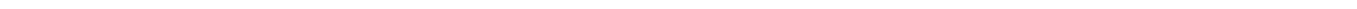




Transforming How Texas  
Government Serves Texas

# Texas Data Literacy Resource Guide

Office of the Chief Data Officer  
Texas Department of Information Resources  
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## Introduction

One of the five focus areas of the Texas Statewide Data Program (TSDP) is guidance, training, and education in data literacy. The Data Literacy Resource Guide is a part of the ongoing data literacy activities of the TSDP. Many resources related to data management, data sharing, open data, and analytics exist in a variety of accessible, on-demand formats. The intent of this guide is to provide a menu of those resources in a format that makes it easier for data users to find learning opportunities for increasing the data skills most relevant to them, whether they be data producers or data consumers, or anyone wishing to become more data literate.

While not exhaustive, this guide serves as a resource for Texas public entities to increase data literacy among their staff and as a supplement to internal training and education available to staff within each organization. The resource guide exists as a living document and will be modified periodically to reflect changes and additions to available learning opportunities.

## Data Management

### Texas Department of Information Resources Data Management Fast Start Learning Guide

**Owner:** Texas Department of Information Resources

**Location:** <https://dir.texas.gov/resource-library-item/dir-texas-data-management-framework-guideaccessible>

**Learning Opportunity Format:** Document

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Architectures, Artificial Intelligence, Business Intelligence, Communication, Data Ethics, Data Governance, Data Management, Data Quality, Data Sharing, Data Warehousing, Document and Content Management, Master Data, Metadata, Machine Learning, Privacy, Records Management and Retention, Reference Data, Roles and Responsibilities, Security

**Description:** DAMA International's Data Management Body of Knowledge (second edition) (DMBOK) is considered the standard that Texas organizations can use to build their individual data programs. The DMBOK extensively describes key principles such as data governance, data architecture, metadata management, reference and master data management, data security, data quality, data ethics, and other elements foundational to a successful data program.

To help organizations understand its core components, the Office of Chief Data Officer within DIR analyzed the DMBOK (second edition) and created the abridged Fast Start Learning Guide (FSL). The intent of the FSL is to capture the critical points of each DMBOK chapter so that they can be easily used by members of the Texas data community, to help develop their plans and communicate the importance of each key principle to the leadership within their organization.

## Texas Department of Information Resources Data Training Series

**Owner:** Texas Department of Information Resources

**Location:**

[https://www.youtube.com/watch?v=cxrxbixxl9Y&list=PL\\_QXqY3YNV7ODiinIAYcsbHrv44GCiXmu](https://www.youtube.com/watch?v=cxrxbixxl9Y&list=PL_QXqY3YNV7ODiinIAYcsbHrv44GCiXmu)

**Learning Opportunity type:** Webinar series

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Architectures, Business Intelligence, Data Ethics, Data Governance, Data Management, Data Quality, Data Warehousing, Document and Content Management, Master Data, Metadata, Open Data, Open/Closed Data Portals, Privacy, Reference Data, Security, Texas Statewide Data Program

**Description:** Ten-part video series describing the Texas Statewide Data Program overview, the Texas Open Data Portal, data governance, data architecture management, data quality management, metadata management, reference and master data, data warehousing and business intelligence, document and content management, and security, privacy, and ethics.

## Data Sharing

### Texas Open Data Portal webinar

**Owner:** Texas Department of Information Resources

**Location:** <https://www.youtube.com/watch?v=4cdOK7Oc5dE>

**Learning Opportunity type:** Webinar series

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislator and Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Data Governance, Data Sharing, Open Data, Open/Closed Data Portals

**Description:** This video from the Office of the Chief Data Officer explores the Texas Open Data Portal and how state agencies and institutions of higher education can leverage open data to provide value to their constituents and organization.

### Texas Closed Data Portal webinar

**Owner:** Texas Department of Information Resources

**Location:** <https://www.youtube.com/watch?v=tRKNh0EaCts>

**Learning Opportunity type:** Webinar series

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislator and Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Data Governance, Data Sharing, Open/Closed Data Portals

**Description:** This video from the Office of the Chief Data Officer explores the Closed Data Portals, which are built on the same platform at the Texas Open Data Portal, and how state agencies and institutions of higher education can leverage this tool in data sharing.

## Texas Data Portals Resource Guide

**Owner:** Texas Department of Information Resources

**Location:** <https://data.texas.gov/dataset/Texas-Data-Portals-Resource-Guide/wxtw-nqep>

**Learning Opportunity type:** Document

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislator and Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Data Ethics, Data Governance, Data Management, Data Quality, Data Sharing, Metadata, Open Data, Open/Closed Data Portals, Roles and Responsibilities, Texas Statewide Data Program

**Description:** This resource guide is intended for current and potential customers of the Open Data Portal or Closed Data Portal. It includes information about open and closed data and using the platforms. The guide also provides links to additional educational opportunities (online articles and educational courses) available through the vendor.

## Texas Data Portals Quick Bytes – Metadata

**Owner:** Texas Department of Information Resources

**Location:** <https://www.youtube.com/watch?v=778ZdZzDiEg>

**Learning Opportunity type:** Webinar series

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislator and Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Metadata, Open/Closed Data Portals

**Description:** Quick Bytes are brief educational videos focusing on a specific topic about using the Texas Open and Closed Data Portals. This video discusses the importance of metadata and how to edit the metadata for data assets on the portals.

## Texas Data Portals Quick Bytes – Data Lens

**Owner:** Texas Department of Information Resources

**Location:** <https://youtu.be/pyRzmr53QFM>

**Learning Opportunity type:** Webinar series

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislator and Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Analytic Tools, Business Intelligence, Data Sharing, Open Data, Open/Closed Data Portals

**Description:** Quick Bytes are brief educational videos focusing on a specific topic about using the Texas Open and Closed Data Portals. This video discusses the data lens asset type and how it can be used to explore a single dataset in depth.

## Texas Data Portals Quick Bytes – Geolocation

**Owner:** Texas Department of Information Resources

**Location:** <https://www.youtube.com/watch?v=XKUqd48Wf1s>

**Learning Opportunity type:** Webinar series

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislator and Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Business Intelligence, Open Data, Open/Closed Data Portals

**Description:** Quick Bytes are brief educational videos focusing on a specific topic about using the Texas Open and Closed Data Portals. This video discusses the benefits of including a geolocation column on datasets and demonstrates the process.

## Texas Data Portals Quick Bytes – Exporting and APIs

**Owner:** Texas Department of Information Resources

**Location:** <https://www.youtube.com/watch?v=rDHkG8loHLs>

**Learning Opportunity type:** Webinar series

**Appropriate Audience:** Business Unit Managers, Business Unit Staff, Data Analysts, Data Management Officers, Data Officers, Data Management Staff, Data Scientists, Data Stewards, IT Staff, Legislator and Legislative Staff, Research Staff and Statisticians, Senior and Executive Leadership

**Data Literacy Topics:** Analytic and Statistical Skills, Analytic Tools, Data Sharing, Open Data, Open/Closed Data Portals, Programming Languages

**Description:** Quick Bytes are brief educational videos focusing on a specific topic about using the Texas Open and Closed Data Portals. This video discusses the limitations of exporting large or complex datasets to spreadsheet software like Microsoft Excel and demonstrates how to use the API to export the data.