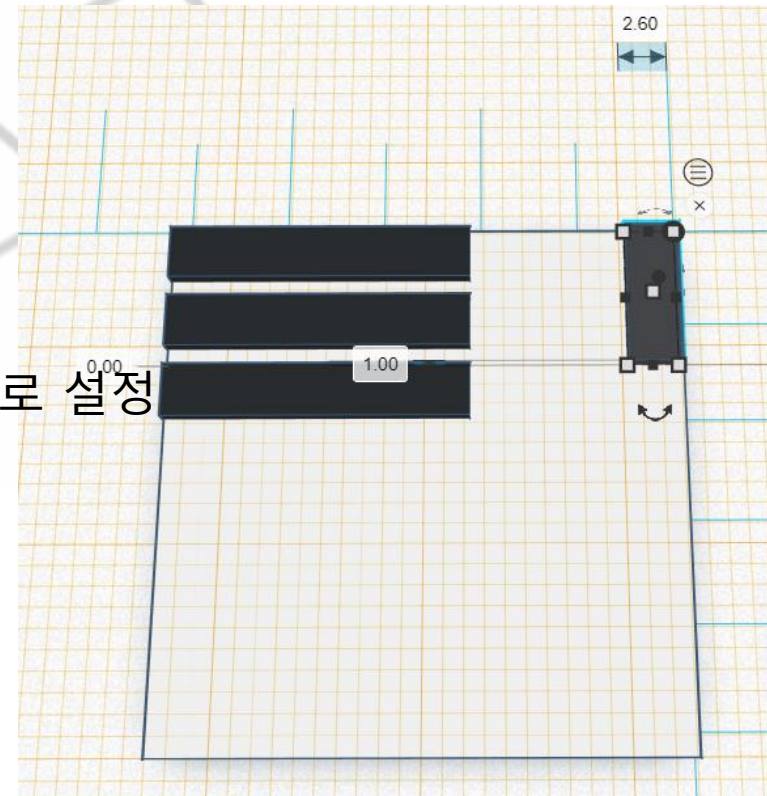
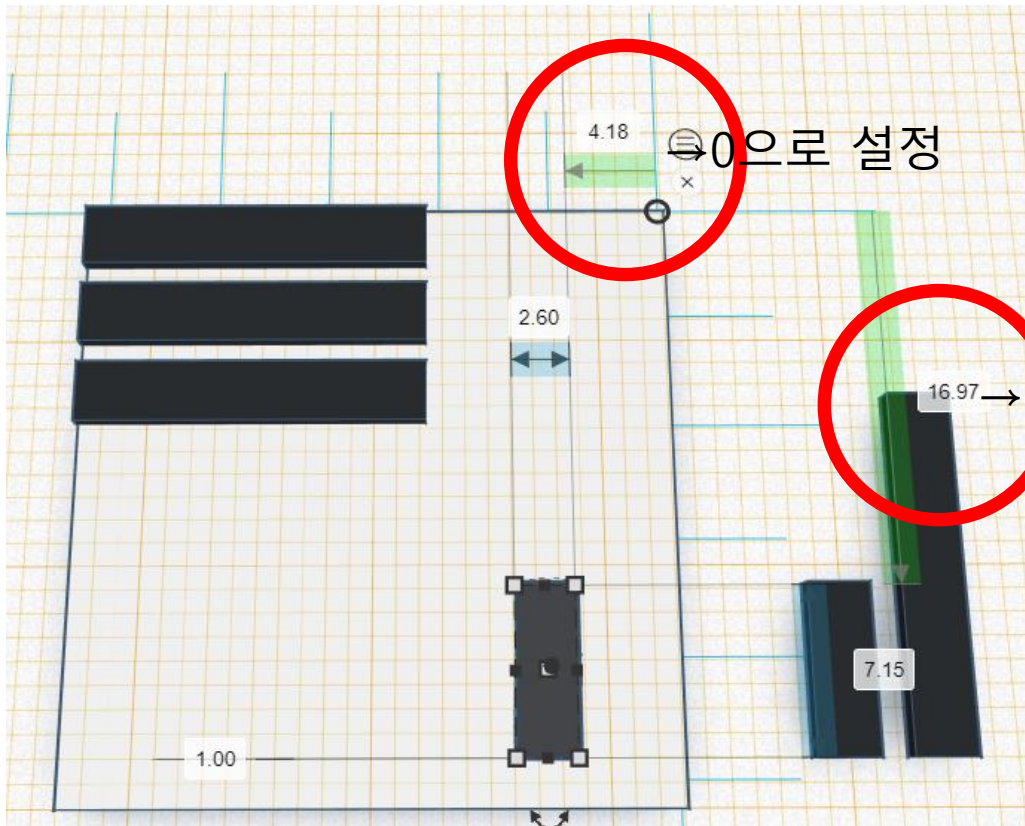
- 태극기 조립하기
- 그리드 스텝 크기 0.1mm > 바탕 위에 자리 잡은 블록2 선택 > C+기 + D 기능키 입력 > 선택된 블록2 이동을 통해 처음 블록2와 1mm 떨어진 곳에 위치 > 반복하여 "건" 완성



