# **Interactive Graphics**

## Spring 2019 – Final Project

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# Introduction

As final project we have decided to implement a basic character that can move around in an environment. The character can be customized by adding to it a hat or a pair of glasses.

To handle the graphic part of the project we decided to use the following libraries:

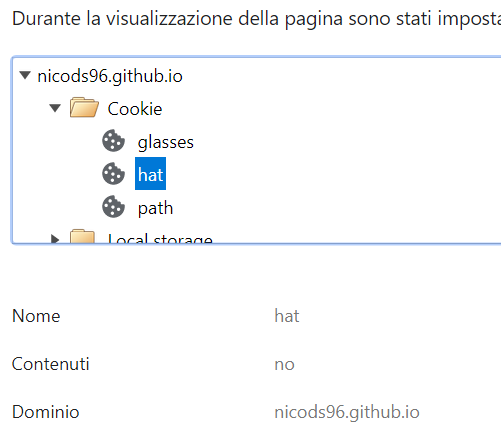
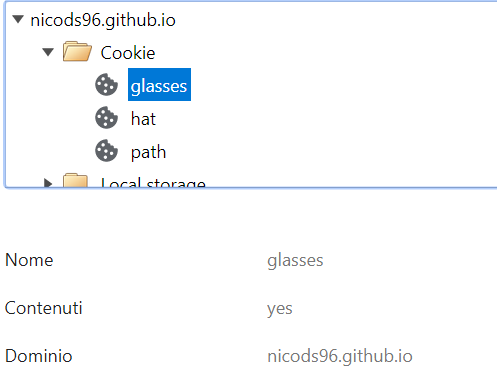
* Three.js as core graphic library;
* DAT.GUI.js and OrbitControl.js for better and faster debug, but they are not used in the final project
* GLTF and OBJ Loaders from Three.js extensions have been used to import externa models
* Tween.js as useful tool to implement better animations with few lines of code an great results.

To design the introduction page of the project, we have used the bootstrap framework to achieve a UI style that is intuitive and that is uniform among the majority of devices and browsers.

# Usage Guide

The first page loaded when clicking on the project link is the index.html page. The page is a simple html page with two buttons: New Game and Customize. By clicking ‘customize’ button two other buttons will appear and you can either add glasses or a hat or you can make those two buttons disappear again by clicking on customize again.

By clicking on ‘New Game’ you will start the loading of another page, index2.html, that will load the character inside an environment. Since HTTPS is stateless, to transfer the choices of gadgets (hat and/or glasses) to customize the character to index2.html we have used cookies. In particular, the cookie will contain glasses=yes;hat=no; if for example we have added glasses but we didn’t add hat.



Cookies set to store customization choices.

**It will be then very important to enable cookies for the domain of the project.**

Once the model is loaded inside a room, it will be possible to click with the mouse inside the room, and the character will move till the clicked point. Button will be showed to change room.

# Structure of the Project

The project is organized into folders, each of them representing a semantic area:

* The root folder contains the index.html and index2.html that are the pages containig, respectively, the user interface to customize the character and start the game, and the core page at which we are redirected after the character customization, that will host the threejs scene.
  + The folder models will contain all the .gltf and .obj models used in the project. The models are all taken from <https://sketchfab.com/> except for the character that is taken directly from the three.js examples folder on github <https://github.com/mrdoob/three.js/tree/dev/examples/models/gltf/RobotExpressive>. They are all free models with license for free usage for non-commercial purposes.
  + The folder ‘*lib*’ contains all the libraries used and listed above, except for the bootstrap (<https://getbootstrap.com/>) framework that is imported though CDN
  + The ‘*js*’ folder, containing all the javascript written from the group for this project. This folder contains an internal subdivision too:
    - ‘*Environments*’ folder, with the scripts to initialize the environments in which the character will move. They have been implemented one for project member.
    - ‘*Animations*’ containing all the animation implemented with the help of Tween.js
    - ‘constants’ contains some constant variables useful in multiple scripts.
  + The ‘*img*’ folder, containing the pictures used as textures in the project.

