

Editing the JSmol Integrated Web Page

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

Snehalatha Kaliappan, Sunil Shetye

Madhuri Ganapathi

IIT Bombay

7 December 2022



Learning Objectives

In this tutorial, we will learn to,



Learning Objectives

In this tutorial, we will learn to,

- ▶ **Edit the HTML page to add 3D models of chemical structures**



Learning Objectives

In this tutorial, we will learn to,

- ▶ Edit the HTML page to add 3D models of chemical structures
- ▶ Add interactive radio buttons and checkboxes



Learning Objectives

- ▶ **Add script commands to show animations**



Learning Objectives

- ▶ **Add script commands to show animations**
- ▶ **Run the edited HTML page locally using HTTP server, localhost 80**



System Requirements

Here I am using,



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▶ **Ubuntu Linux OS version 20.04**



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- ▶ **Firefox web browser version 100.0**



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- ▶ **Gedit version 3.36.2**
- ▶ **Jmol/JSmol version 14.32.83**



Pre-requisites



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To follow this tutorial learner should be familiar with,



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To follow this tutorial learner should be familiar with,

- ▶ **undergraduate chemistry**



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- ▶ undergraduate chemistry
- ▶ basic skills in using a computer



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- ▶ **script commands in Jmol**



Pre-requisites

- ▶ **Jmol Spoken Tutorials link:**
<https://spoken-tutorial.org>



Code Files

- ▶ The input files required for this tutorial are available in the Code files link



Code Files

- ▶ **The input files required for this tutorial are available in the Code files link**
- ▶ **Please download and extract the files**



Code Files

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- ▶ Please download and extract the files
- ▶ Make a copy of all the files and then use them for practising



About the Web Page

- ▶ The web page we will be creating will have content on conformations of n-butane



About the Web Page

- ▶ The web page we will be creating will have content on **conformations of n-butane**
- ▶ The web page will have interactive 3D models of conformations of n-butane:
anti, gauche and eclipsed



Summary

We have,

- ▶ Edited the HTML page to add 3D models
- ▶ Added interactive radio buttons and checkboxes
- ▶ Added script commands to show animations



Summary

- ▶ **Ran the edited HTML page locally using HTTP server, localhost 80**



Assignment

Using the input file, [example2.html](#) as a template:

- ▶ Create a JSmol integrated web page with the content of your choice
- ▶ Add interactive buttons and animations



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**



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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



Answers for THIS Spoken Tutorial

- ▶ **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 funded by
Ministry of Education (MoE), Govt. of
India**