태극기 디자인하기

❖ 태극기

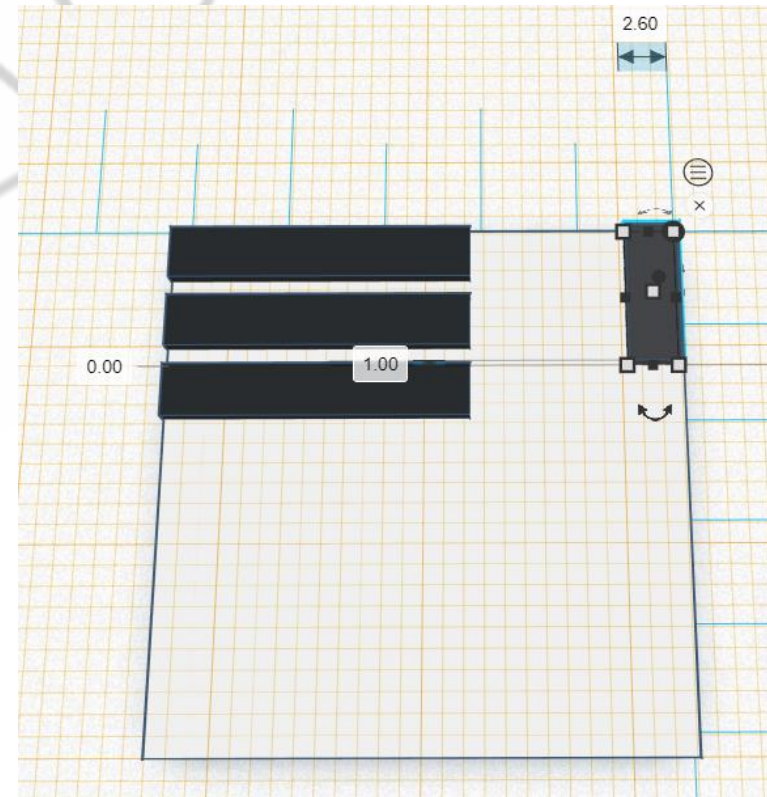
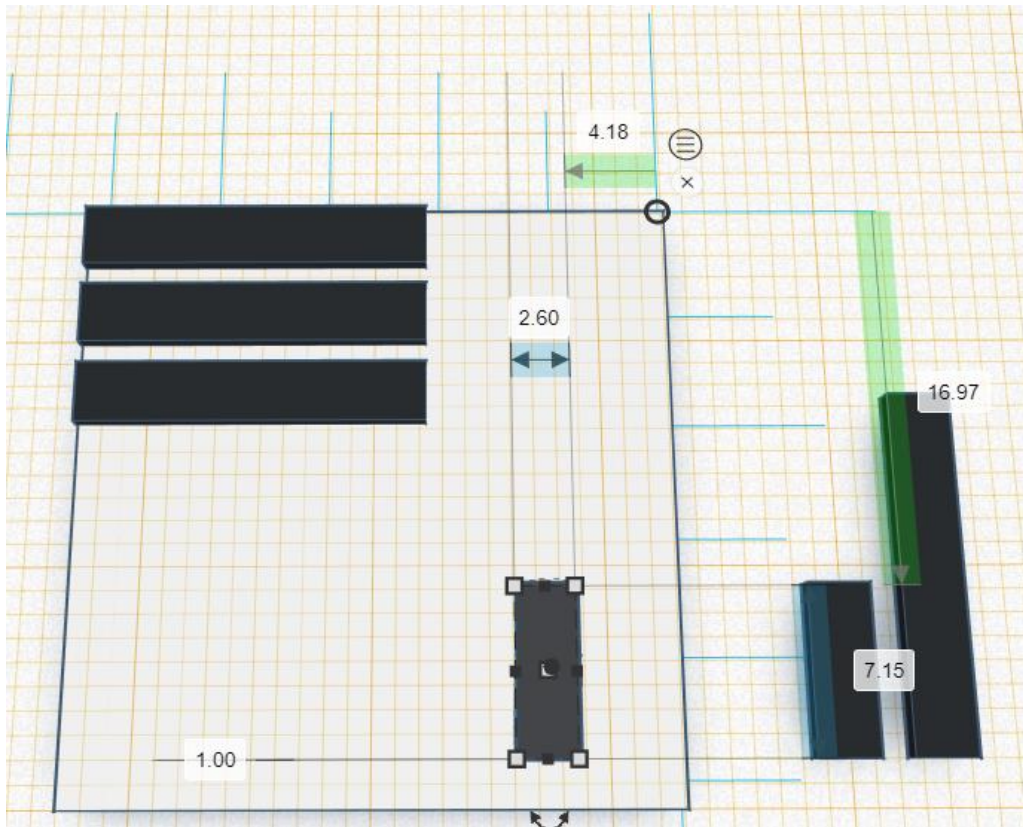
- 태극기 조립하기
- "감" 조립하기 > 그리드스텝 끄지 > 바탕 선택 > 눈금자 오른쪽 상단 모서리로 설정 > 눈금자 끝점 설정 > 눈금자 3사분면 설정 > 블록1 선택 > 눈금자 녹색 수치 0으로 설정



태극기 디자인하기

❖ 태극기

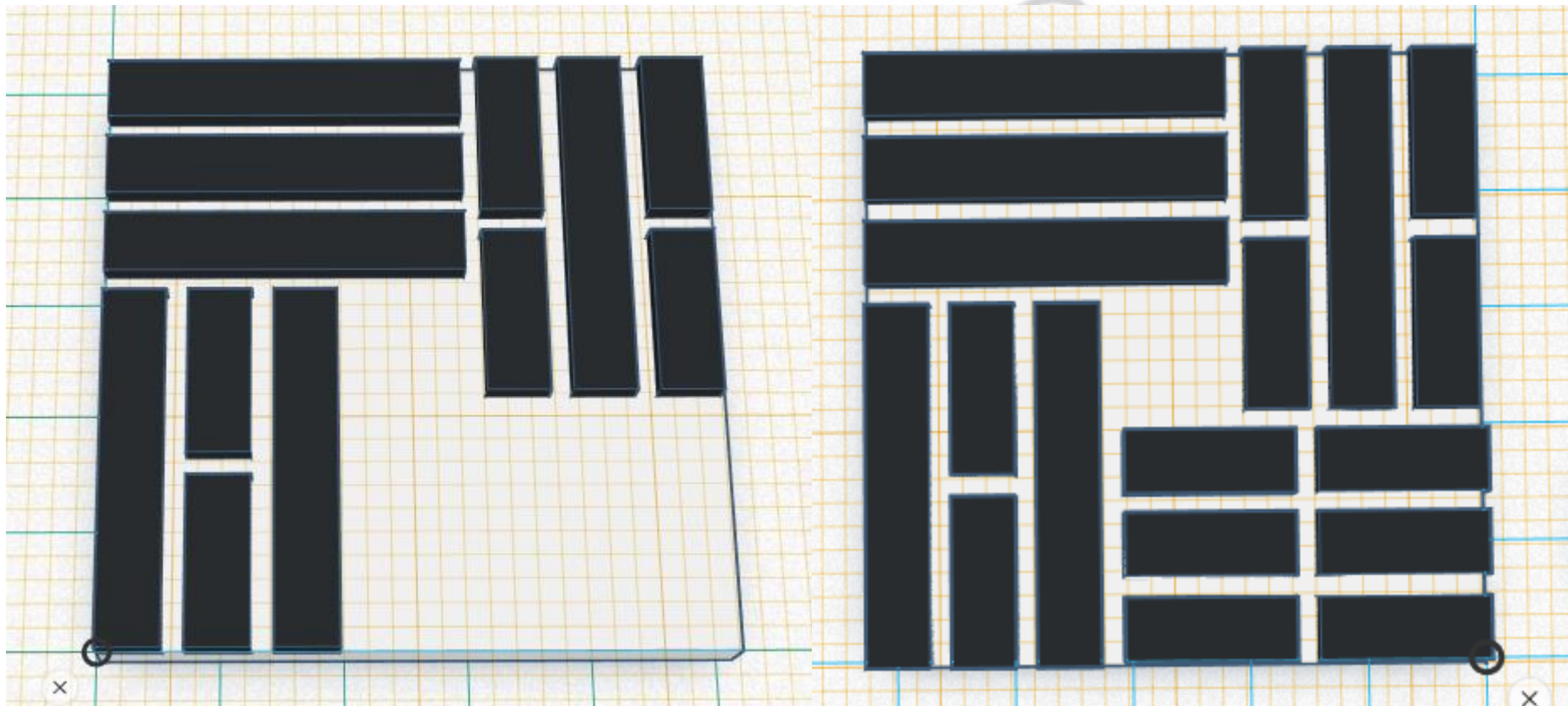
- 태극기 조립하기
- 그리드스텝 0.1mm로 변경 > "감"의 블록1 선택 > Ctrl + D 기능키 > 복사된 블록1을 아래로 이동하여 최초 블록1보다 1mm 아래에 위치 > 블록2 복사 후 및 반복을 통해 "감"을 완성 시킴



