

# INTRODUCTION TO 3D ANIMATION

PAFSE: Partnerships for Science Education

Project approved under Horizon 2020: Science with  
and for Society  
Call: H2020-SwafS-2018-2020  
Topic: Open schooling and collaboration on science  
education



WHAT IS 3D ANIMATION?

- 3D (three-dimensional) animation is the type of animation that uses images generated by a computer to create animated sequences.
- 3D animation is entirely computer-generated (except for Stop-Motion Animation, which is also a form of three-dimensional animation without the use of computer software). This type of animation allows total control of the scene, characters and objects in all 360° perspectives in a virtual space. Unlike 2D animation where each perspective is drawn frame by frame, in 3D animation there is control over one or more cameras that allow you to choose the angle at which the image will be captured over the elements that make up the scene.



# HOW IMPORTANT IS 3D ANIMATION?

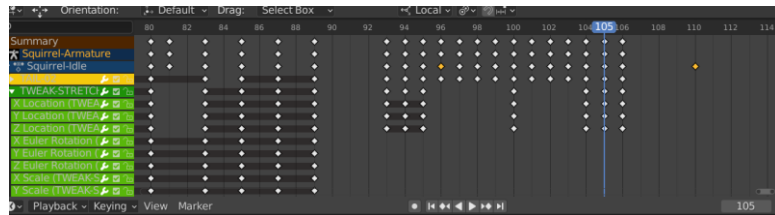
- With the advance of technology, 3D animation has emerged with the aim of meeting current demands and offering increasingly real, sophisticated and interactive experiences. Using this technique, it is possible to create scenarios rich in detail that give the impression of being real.
- In games, 3D animation is done in real time, i.e. the simulation of textures, shadows and other features are created on screen while the game is running. Thanks to this technique, the games market is constantly evolving and movie and game experiences are getting better and better.



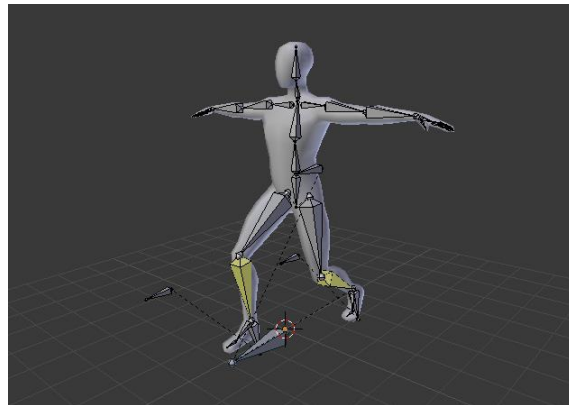


# WHAT ARE THE MAIN TYPES OF ANIMATION?

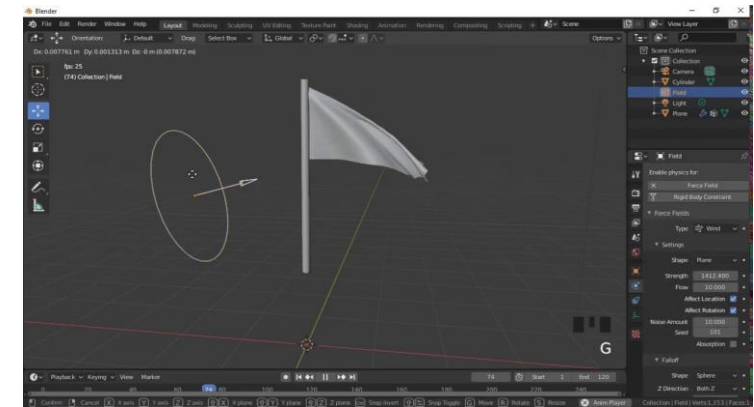
- Different techniques can be used to animate objects, such as keyframe animation, skeleton animation or physics-based animation.



