

# Introduction To KTurtle

**Talk to a Teacher**

**<http://spoken-tutorial.org>**

**National Mission on Education through ICT**

**<http://sakshat.ac.in>**

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**Narration: Madhuri G, IIT Bombay**

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# Learning Objectives



# Learning Objectives

**We will learn about**



# Learning Objectives

**We will learn about**

- ▶ **KTurtle Window**



# Learning Objectives

**We will learn about**

- ▶ **KTurtle Window**
- ▶ **Editor**



# Learning Objectives

**We will learn about**

- ▶ **KTurtle Window**
- ▶ **Editor**
- ▶ **Canvas**



# Learning Objectives

**We will learn about**

- ▶ **KTurtle Window**
- ▶ **Editor**
- ▶ **Canvas**
- ▶ **Menu Bar**



# Learning Objectives

**We will learn about**

- ▶ **KTurtle Window**
- ▶ **Editor**
- ▶ **Canvas**
- ▶ **Menu Bar**
- ▶ **Toolbar**





# Learning Objectives



# Learning Objectives

**We will also learn about**



# Learning Objectives

**We will also learn about**

- **Moving the Turtle**



# Learning Objectives

**We will also learn about**

- ▶ **Moving the Turtle**
- ▶ **Drawing lines and changing directions**



# Learning Objectives

**We will also learn about**

- ▶ **Moving the Turtle**
- ▶ **Drawing lines and changing directions**
- ▶ **Draw a triangle**



# System Requirement



# System Requirement

- **Ubuntu Linux OS v 12.04**



# System Requirement

- ▶ **Ubuntu Linux OS v 12.04**
- ▶ **KTurtle v 0.8.1 beta**





# What is KTurtle?



# What is KTurtle?

- ▶ KTurtle is a **free tool** to learn basic programming



# What is KTurtle?

- ▶ KTurtle is a **free tool** to learn basic programming
- ▶ Useful for **computer aided interactive learning**



# What is KTurtle?

- ▶ KTurtle is a **free tool** to learn basic programming
- ▶ Useful for **computer aided interactive learning**
- ▶ KTurtle is available for download at <http://edu.kde.org/kturtle/>



# Utilities Of KTurtle



# Utilities Of KTurtle

## KTurtle



# Utilities Of KTurtle

## KTurtle

- Makes programming **easy and accessible**



# Utilities Of KTurtle

## KTurtle

- ▶ Makes programming **easy and accessible**
- ▶ Helps teach kids **basics of mathematics**





# Utilities Of KTurtle

## KTurtle

- ▶ Makes programming **easy and accessible**
- ▶ Helps teach kids **basics of mathematics**
- ▶ **Translates commands** to speaking language of the programmer



# Utilities Of KTurtle

## KTurtle

- ▶ Makes programming **easy and accessible**
- ▶ Helps teach kids **basics of mathematics**
- ▶ **Translates commands** to speaking language of the programmer
- ▶ Translates commands into **visuals**



# Install KTurtle



# Install KTurtle

- ▶ Install KTurtle using **Synaptic Package Manager**



# Install KTurtle

- ▶ **Install KTurtle using Synaptic Package Manager**
- ▶ **for more information on Synaptic Package Manager**



# Install KTurtle

- ▶ Install KTurtle using **Synaptic Package Manager**
- ▶ for more information on **Synaptic Package Manager**
- ▶ please refer to **Ubuntu Linux tutorials** on our website  
<http://spoken-tutorial.org>



# Summary



# Summary

**We have learnt about**





# Summary

**We have learnt about**

- ▶ **KTurtle's editor, canvas, menubar and toolbar**



# Summary

**We have learnt about**

- ▶ **KTurtle's editor, canvas, menubar and toolbar**
- ▶ **Move Turtle**



# Summary

We have learnt about

- ▶ K Turtle's **editor, canvas, menubar** and **toolbar**
- ▶ **Move Turtle**
- ▶ **Draw lines and change directions**



# Summary

We have learnt about

- ▶ K Turtle's **editor, canvas, menubar** and **toolbar**
- ▶ Move Turtle
- ▶ Draw **lines and change directions**
- ▶ Draw a **triangle**



# Assignment



# Assignment

**Draw a square using the commands**



# Assignment

**Draw a square using the commands**

- ▶ **forward, backward, turnleft, turnright and repeat**



# Assignment

**Draw a square using the commands**

- ▶ **forward, backward, turnleft, turnright and repeat**
- ▶ **Set background color, penwidth and pencolor**





# Assignment

**Draw a square using the commands**

- ▶ **forward, backward, turnleft, turnright and repeat**
- ▶ **Set background color, penwidth and pencolor**
- ▶ **Change values in the “RGB” combination**



# About the Spoken Tutorial Project

- ▶ Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- ▶ It summarises the Spoken Tutorial project



# About the Spoken Tutorial Project

- ▶ Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](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](mailto: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>**