태극기 디자인하기

❖ 태극기

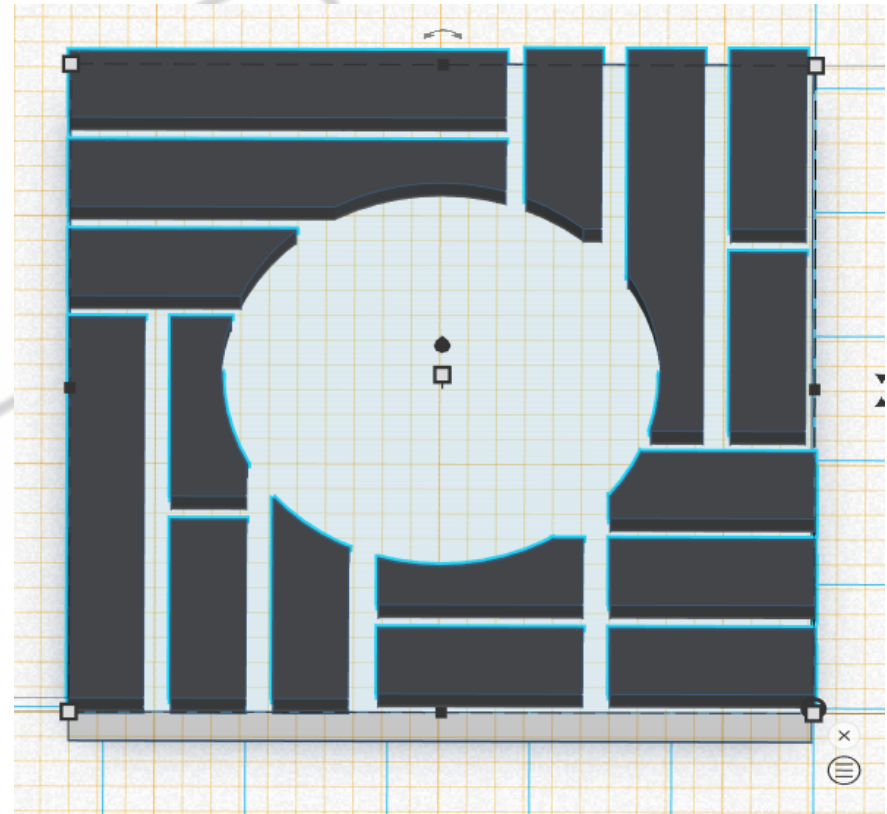
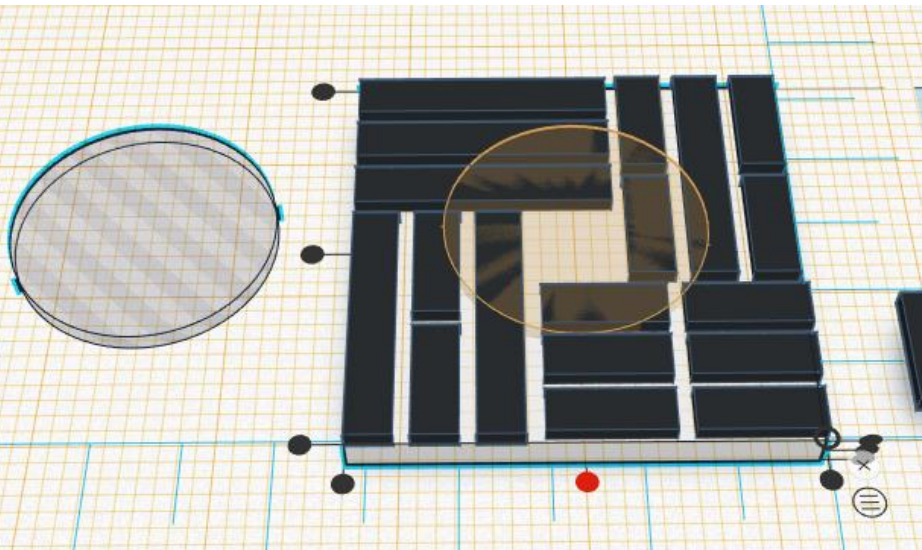
- 태극기 조립하기
- " 감" 조립하기 > "리" 조립하기



태극기 디자인하기

❖ 태극기

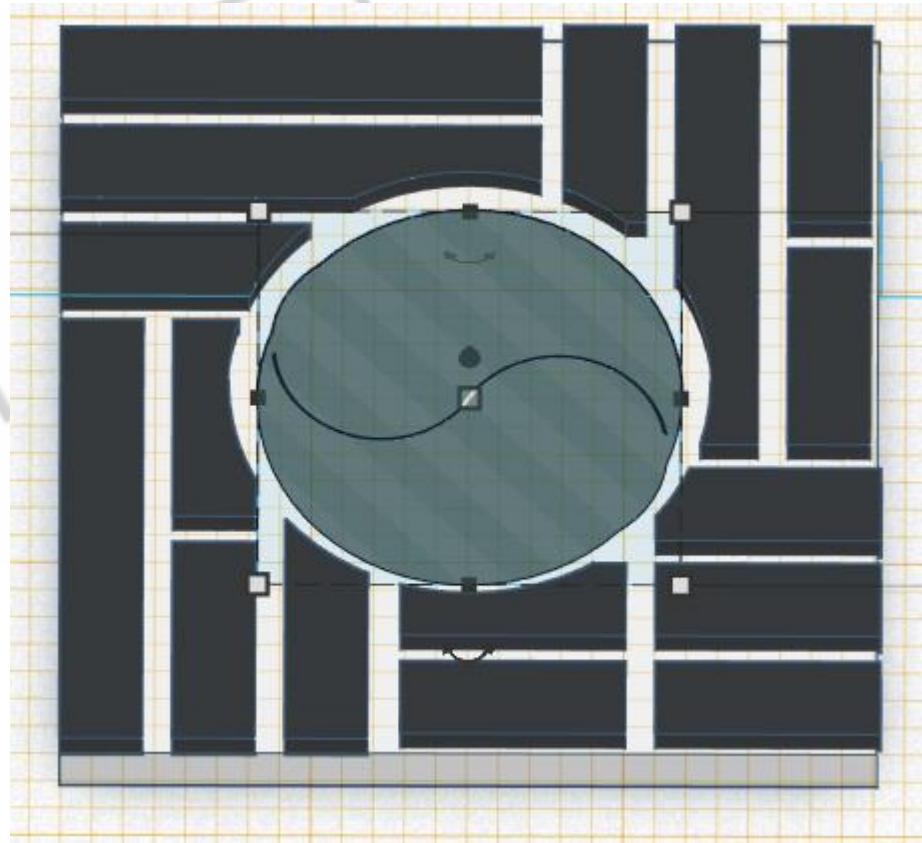
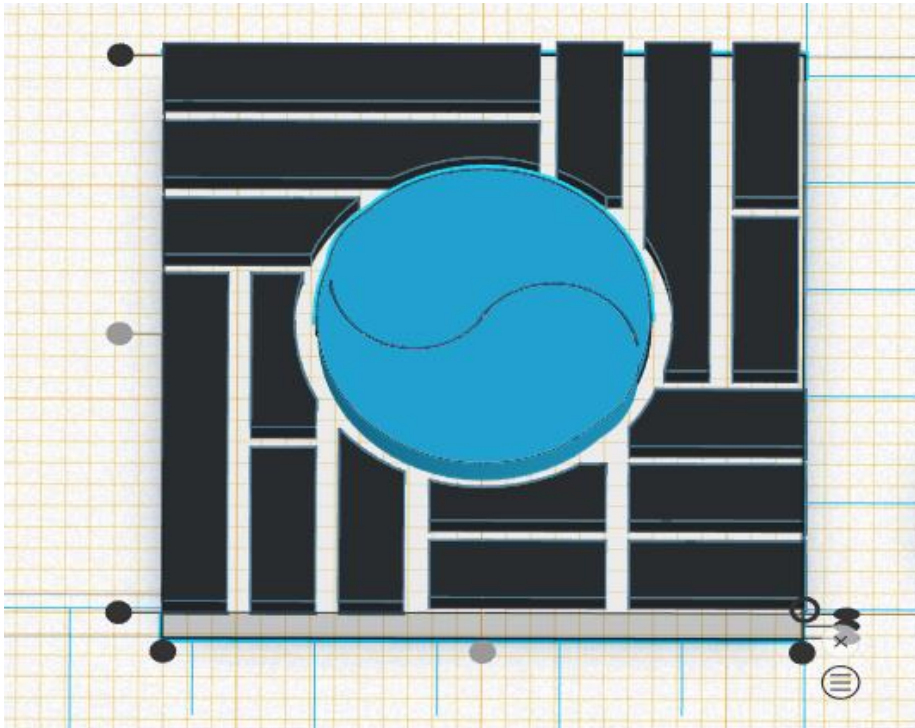
- 태극기 조립하기
- "건곤감리" 중앙 비우기 > 원통 만들기: 가로 11.52mm, 세로 11.52mm, 높이 1mm > 원통 구멍 설정 > 원통을 바탕의 중앙에 정렬 > "건곤감리"와 원통(구멍) 그룹 설정