*keyframe animation*



*skeleton animation*

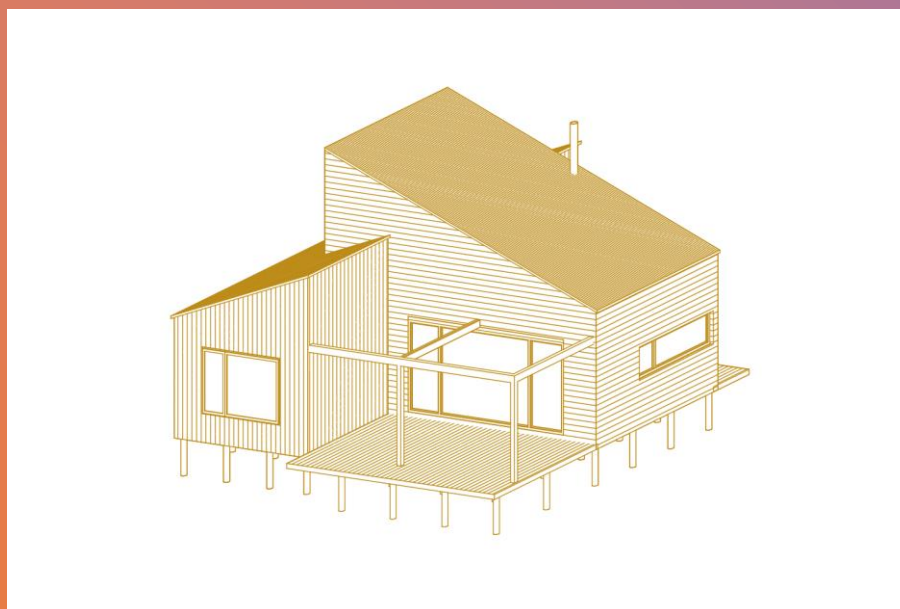


*physics-based animation*

# 3D ARCHITECTURAL ANIMATIONS

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# 3D CHARACTER ANIMATIONS

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# 3D GRAPHICS ANIMATIONS

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# 3D PRODUCT VISUALIZATION

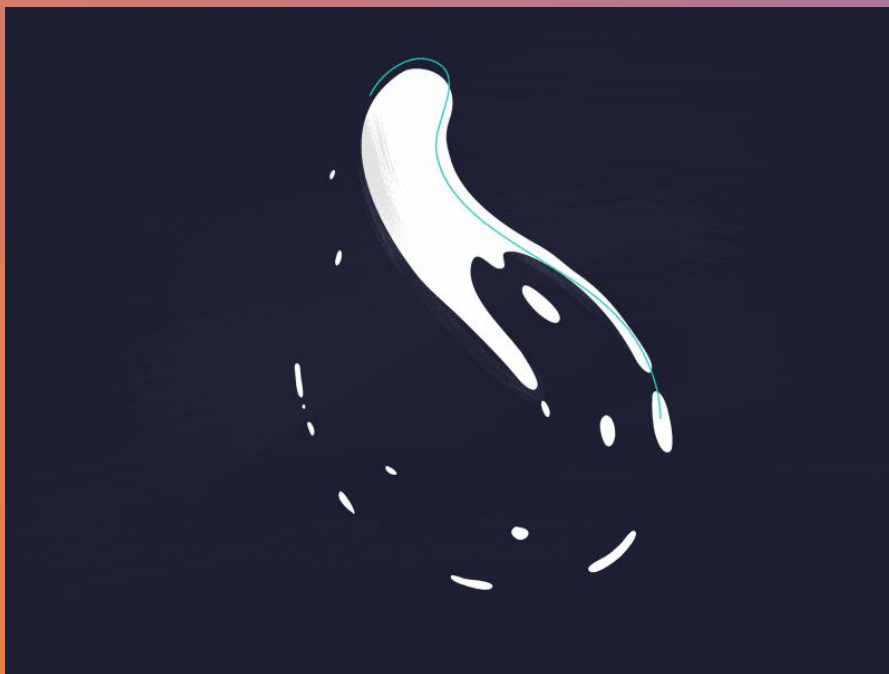


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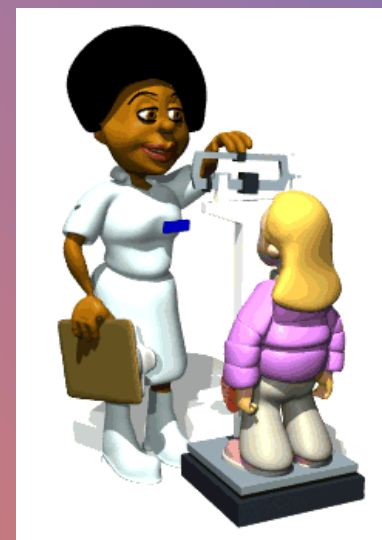
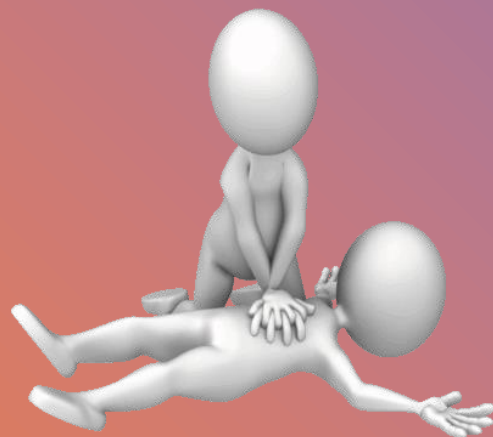
# 3D ANIMATIONS OF WEBSITE INTROS



# HEALTH-RELATED ANIMATIONS IN 3D

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