# Three.js Description

Three.js is a JavaScript Object Oriented framework that is used to create and display 3D animated graphics in a web browser. This library helps the creation of video games, animations or 3D graphics as part of the internal browser without the use of external plugins. All this is thanks to the use of WebGL by the same library. Three.js allows you to create a programming e-mail already created, saving the programmer more time. Furthermore this library is easily set with HTML5 elements such as canvas.

# External Models

The external model used in the project are all GLTF models.

GlTF (GL Transmission Format) is an open format specification for efficient delivery and loading of 3D content. Assets may be provided either in JSON (.gltf) or binary (.glb) format. External files store textures (.jpg, .png) and additional binary data (.bin). A glTF asset may deliver one or more scenes, including meshes, materials, textures, skins, skeletons, morph targets, animations, lights, and/or cameras. (Three.js Documentation, s.d.)

**NOTE: IE11 is not supported yet, please use Mozilla Firefox or Google Chrome.**

# Environments

To draw environment we have decided that, since some of them use heavy weight models, when switching between environments, the previous one is replaced with the next one. To do so, we act at HTML level, replacing the canvas each time we draw a new scene. This is done within the hypothesis that a user will spend more time using the character inside an environment than switching between scenes.  


To draw environments, three function are available at location */js/environments/*, that are bedroom(), garden(), kitchen().

## Bedroom

For the bedroom environment we have first built a scene. Then a perspective camera has been added to the three.js scene as well as both directional and ambient light. The loader then is initialized with the path of the model and the on-Load, on-Error and on-Progress call-backs. The model contains floor, a bed, a desk, and a training ball.

The on-Load call-back performs the core operation on the model. In particular it will traverse the model and, for each mesh inside it, it will enable the cast shadow mode (by default is disabled). After that, with the aid of the THREE.Box3 utility, we set up a cube mesh that can contain inside it the loaded model and that will form the room skeleton: each side of the cube will be a wall/roof/floor. To make it look real, a cubemap has been used to add texture to each side of the cube, to allow it to reproduce a room without furnishings.



Outside and inside view of the cubemap

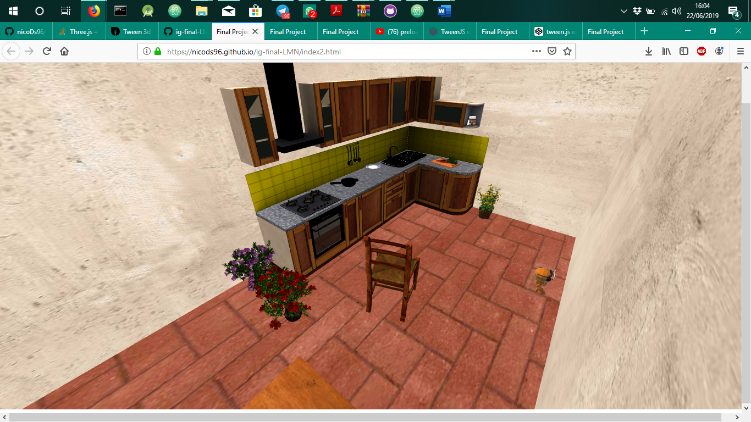
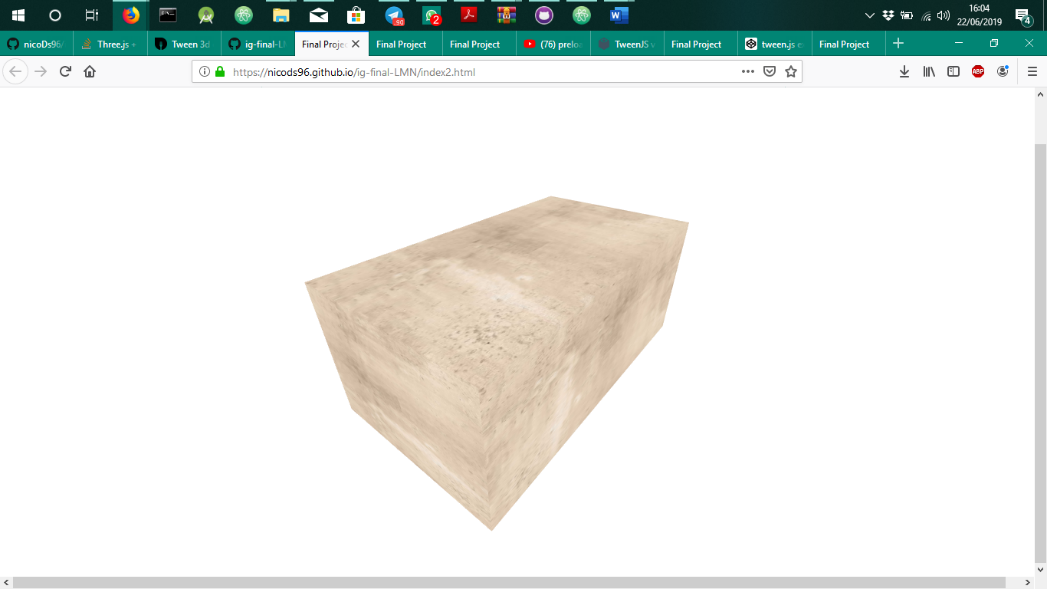
The call-back to load the character inside the environment is a little bit more structured. We are going to give all the details into the [character chapter](#_Character_Model). Here we just limit the description to what follows: we need to traverse the whole model, extract the skeleton and reconstruct it to use animation with skinning, retrieve the customization options from cookies and, if needed, load the ornamentation models. Once those operations are completed, the animations are loaded, and the room is ready to be used (i.e. it is possible to point and click to let the model move).