태극기 디자인하기

❖ 태극기

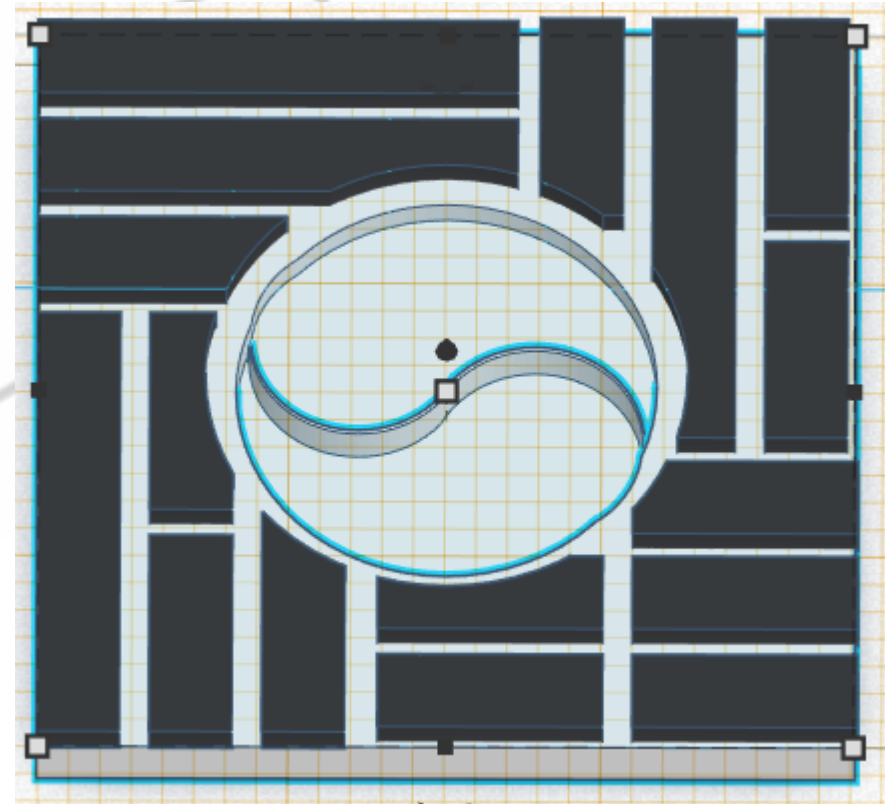
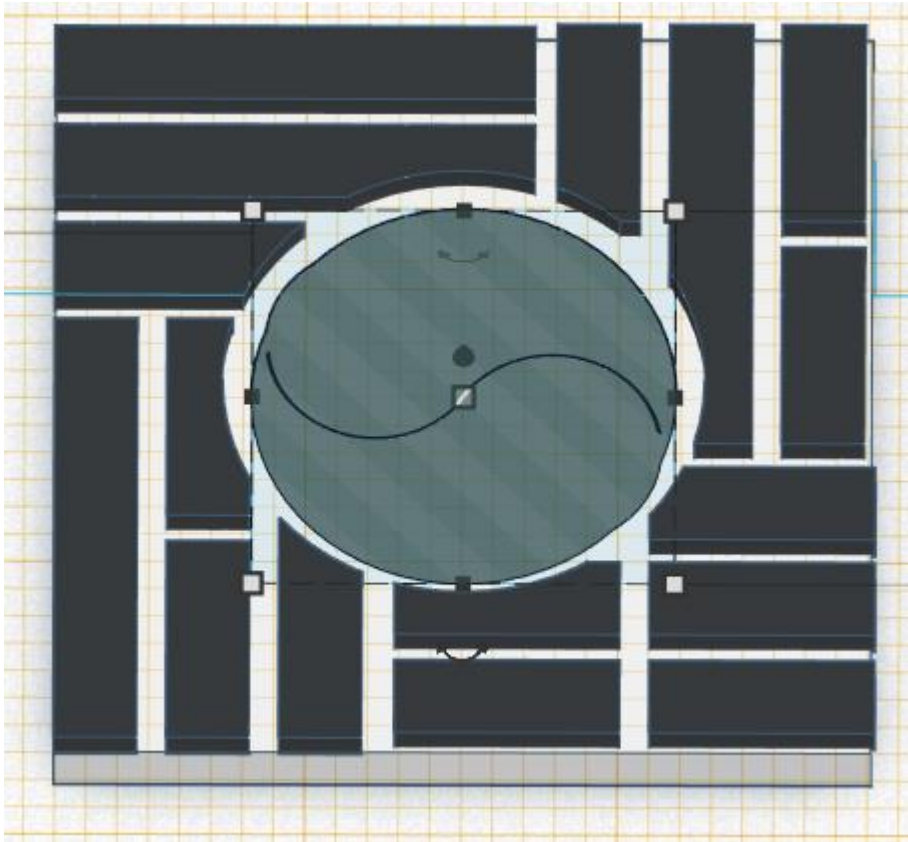
- 태극기 조립하기
- 태극무늬(조립) 그룹 > 태극무늬(그룹)을 바탕의 중앙에 정렬 > 바탕의 아래면으로 작업평면 설정 > 태극무늬(그룹) 구멍 설정 > 태극무늬(그룹) 구멍 선택 + D 기능키로 바닥으로 내림



