# Overview of DSpace

**Spoken Tutorial Project**
**https://spoken-tutorial.org**
**National Mission on Education through ICT**
**http://sakshat.ac.in**

**NVLI Team**
**IIT Bombay**

**February 10, 2021**

# Learning Objectives

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**We will learn about:**

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▶ DSpace **as a** Digital Repository System

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▶ **Notable** DSpace **repositories**

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▶ **Notable** DSpace **repositories**

▶ Dublin Core metadata standard

▶ **The content available in various tutorials in this series**

# Prerequisite

▶ **To work with** `DSpace` **you should have basic knowledge of** `Library Science`

# System Requirement

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▶ **Ubuntu Linux OS 18.04 / Windows 10 64 bit OS**

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- **Ubuntu Linux OS 18.04 / Windows 10 64 bit OS**
- **DSpace version 6.3**
- **gedit text editor (Ubuntu) / Wordpad (Windows)**
- **Firefox web browser**

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**DSpace works on any one of the following Operating Systems**

- ▶ **Ubuntu Linux OS 18.04**
- ▶ **Windows 8 or higher**

# Introduction to DSpace

- ▶ `DSpace` **is free and an open source repository software package**

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- ▶ `DSpace` **is free and an open source repository software package**
- ▶ `DSpace` **is used for creating and managing repositories of digital content**

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- ▶ **Videos and audios**

# Introduction to DSpace

DSpace **preserves and enables easy and open access to all types of digital content like**

- ▶ **Text and images**
- ▶ **Videos and audios**
- ▶ **Data sets, web pages, learning objects, etc**

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- ▶ **Document management systems**

# Features of DSpace

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`DSpace` **offers the following features**

- ▶ **Free and open source software**
- ▶ **Completely customizable to fit user needs**
- ▶ **Structured workflow for document submission**

# Features of DSpace

► Metadata **and full text indexing for search**

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▶ **Granular group based access control**

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▶ `UTF-8` **support**

# Features of DSpace

- ▶ `Metadata` **and full text indexing for search**
- ▶ **Granular group based access control**
- ▶ `UTF-8` **support**
- ▶ **Manage and preserve all format of digital content**

# DSpace Usage

`DSpace` **is used by educational, government, private and commercial institutions like**

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- ▶ **Museums**
- ▶ **State archives, State and National Libraries**
- ▶ **Journal repositories, consortiums**

# Notable DSpace Repositories

▶ The World Bank - **Open Knowledge Repository**

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▶ The World Bank - **Open Knowledge Repository**

▶ WHO **Institutional Repository**

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▶ The World Bank - **Open Knowledge Repository**

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▶ Shodhganga : **A reservoir of Indian Theses**

# Notable DSpace Repositories

- ▶ `The World Bank` - **Open Knowledge Repository**
- ▶ `WHO` **Institutional Repository**
- ▶ `Shodhganga` **: A reservoir of Indian Theses**
- ▶ **Institutional Repositories of** `IITs` **and** `IIMs`

# Dublin Core Metadata Standard

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▶ `Dublin Core Metadata Standard` **is a set of elements for describing resources**

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▶ Dublin Core Metadata Standard **is a set of elements for describing resources**

▶ Dublin Core Metadata standard **can be used to describe digital resources and physical resources**

# Dublin Core Element

▶ Title: **A name given to the resource**

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▶ `Title`: **A name given to the resource**

▶ `Creator`: **An entity primarily responsible for making the resource**

# Dublin Core Element

► Contributor: **An entity responsible for making contributions to the resource**

# Dublin Core Element

- Contributor: **An entity responsible for making contributions to the resource**
- Date: **A point or period of time associated with an event in the lifecycle of the resource**

# Dublin Core Element

▶ Description: **The description of the resource**

# Dublin Core Element

▶ `Description`: **The description of the resource**

▶ `Coverage`: **The geographic location, date/period, administrative entity of the resource**

# Dublin Core Element

▶ Format: **The file format, physical medium, or dimensions of the resource**

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▶ `Format`: **The file format, physical medium, or dimensions of the resource**

▶ `Identifier`: **The unique reference to the resource within a given context**

# Dublin Core Element

▶ Language: **A language of the resource**

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▶ Type: **The nature or genre of the resource**

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▶ Language: **A language of the resource**

▶ Type: **The nature or genre of the resource**

▶ Relation: **A related resource**

# Dublin Core Element

▶ `Rights`: **Information about rights held in and over the resource**

# Dublin Core Element

- ▶ `Rights`: **Information about rights held in and over the resource**
- ▶ `Publisher`: **An entity responsible for making the resource available**

# Dublin Core Element

▶ Source: **A related resource from which the described resource is derived**

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▶ Source: **A related resource from which the described resource is derived**

▶ Subject: **The topic of the resource**

# DSpace Installation on Windows 10

▶ **Install** JDK **and** Build tools **on** Windows 10

▶ **Setting up** Tomcat **and** Postgresql **on** Windows 10

▶ DSpace **Installation on** Windows 10

# DSpace Installation on Windows 10

- **Email Configuration for DSpace on** `Windows 10`
- **Customization of DSpace home page (on** `Windows 10`**)**

# Software versions

▶ **If you can't find the** `same version` **of software used in the demonstration, use any** `other` `stable version`

# Software versions

- **If you can't find the** `same version` **of software used in the demonstration, use any** `other stable version`
- **But, It is mandatory to use ONLY** `JDK 8` **(with any release)**

# DSpace Installation on Ubuntu Linux OS

▶ **Getting ready for** `DSpace` **Installation**

▶ `DSpace` **Installation on** `Ubuntu Linux OS`

▶ **Email configuration for** `DSpace`

▶ **Customization of** `DSpace` **Home Page**

# Summary

**In this tutorial we learnt about:**

- DSpace **as** Digital Repository System
- **Notable** DSpace **repositories**
- Dublin Core metadata standard
- **The content available in various tutorials in this series**

# About the Spoken Tutorial Project

▶ **Watch the video available at**
https://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**

# Answers for THIS Spoken Tutorial

▶ **Questions in THIS Spoken Tutorial?**

▶ **Visit**
`https://forums.spoken-tutorial.org/`

▶ **Choose the minute and second where you have the question**

▶ **Explain your question briefly**

▶ **The Spoken Tutorial project will ensure an answer**

**You will have to register to ask questions**

# Forum for specific questions

- ▶ **The Spoken Tutorial forum is for specific questions on this tutorial**
- ▶ **Please do not post unrelated and general questions on them**
- ▶ **This will help reduce the clutter**
- ▶ **With less clutter, we can use these discussions as instructional material**

# Acknowledgements

▶ **The Spoken Tutorial project is funded by Ministry of Education (MoE), Government of India**

# Acknowledgements

▶ `DSpace` **spoken tutorial series is supported by National Virtual Library of India, Ministry of Culture, Government of India**

▶ **More information on this mission is available at** `www.indianculture.gov.in`