

Rendering a Video

Spoken Tutorial Project

<https://www.spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Rani Parvathy

IIT Bombay

23 October 2020



Learning Objectives



Learning Objectives

► Render panel and setting



Learning Objectives

- ▶ **Render panel and setting**
- ▶ **Resolution, frames per second (fps) and key frame**



Learning Objectives

- ▶ **Render panel and setting**
- ▶ **Resolution, frames per second (fps) and key frame**
- ▶ **Setting directory for render**



Learning Objectives

- ▶ Render panel and setting
- ▶ Resolution, frames per second (fps) and key frame
- ▶ Setting directory for render
- ▶ Video and audio file formats



Learning Objectives

- ▶ **Render panel and setting**
- ▶ **Resolution, frames per second (fps) and key frame**
- ▶ **Setting directory for render**
- ▶ **Video and audio file formats**
- ▶ **Render a video and create an output file**



Learning Objectives



Learning Objectives

- ▶ **Create a render preset for dimensions**



Learning Objectives

- ▶ Create a render preset for dimensions
- ▶ We will also learn about few shortcut keys



Learning Objectives

- ▶ **Create a render preset for dimensions**
- ▶ **We will also learn about few shortcut keys**



Learning Objectives

- ▶ **Create a render preset for dimensions**
- ▶ **We will also learn about few shortcut keys**



System Requirements



System Requirements

► **Ubuntu Linux v18.04 OS**



System Requirements

- ▶ **Ubuntu Linux v18.04 OS**
- ▶ Blender v2.90.1



Pre-requisites

- ▶ **Learner must be familiar with the Blender interface**



Pre-requisites

- ▶ **Learner must be familiar with the Blender interface**
- ▶ **For pre-requisite tutorials please visit this site**
<https://www.spoken-tutorial.org>



Code Files



Code Files

- ▶ The files used in this tutorial are provided in the **Code files** link



Code Files

- ▶ The files used in this tutorial are provided in the **Code files** link
- ▶ Please download and extract the files



Code Files

- ▶ The files used in this tutorial are provided in the **Code files** link
- ▶ Please download and extract the files
- ▶ Make a copy and then use them while practising



Time Taken for Render



Time Taken for Render

- ▶ Rendering time depends on the fps of the video



Time Taken for Render

- ▶ **Rendering time depends on the fps of the video**
- ▶ **Generally in videos are recorded with 25 to 50 fps or more**



Time Taken for Render

- ▶ Rendering time depends on the fps of the video
- ▶ Generally in videos are recorded with 25 to 50 fps or more
- ▶ Then rendering will take much longer time than 2 fps video



Shortcut Keys



Shortcut Keys

**Show/hide information
panel or Sidebar**

N

**Copy a strip
Effects menu**

Shift+N

Shift+A

Delete

X

Go to current frame

Numpad+0



Summary

- ▶ **Render panel and setting**
- ▶ **Resolution, fps and key frame**
- ▶ **Setting the directory for render**
- ▶ **Video and audio file formats**



Summary

- ▶ **Rendered a video and create an output file**
- ▶ **Created a render preset for dimensions**
- ▶ **Learned about few shortcut keys**



Assignment

Using the video file [assignment.webm](#) provided in the [Code files](#) link,

- ▶ Render and save the video file
- ▶ Practice and familiarize with different output formats and settings



Assignment

- ▶ The file given for assignment was downloaded from https://commons.wikimedia.org/wiki/File:Annual_Sea_Ice_Minimum/_1979-2013_with_Area_Graph.ogv
- ▶ You may also use a file of your choice



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to **contact@spoken-tutorial.org**



Forum questions

- ▶ Questions in THIS Spoken Tutorial?
- ▶ Visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer

You will have to register to ask questions



Acknowledgements

Spoken Tutorial Project is supported by

- ▶ **National Mission on Education through ICT (NMEICT)**
- ▶ **Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)**

MHRD, Government of India