태극기 디자인하기

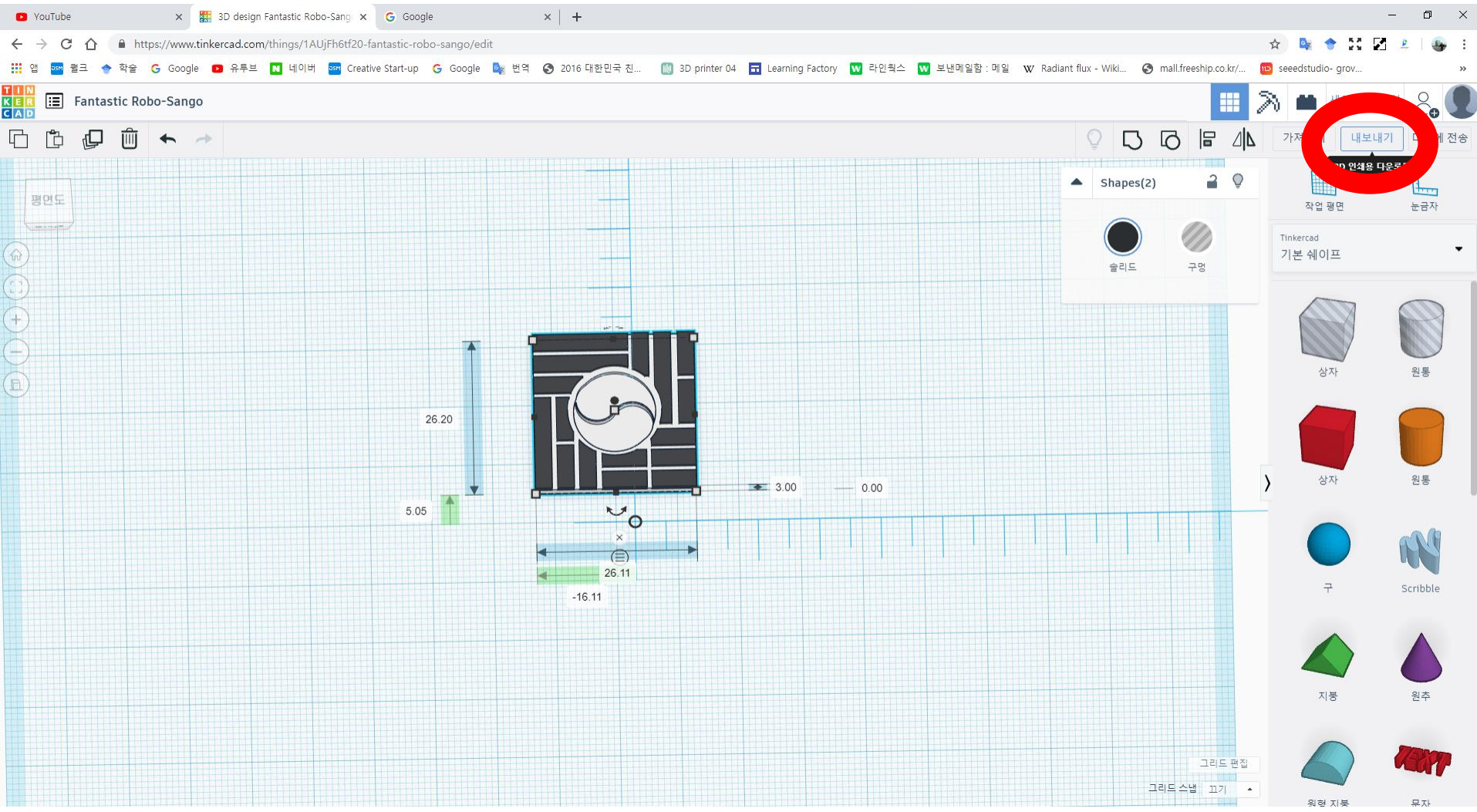
❖ 태극기

- 태극기 조립하기
- 태극무늬(그룹) 구멍과 바탕 그룹



태극기 디자인하기

- ❖ 태극기 STL 만들기
- ❖ 모델링 한 모형을 선택한 상태에서 "내보내기" 로 STL 만들기



Export for 3D Printing

❖ 파일 명 변경

- 다운로드 폴더 내의 STL파일의 이름 변경 후 저장
- 숙제
- 각자의 태극기 만들어보기
- 2019대한민국 청소년 박람회에 사용
- 출력 dslab.tv@gmail.com

Solidwork xDesign 준비하기: 가입하기

DSL^{LAB}

<https://my.solidworks.com/>

MySolidWorks

Home Buzz CAD Models Training Forums Drive Support Manufacturers My Reseller Try SOLIDWORKS **Try xDesign** Log In | Join English 3DEXPERIENCE

Your place for all things SOLIDWORKS

Get answers • Learn more • Connect

Search Everything **Search**

Share and Showcase your Skills and Talents!

MySolidWorks CAD Models is now in public beta. Create your public profile, find, download and upload SOLIDWORKS designs today!

See My Profile

Buzz
View recent content from the community.

CAD Models
Explore models from SOLIDWORKS users and suppliers.

Training
Classroom, online training, and

Forums
Connect with the SOLIDWORKS

Feedback

The screenshot shows the MySolidWorks website. At the top, there is a navigation bar with links: Home, Buzz, CAD Models, Training, Forums, Drive, Support, Manufacturers, My Reseller, Try SOLIDWORKS, and Try xDesign. A search bar and language options (Log In, Join, English) are also present. A modal window is open in the center, titled 'Log in to continue'. It contains the text 'Need a SOLIDWORKS ID? Create one now' and two buttons: 'Log In' and 'Sign Up'. The 'Sign Up' button is highlighted with a red box. In the background, there is a 'Get Started' button, also highlighted with a red box. Below the modal, there is a section for 'SOLIDWORKS xDesign - Design Freedom' with a 3D model of a mechanical assembly and a description of the software's capabilities. A 'Feedback' button is visible on the right side of the page.

MySolidWorks

Search Everything

Log In | Join | English

Home Buzz CAD Models Training Forums Drive Support Manufacturers My Reseller Try SOLIDWORKS Try xDesign

Try SOLIDWORKS

Get early access and join others who...
Experience the latest technology and...

Get Started

Log in to continue

Need a SOLIDWORKS ID? Create one now

Log In Sign Up

SOLIDWORKS xDesign - Design Freedom

SOLIDWORKS xDesign allows users to create 3D mechanical designs without the restriction of needing a CAD workstation. Built-in collaboration capabilities allow multiple stakeholders to be actively engaged in the product design and development process.

Feedback

px.ads.linkedin.com의 응답을 기다리는 중...

Search Everything

Log In

Join

English

[Home](#)
[Buzz](#)
[CAD Models](#)
[Training](#)
[Forums](#)
[Drive](#)
[Support](#)
[Manufacturers](#)
[My Reseller](#)
[Try SOLIDWORKS](#)
[Try xDesign](#)

Try SOLIDWORKS xDesign

Get early access and join others who are already

Experience the latest technology and innovation

Get Started

Signing up for a SOLIDWORKS ID

Three steps to create your account

1. Create your SOLIDWORKS ID.
2. Activate your account by clicking a validation link sent to your email.
3. Return here to log in.

Continue to create your ID

SOLIDWORKS xDesign - Design Freedom

SOLIDWORKS xDesign allows users to create 3D mechanical designs without the restriction of needing a CAD workstation. Built-in collaboration capabilities allow multiple stakeholders to be actively engaged in the product design and development process.

Feedback

Create a SolidWorks Online Account

Email and Account Type > Company > Profile > Done

★ Your email address jodeoksu@gmail.com



I am not a SolidWorks customer or I do not have a SolidWorks Serial #



I am a SolidWorks customer with a SolidWorks Serial #

Serial #

Next >

Cancel

Note: Use the navigation buttons on these pages. **Do not use** your standard browser navigation buttons.To register or add additional products to your account, see **Register My Products** in the **Solidworks Customer Portal**.

