Writing Commands

Talk to a Teacher
http://spoken-tutorial.org
National Mission on Education through ICT
http://sakshat.ac.in

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Learning Objectives

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Type commands to,

▸ **Change the display to atoms**

Learning Objectives

Type commands to,

- **Change the display to atoms**
- **Show and hide ribbons**

Learning Objectives

Type commands to,

- **Change the display to atoms**
- **Show and hide ribbons**
- **Change the color of the amino acid residues**

Learning Objectives

Type commands to,

- **Change the display to atoms**
- **Show and hide ribbons**
- **Change the color of the amino acid residues**
- **Label individual residues**

Learning Objectives

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- **Remove solvent molecules**

Learning Objectives

- **Remove solvent molecules**
- **Save the image in different file formats**

Pre-requisites

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- **Undergraduate Biochemistry**

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- **Structural Biology**

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- **Chimera interface**

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- **Undergraduate Biochemistry**
- **Structural Biology**
- **Chimera interface**
- **http://spoken-tutorial.org**

System Requirement

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- **Ubuntu OS version 14.04**

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- **Chimera version 1.10.2**

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- **Ubuntu OS version 14.04**
- **Chimera version 1.10.2**
- **Mozilla firefox browser 42.0**
- **Working internet connection**

Chimera Commands

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- **Chimera commands are entered at the Command line**

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- **Multiple commands can be combined into one line with semicolon separators**

Chimera Commands

- **Chimera commands are entered at the Command line**
- **Multiple commands can be combined into one line with semicolon separators**
- **Press Enter key to execute the command**

Chimera Commands

- **Previous commands can be accessed from command History**

Chimera Commands

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- http://www.cgl.ucsf.edu/chimera/docs/UsersGuide/framecore.html

Summary

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Commands to,

- **Change the display to atoms**
- **Show and hide ribbons**
- **Change the color of the amino acid residues**
- **Label individual residues**

Summary

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- Remove solvent molecules
- Save the image in different file formats

Assignment

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Type Commands to,

- **Load the structure of Human Oxyhemoglobin (PDB code: 2dn1)**
- **Change the display to atoms and hide ribbons**
- **Color all histidine residues in green**
- **Remove the solvent molecules**
- **Save the image in JPEG format**

About the Spoken Tutorial Project

- **Watch the video available at** http://spoken-tutorial.org /What_is_a_Spoken_Tutorial

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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**

Acknowledgements

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- **It is supported by the National Mission on Education through ICT, MHRD, Government of India**

- **More information on this Mission is available at http://spoken-tutorial.org /NMEICT-Intro**