## Garden

## For the realization of the garden environment a scene and a perspective camera was created. After that, a hemisphere light was implemented to faithfully reproduce sunlight. the environment is realized inside a cubemap and personalized through various models such as the fountain, the gazebo and the tree. After this, our robot is inserted into the scene, checking for any customization options (hat, glasses). Finally the movement animation is implemented thanks to the use of raycasters.

## Kitchen

The kitchen section was created by creating a scene and initializing a perspective room. Lights (directional and ambient) were also loaded into the scene. A loader has been added that allows us to add models to the scene: in particular, models in GLTF format have been added, a kitchen composed of a kitchen countertop, a hood, a sink, objects such as crockery, carrots and a chocolate jar , the tiles and a sideboard and some objects (as you can see in the figure below) like flowers and chairs. A table has also been added. The method of loading the model is identical to that described in the previous two rooms. Then the cubemap that represents the wrapper of all the models inserted inside (including the small robot that will represent the character) has been initialized. To make it look real, to make it look to add texture to the side.



Outside and inside view of kitchen cubemap

# Character Model

The character is also a GLTF model. By default the model has built in animations that are completely ignored into the project. The interesting part of using this model is the possibility of use skinning and bones for animations.

## Skinned Mesh

First of all, while traversing the model, we look for an object whose name is ‘*RobotArmature*’. The RobotArmature object is the root bone of the model’ skeleton. We store it into a global variable and, once the model is fully loaded, we use the root bone to initialize a skeleton. Mentioning three.js documentation, we can say a skeleton is an object that use an array of bones, it can be used by a SkinnedMesh.

A SkinnedMesh is a mesh that has a Skeleton with bones that can then be used to animate the vertices of the geometry. The material must support skinning and have skinning enabled. Using a SkinnedMesh to animate the character is very useful since the whole process will reduce to a series of joint rotations or bones translation. Moreover, a skeleton has a hierarchy, and then we can translate the whole character translating its root bone or we can rotate an entire arm by rotating only the shoulder joint.

This technique is used by constructing a series of 'bones,' sometimes referred to as rigging. Each bone has a three-dimensional transformation from the default bind pose (which includes its position, scale and orientation), and an optional parent bone. The bones therefore form a hierarchy. The full transform of a child node is the product of its parent transform and its own transform. So, moving a thigh-bone will move the lower leg too.