Create a SolidWorks Online Account

Email and Account Type > **Company** > Profile > Done

★Required

★Company or Institution

DSLALB

★Address1

NATURAL SCIENCES CAMPUS: (16419) 85207, 2066, SEOBU-RO, JANGAN-GU,

Address2

★City

SUWON

★Country

South Korea ▼

State

Gyeonggi ▼

Postal Code

16419

< Back

Next >

Cancel

Note: Use the navigation buttons on these pages. **Do not use** your standard browser navigation buttons.

Create a SolidWorks Online Account

Email and Account Type > Company > **Profile** > Done

★Required

★First Name

Deok Su

★Last Name

Jo

★Phone Number

010-2975-8590

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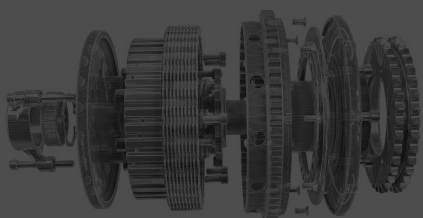
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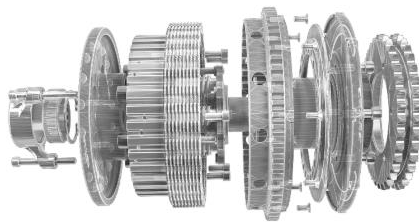
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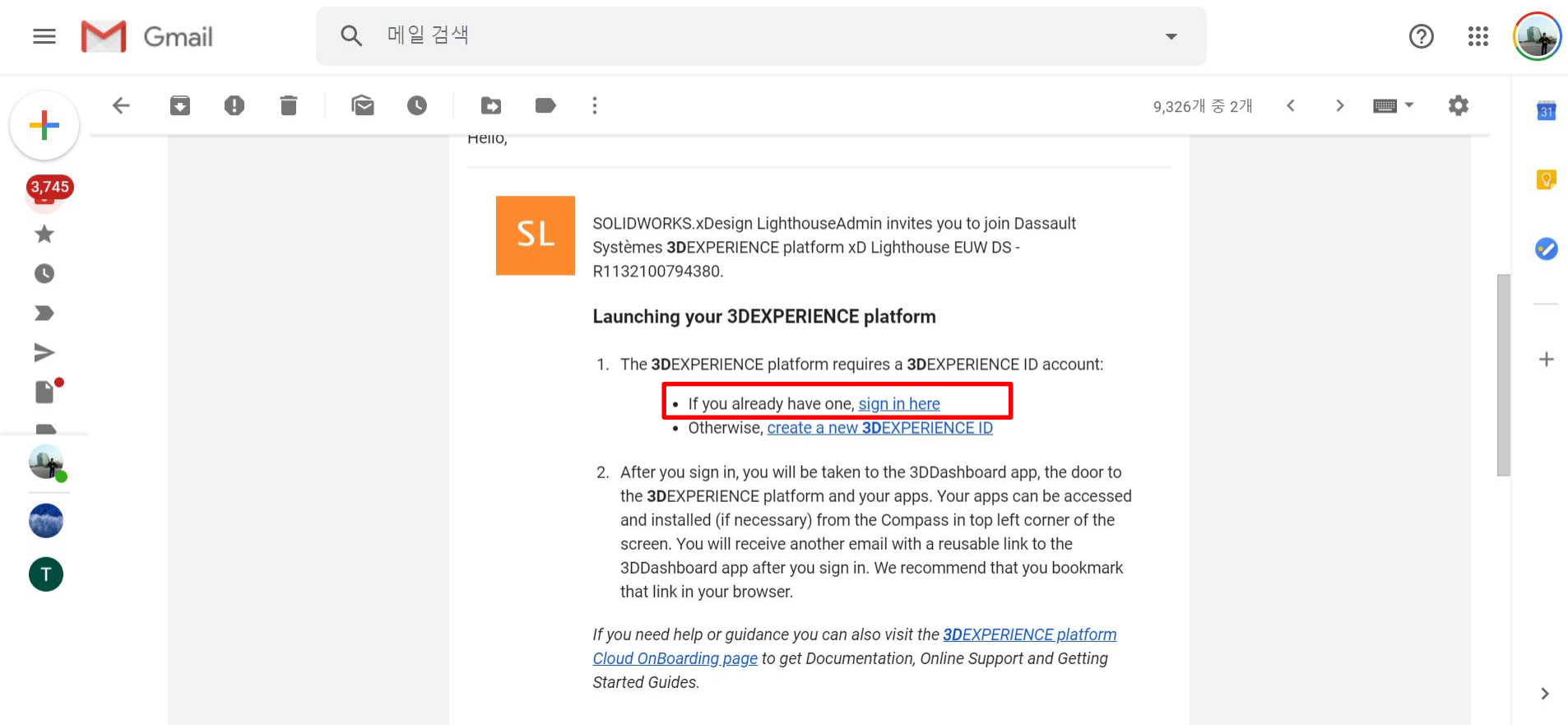
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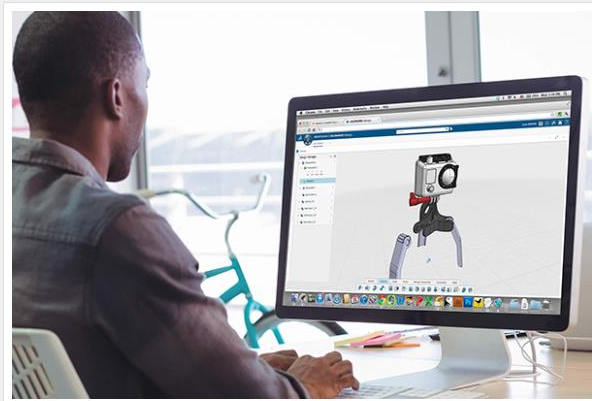
SL SOLIDWORKS.xDesign LighthouseAdmin invites you to join Dassault Systèmes **3DEXPERIENCE** platform xD Lighthouse EUW DS - R1132100794380.

Launching your 3DEXPERIENCE platform

- The **3DEXPERIENCE** platform requires a **3DEXPERIENCE** ID account:
 - If you already have one, [sign in here](#)
 - Otherwise, [create a new 3DEXPERIENCE ID](#)
- After you sign in, you will be taken to the 3DDashboard app, the door to the **3DEXPERIENCE** platform and your apps. Your apps can be accessed and installed (if necessary) from the Compass in top left corner of the screen. You will receive another email with a reusable link to the 3DDashboard app after you sign in. We recommend that you bookmark that link in your browser.

If you need help or guidance you can also visit the [3DEXPERIENCE platform Cloud OnBoarding page](#) to get Documentation, Online Support and Getting Started Guides.

We've put together this video so that you know what to expect. Watch the video to see how you access and log in to the 3DEXPERIENCE platform to access xDesign.

