

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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Contact Us

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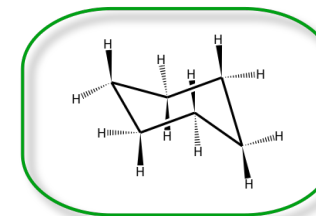
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Spoken Tutorials



GChemPaint



National Mission on Education through Information and Communication Technology (NMEICT)

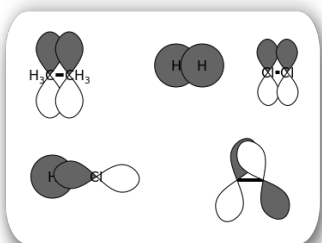
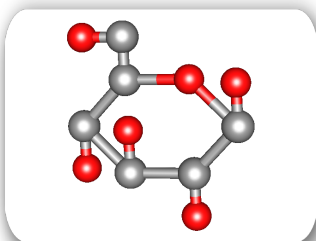
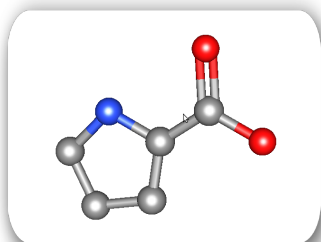
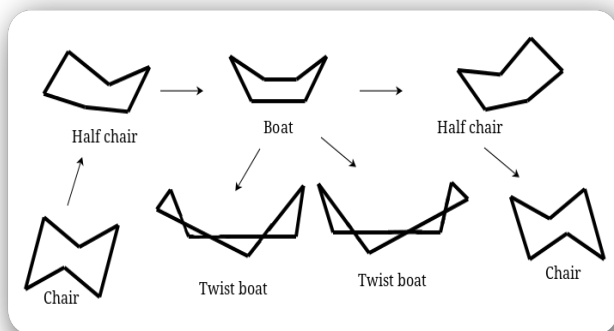
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An MHRD initiative

<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.

Screenshot of the GChemTable periodic table interface, showing element symbols and names.

Screenshot of the GChemTable periodic table interface, showing element symbols and names, with a temperature slider set to 1037 K.

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 be used in print media, journals and publications.