Strengths of this approach: a bone represents a set of vertices (or some other objects, which represent for example, a leg), bones are independently movable the animator controls fewer characteristics of the model and it can focus on the large scale motion, an animation can be defined by simple movements of the bones, instead of vertex by vertex (in the case of a polygonal mesh). Weaknesses of this approach: a bone represents a set of vertices (or some other objects) and does not provide realistic muscle movement and skin motion.

## Customization

To customize the aspect of the character and to implement a more complex hierarchical model, we have both grouped together two imported models (character and hat) and we have build an object (glasses) starting from grouping three.js basic meshes and then we have again grouped the glasses hierarchical model with the character model. To build the hierarchy the THREE.Group() utility has been used. It is quite like an Object3D, with the difference that allows us to deal with multiple object easly.

If all the gadgets are added to the model, then the hierarchy is something like:

…**…**

Bone1

…**…**

Armature

Meshes

Stick2

Stick1

Lens2

Lens1

Root

Stick3

Glasses

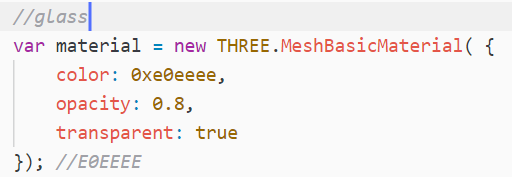
Robot

Hat

So, the hierarchy can be also defined dynamic, since it can change during the execution.

### Glasses Draw

To draw the glasses, we can check the procedure *drawGlasses()* into the file */js/drawAccessories.js*. To build lens, we have used a cylinder geometry with a very low height. We have also used a low number of vertices to give lens a eave shape. To simulate glass material, a MeshBasicMaterial has been used with transparency and opacity settings:



Sticks instead use a box geometry and a simple dark green mesh basic material. After all the components are positioned, they are added to a group and returned to the loader procedure that invokes the drawGlasses() function.

### Glasses Load

To Load glasses, we first checks the cookies to see if they must be on the character, then if yes we call the drawGlasses() procedure and we will periodically check to see if the model has been loaded. Once it is correctly loaded, we can adapt them to the model and add them to the model hierarchy:



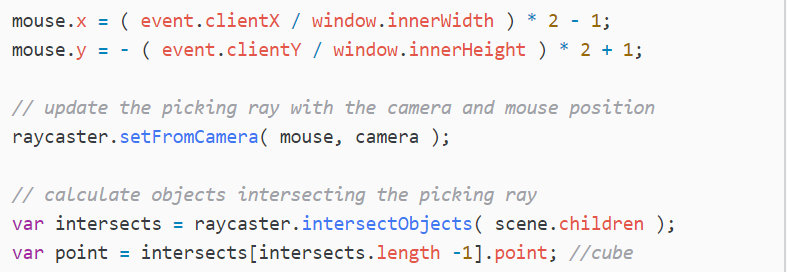
### Hat Load

Since the hat is an externa model, we refer to previous illustrated loader procedures to details. Once it is loaded, since the loading of the model is not instantaneous neither synchronous, we use a synchronous procedure to check whether it is null or not. Once it is no more null, the model is loaded successfully, and we can position it and add it to the character hierarchy.

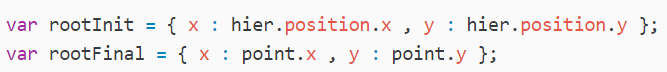
## Point and Click – Raycaster

The key interaction with the user is the point and click to specify where the character should move. To obtain the point from the mouse click, we exploit the raycaster.

Ray casting is the use of ray–surface intersection tests and has a variety of application, especially in computer graphics. We have used it to ‘draw’ a ray that goes from the camera to the point clicked by the mouse. This ray is going to intersect some object into the scene (it have to since the camera is fixed and surrounded from a box). We are sure that, by design of the environment, the last object intersected will be the cube, representing the room’s foundations. We will then get the coordinates of the cube point intersected and will use the planar coordinate x and y to tell character where it has to translate.



Then an animation is started, that goes from the actual character position to the point get from the raycaster. Follows the code, more detail on the animation in the Animation chapter.