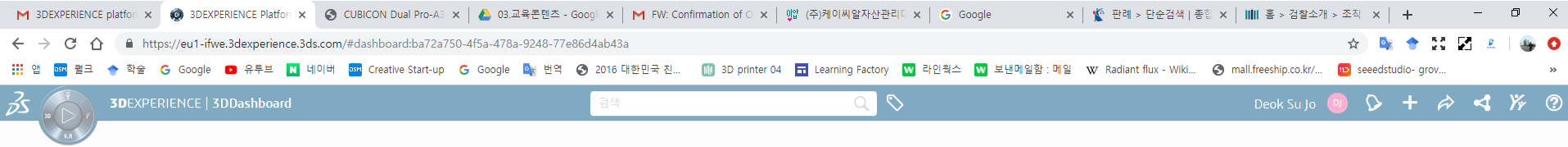


Access xDesign

Access xDesign by clicking the link below to go to the 3DEXPERIENCE Platform. Just use your SOLIDWORKS ID to log in. Once you log in you will get access to the default xDesign Dashboard. Bookmark www.solidworks.com/xdesign for future access or come back to this page

Access xDesign

Feedback



이용 약관 동의

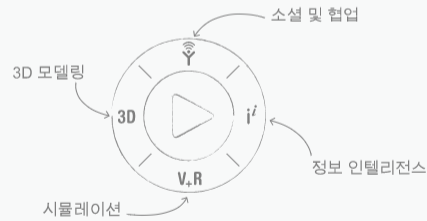
xD Lighthouse EUW DS - R1132100794380

☒ Welcome to the SOLIDWORKS xDesign Lighthouse Program! Before getting access to xDesign, you need to accept the xDesign Lighthouse Program Terms of Use. We would be sad to see you go, so please check the box and click the OK button. Thank you from the SOLIDWORKS xDesign Lighthouse Team!

[이용 약관](#)

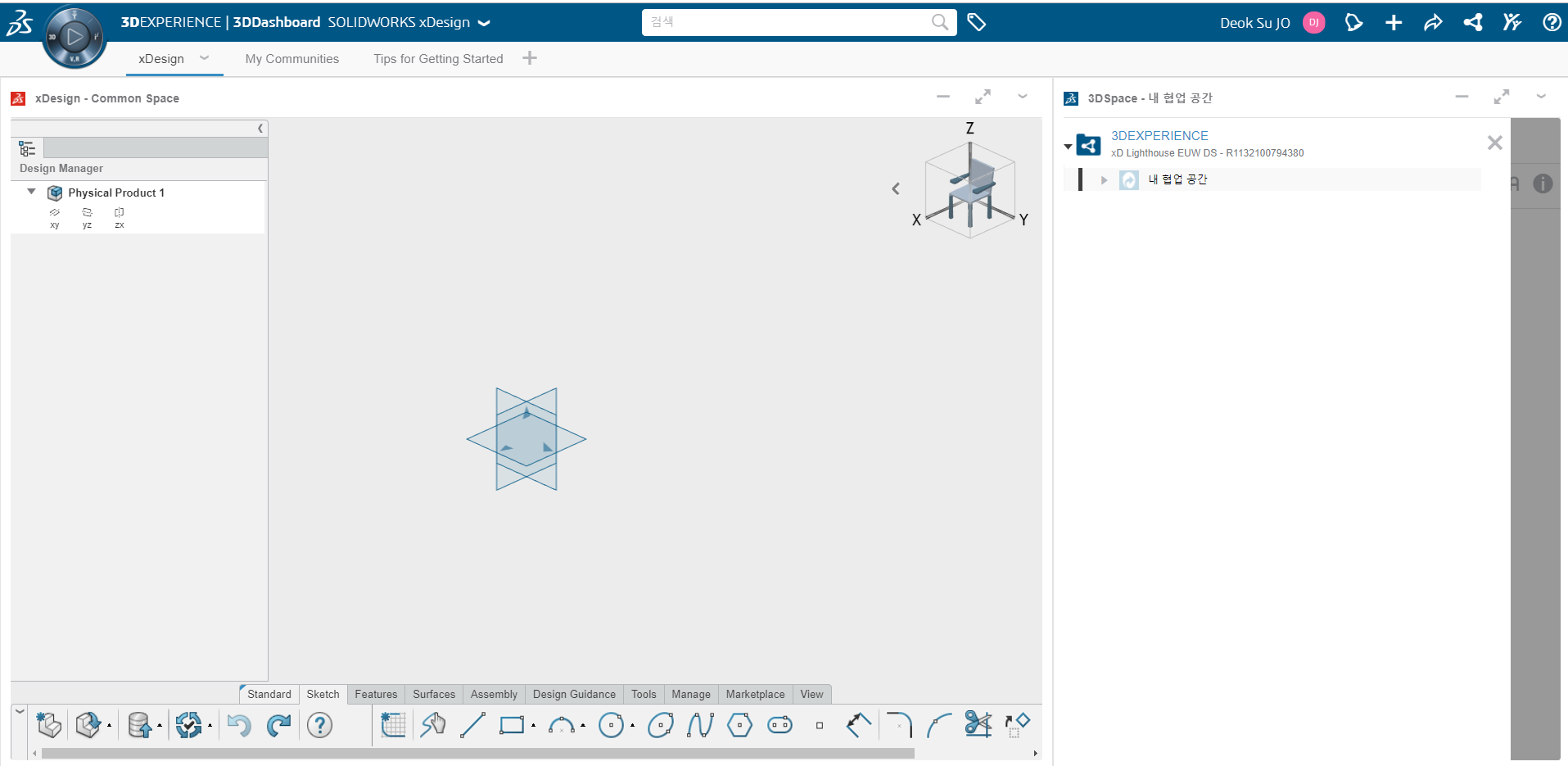
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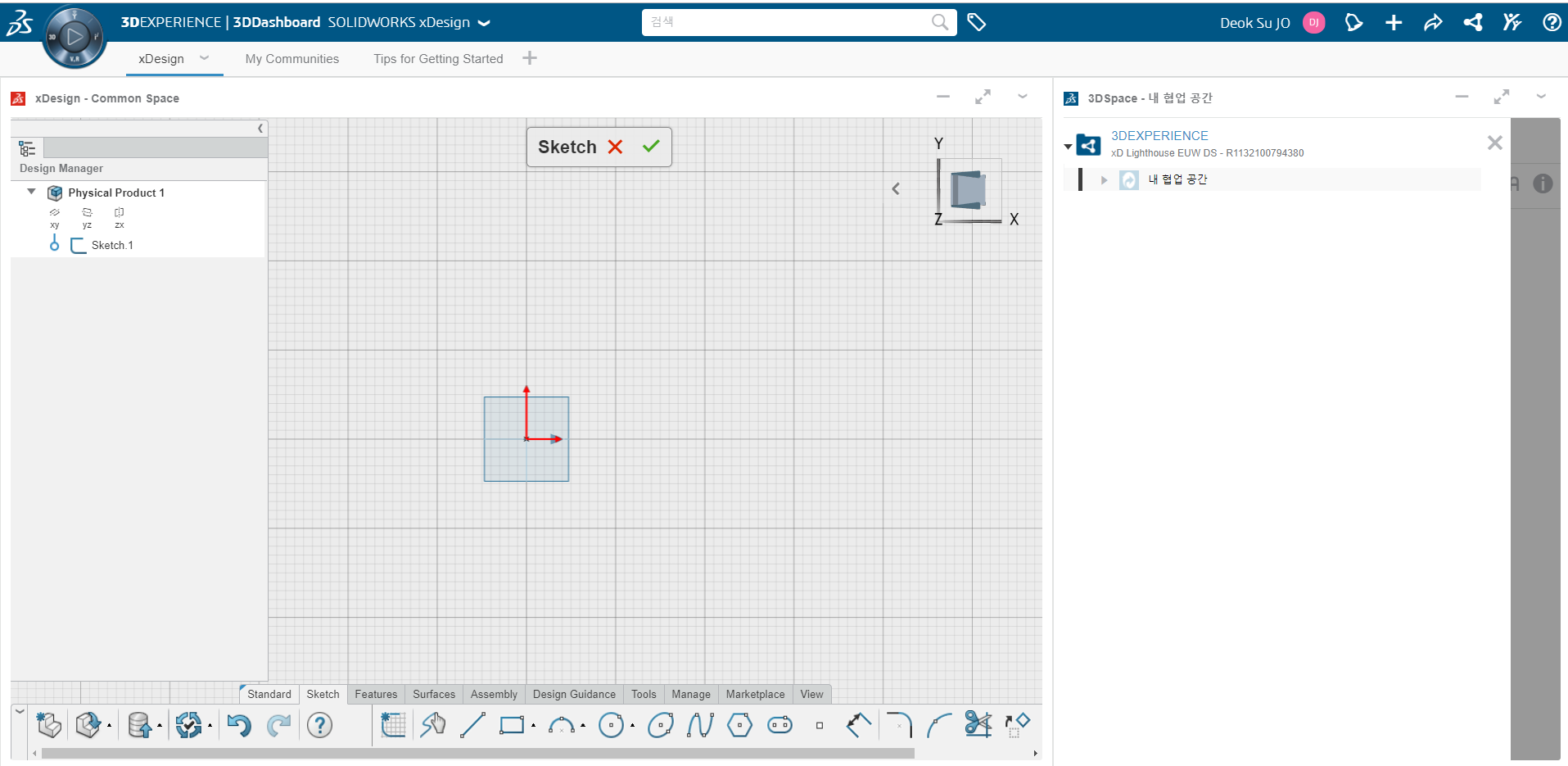
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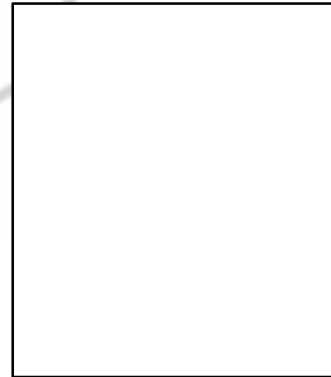
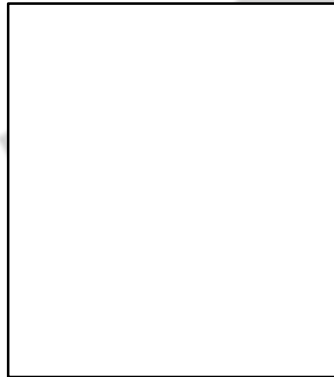
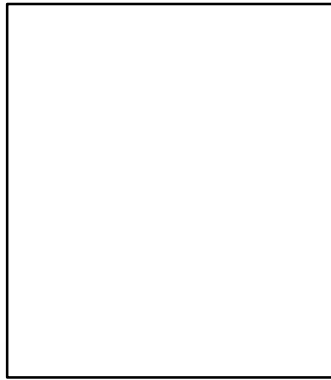
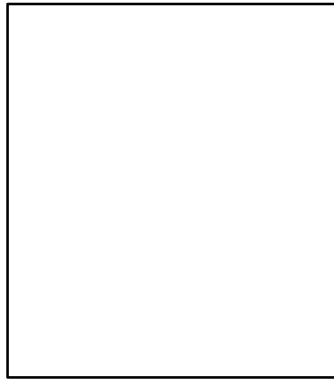




