The Spoken Tutorial project

- Self explanatory uses simple language
- · Audio-video uses multisensory approach
- Small duration has better retention.
- Learner-centered learn at your own pace
- Learning by doing learn and practice simultaneously
- Empowerment learn a new FOSS

Target group

- School students
- College students and graduates
- Research scholars
- Teacher educators

Workshops

The Spoken Tutorial Project Team conducts work-shops on GChemPaint and other FOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please write to contact@spoken-tutorial.org

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is funded by the
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IIT Bombay

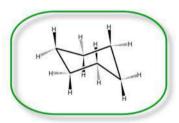
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GChemPaint



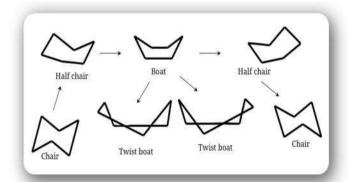
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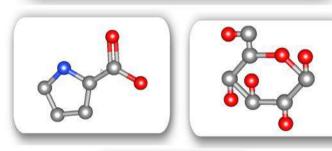
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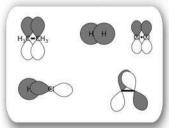
http://spoken-tutorial.org

Introduction

- GChemPaint is a two dimensional chemical structure editor for Linux Operating System.
- It is a Free and Open Source Software(FOSS) developed in 'C'.
- It is useful for students, teachers, researchers and teacher educators.
- For details about GChemPaint visit: http://www.nongnu.org/gchempaint/

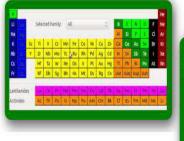


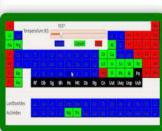




Features of GChemPaint

- GChemPaint allows to draw and display two dimensional chemical structures.
- Tool box contains various tools to draw structures, bonds, orbitals and type text.
- It has inbuilt Templates with different categories of structures to load into GChemPaint Display area.
- It has an inbuilt Modern Periodic Table.
- It supports multiple file formats like .mol, .pdb, .svg, .pdf etc.
- It has an inbuilt Chemical Calculator to calculate molecular weight of compounds.
- It helps to convert 2D structures to 3D structures using GChem3D feature.
- In GChem3D, structures can be viewed in Ball and sticks, Space filling, Cylinders and Wireframe.
- Periodic table trends and properties can be shown using the GChemTable feature.
- Different types of charts can be created and viewed using GChemTable.





Uses of GChemPaint

- View mass spectrum of the molecule using Chemical calculator.
- Change length, angle and width of the bonds using Preferences window.
- Structures can be rotated in GChem3D.
- Magnification of structures, automatic and manual assignment of atoms can be done in the window.
- We can drag and drop Templates and also create new Templates.
- It allows to use various residues and create new residues.
- It can group and align different objects as one single object.
- We can view NIST Web Book page and PubChem page for a molecule.
- Images can used in print media, journals and publications.

