



**Lebanese University**

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Branch II

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PhD in Data Mining - Computer Science

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# Metadata

Data Science - Semester 4



# › Outlines

- › Metadata : Introduction, Definition & Concept
- › Need, Purpose and Functions of Metadata
- › Types of Metadata
- › Metadata Elements & Standards/ Schema
- › Dublin Core : Introduction, Background
- › Level of Standards & Elements



# › Outlines

- › Metadata & SEO
- › Metadata Editor
- › Metadata Extraction
- › Tags



# Introduction

- › Metadata is key to the functionality of the systems holding the content, enabling users to find items of interest, record essential information about them, and share that information with others.
- › The cultural heritage world—libraries, archives, and a long history of creating and sharing robust, structured museums— has metadata.
- › For libraries, this takes the form of the library catalog, Early library catalogs were merely large inventory books, which then were replaced by catalog cards in drawers.
- › With computerization, libraries first moved to dedicated search terminals, and then in the Internet era to today's Web-based resource discovery systems.

# METADATA : Definition & Concept

- › Metadata is Data about data.
- › Metadata is a set of data that describes and gives information about other data.
- › “Metadata is a structured information that describe, explains, locates or otherwise make it easier to retrieve , use and manage an information resource”.
- › Metadata describes how and when and by whom a particular set of data was collected, and how the data is formatted.
- › Metadata is defined as the data providing information about one or more aspects of the data; it is used to summarize basic information about data which can make tracking and working with specific data easier.

# METADATA : Concept

- › Metadata makes it much easier for someone to locate a specific document.
- › For example, **Author**, **Date created** and **date modified** and **file size** are examples of very basic document metadata.
- › An image may include metadata that describes how large the picture is, the color depth, the image resolution, when the image was created, and other data.
- › A text document's metadata may contain information about how long the document is, who the author is, when the document was written, and a short summary of the document.

# METADATA : Concept

- › Web pages often include metadata in the form of meta tags. Description and keywords meta tags are commonly used to describe the Web page's content.
- › Metadata can be created manually, or by automated information processing.
- › Manual creation tends to be more accurate, allowing the user to input any information they feel is relevant or needed to help describe the file.
- › Automated metadata creation can be much more elementary, usually only displaying information such as file size, file extension, when the file was created and who created the file.