

Overview of CellDesigner

Talk to a Teacher

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

Bella Tony

IIT Bombay

10 May 2016



Learning Objectives



Learning Objectives

In this tutorial we will learn about:



Learning Objectives

In this tutorial we will learn about:

- **The CellDesigner series**



Learning Objectives

In this tutorial we will learn about:

- The CellDesigner series
- **And the content available in various tutorials under this series**



Overview of CellDesigner

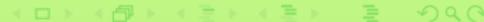


Overview of CellDesigner

- **This series is based on Version 4.3**



Overview of CellDesigner



Overview of CellDesigner

Note to learners:



Overview of CellDesigner

Note to learners:

- **First-time users of CellDesigner should go through the Startup Guide Version 4.3**



Overview of CellDesigner



Overview of CellDesigner

The link-:



Overview of CellDesigner

The link-:

[http://celldesigner.org/documents/
StartupGuide41.pdf/](http://celldesigner.org/documents/StartupGuide41.pdf)



Installation of CellDesigner on Windows



Installation of CellDesigner on Windows

- **Installation of CellDesigner on Windows machine**



Getting Started with CellDesigner



Getting Started with CellDesigner

- **Menu and toolbars**



Getting Started with CellDesigner

- Menu and toolbars
- **Areas in CellDesigner**



Getting Started with CellDesigner

- Menu and toolbars
- Areas in CellDesigner
- **And Components in CellDesigner**



Getting Started with CellDesigner



Getting Started with CellDesigner

- **This tutorial was recorded on Windows OS**

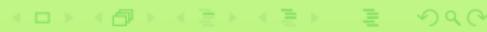


Getting Started with CellDesigner

- This tutorial was recorded on Windows OS
- Linux users should not skip this tutorial



Installation of CellDesigner on Linux

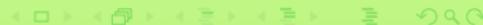


Installation of CellDesigner on Linux

- **Installation of CellDesigner on Linux**



Create and Edit Components



Create and Edit Components

This will help us to know how:



Create and Edit Components

This will help us to know how:

- To open an already saved .xml file



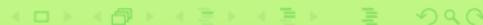
Create and Edit Components

This will help us to know how:

- To open an already saved .xml file
- **Change the size, shape, color and thickness of the border of a Compartment**



Create and Edit Components



Create and Edit Components

contd.



Create and Edit Components

contd.

- **Create multiple files in CellDesigner**



Create and Edit Components

contd.

- **Create multiple files in CellDesigner**
- **Learn about start-point and end-point of a Species**



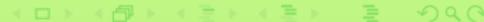
Create and Edit Components

contd.

- Create multiple files in CellDesigner
- Learn about start-point and end-point of a Species
- Change identity of Species and Reaction



Build and Modify Process Diagram



Build and Modify Process Diagram

This will help us to know how to:



Build and Modify Process Diagram

This will help us to know how to:

- **Use Macros**



Build and Modify Process Diagram

This will help us to know how to:

- Use Macros
- **Move all components to another side of the draw area**



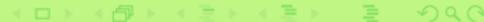
Build and Modify Process Diagram

This will help us to know how to:

- Use Macros
- Move all components to another side of the draw area
- **Align a Reaction line**



Build and Modify Process Diagram



Build and Modify Process Diagram

contd.



Build and Modify Process Diagram

contd.

- **Extend a Reaction line**



Build and Modify Process Diagram

contd.

- **Extend a Reaction line**
- **Build a Process diagram using CellDesigner**



Customizing Diagram Layout



Customizing Diagram Layout

This tutorial explains how to:



Customizing Diagram Layout

This tutorial explains how to:

- **Change color, shape and width of a Reaction line**



Customizing Diagram Layout

This tutorial explains how to:

- Change color, shape and width of a Reaction line
- **Add Anchor points to a Reaction line**



Customizing Diagram Layout

This tutorial explains how to:

- Change color, shape and width of a Reaction line
- Add Anchor points to a Reaction line
- **Align Components**



Customizing Diagram Layout

This tutorial explains how to:

- Change color, shape and width of a Reaction line
- Add Anchor points to a Reaction line
- Align Components
- **Show/hide Reaction ids**



Customizing Diagram Layout



Customizing Diagram Layout

contd.



Customizing Diagram Layout

contd.

- **Add notes to Components**



Customizing Diagram Layout

contd.

- Add notes to Components
- Edit Protein



Customizing Diagram Layout

contd.

- Add notes to Components
- Edit Protein
- **Edit information**



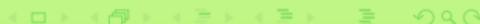
Customizing Diagram Layout

contd.

- Add notes to Components
- Edit Protein
- Edit information
- Get a bird's eye view of the diagram



Summary



Summary

In this tutorial we learnt about the:



Summary

In this tutorial we learnt about the:

- **Overview of the CellDesigner series**



About the Spoken Tutorial Project

- Watch the video available at http://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



Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- 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>