## Animation

Skeletal animation is a technique in computer animation in which a character (or other articulated object) is represented in two parts: a surface representation used to draw the character (called skin or mesh) and a hierarchical set of interconnected bones (called the skeleton or rig) used to animate (pose and keyframe) the mesh. While this technique is often used to animate humans or more generally for organic modelling, it only serves to make the animation process more intuitive, and the same technique can be used to control the deformation of any object. (Skeletal animation, s.d.)

### Tween.js for Skeletal Animation

In three.js, animation is quite complicated. It’s hard enough to orient and translate meshes in 3d space. When you add a fourth dimension and the coordinates of hundreds of vertices, the task seems impossible.

Skeletal animation is objects with skeletons. That includes people walking, cats meowing, robots working, snakes a-slithering, octopi a-swimming, tails a-wagging and anything else with a skeleton-like structure.

If a model has a skeleton, we call it a “rigged” model. A powerful feature of many modeling programs called inverse kinematics can be used with rigged models that calculates realistic movement of a chain of bones. You can read about [inverse kinematics](http://www.threejsworld.com/tutorials/inverse-kinematics-in-three-js) for more on that.

Tween.js really is a great tool to use with three.js. It keeps an array of the tweens that are running and discards them when they are complete.

# Collision Detection

Since more than one person have worked to the collision detection, two types of collision detection have been implemented, one using raycaster and the other using boxes intersections.

## Raycaster

For the collision detection, invisible boxes have been created adapted to the shapes of the models present on the scene. Within the tween.onUpdate() function, the position of the model is updated (updating invisibleBox position we update also the robot model position because it is child of invisibleBox). Then, a check is performed to detect any collisions between the vertices of the box relative to the robot and the boxes of the various models; this functionality is implemented through the raycaster. All the invisible boxes are stored in the collidableMeshList variable. When a collision is detected, through the tween.stop() function the displacement animation is interrupted to avoid the overlap between the two models.

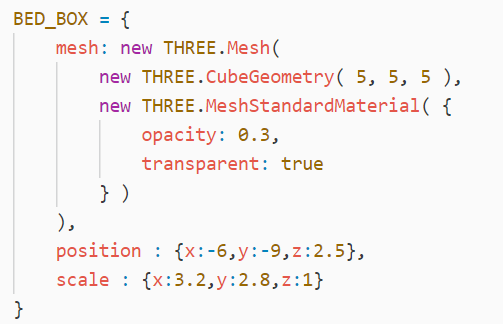
![Immagine che contiene screenshot

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDyRXhpZgAATU0AKgAAAAgABAE7AAIAAAANAAAISodpAAQAAAABAAAIWJydAAEAAAAaAAAQ0OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1hdHRlbyBSaXp6YQAAAAWQAwACAAAAFAAAEKaQBAACAAAAFAAAELqSkQACAAAAAzY5AACSkgACAAAAAzY5AADqHAAHAAAIDAAACJoAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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The raycaster simply checks for each vertex of our character (to be precise of the box including the character) if they intersect any object and stops the animation if true.

## Collision detection with boxes

It has been implemented into the bedroom environment (environments/bedroom.js) inside the function checkCollision(). The function is called each time the translation animation is updated. To implement collision detection with boxes we have defined a series of boxes that wrap the walls and objects in the scene (this is done because the boxes built around all the meshes inside the model were not accurate enough). Here is an example of box definition:



Then a box around the character is built, referenced into the code as invisbleBox:



The collision mechanism does the following: for each defined box checks whether they intersect or not the invisible box (the box built around the character) using the Box3 method intersectBox(). If there is a collison there is also an intersection. When a collision is detected, the box surrounding the object is displayed for one second and then removed. After a collision is detected the games end. Follows the code of the loop that checks for collisions:



The collision detection loop.

This approach is valid if the number of boxes is not huge (this is the case), otherwise it can crate overload to the system.

# References

*Skeletal animation*. (s.d.). Tratto da https://en.wikipedia.org/wiki/Skeletal\_animation

*Three.js Documentation*. (s.d.). Tratto da https://threejs.org/docs/