

# CS148 Final Project Report

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## Inspiration

I aimed to recreate the following image, courtesy of IKEA's bedroom gallery. As the bedroom seemed to extend into another room, I had modified it to fit into a single room, cropping the image at the right curtains.



<https://www.ikea.com/us/en/rooms/bedroom/gallery/a-modern-space-full-of-calming-bedroom-ideas-pubfe5de960>

Final Image



Variant A



## Variant B



## Project Requirement Fulfillment

### Geometry

All geometry was created from scratch.

### UV Mapping and Texturing

I UV unwrapped the following objects and applied the following textures:

- Bed headboard and baseboards: <https://ambientcg.com/view?id=Fabric066>
- Flower pot: <https://ambientcg.com/view?id=Clay001>
- Base of lamp on the far left:  
<https://www.poliigon.com/texture/plain-flat-drapery-fabric-grey/6215>
- Plant: <https://ambientcg.com/view?id=Bark001>
- Cone on the far right on the dresser: <https://ambientcg.com/view?id=Fabric034>
- Pieces on the wall art: <https://ambientcg.com/view?id=Fabric073>
- Pages on edges of books: texture download from [tutorial](#)

I create a procedural smooth concrete texture for the floor.

### Blender/Cycles feature

I used depth of field to make the plant and pot blurry while keeping the main focus on the bed. I had also used the particle system to create the rug and denoising.

## Tutorials Referenced

- Curtain: [https://www.youtube.com/watch?v=kVvOk\\_7PoUE&ab\\_channel=BlenderBox](https://www.youtube.com/watch?v=kVvOk_7PoUE&ab_channel=BlenderBox)
- Pillow: <https://www.youtube.com/watch?v=GnjPD6zeAqA>
- Blanket:  
[https://www.youtube.com/watch?v=ZBqBkM7w3ik&t=699s&ab\\_channel=Bro3D](https://www.youtube.com/watch?v=ZBqBkM7w3ik&t=699s&ab_channel=Bro3D)
- Rug:  
[https://www.youtube.com/watch?v=bFV0y2-g1Kk&ab\\_channel=ThilakanathanStudios](https://www.youtube.com/watch?v=bFV0y2-g1Kk&ab_channel=ThilakanathanStudios)
- Books: [https://www.youtube.com/watch?v=lZalkmRK5Gc&ab\\_channel=BlenderStuffs](https://www.youtube.com/watch?v=lZalkmRK5Gc&ab_channel=BlenderStuffs)
- Folded book: [https://www.youtube.com/watch?v=aDOxTniM0Wg&ab\\_channel=RigiT](https://www.youtube.com/watch?v=aDOxTniM0Wg&ab_channel=RigiT)
- Tree: <https://www.youtube.com/watch?v=MDXB3SDQHYw>
- Procedural concrete:  
[https://www.youtube.com/watch?v=uCyUt1Jaufk&t=634s&ab\\_channel=RyanKingArt](https://www.youtube.com/watch?v=uCyUt1Jaufk&t=634s&ab_channel=RyanKingArt)