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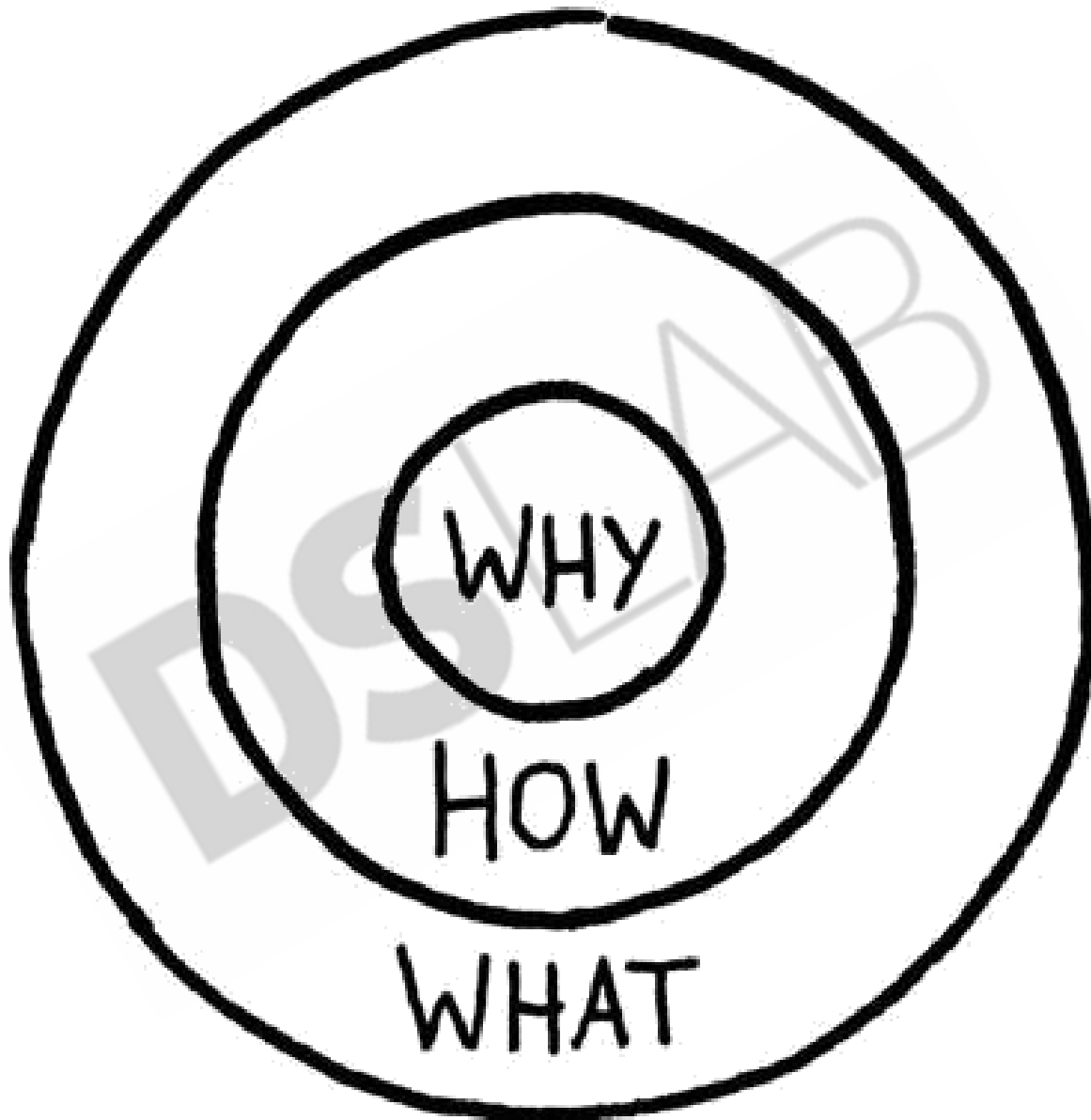
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관리

스크린

프로젝트 기획하기



Thank you

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