

User Manual for CA Water Board's Tribal Water Data Map

CA Water Board's Office of Information Management and Analysis (OIMA)

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Welcome!

This is an online User Manual for the [California Water Board's Tribal Water Data Map](#) (Map), written by the California State Water Resources Control Board's ([State Water Board](#)) Office of Information Management and Analysis ([OIMA](#)).

The purpose of the [Map](#) is to increase awareness of and access to the Water Board's water data resources that intersect with Tribal matters and needs. The interactive Map includes curated data layers that have been requested by tribal partners and that may be useful for California Native American Tribes (tribes) doing environmental or water related work.

The purpose of this User Manual is to provide guidance and context so it's easier for all audiences to use the Map. Content in this User Manual includes curated information that has been requested by tribal partners and/or that the development Team thinks may be helpful to reference when using the map.

This [Quarto book](#) is an open, living, and continuously iterating resource. If you have suggestions for additions or revisions you think should be incorporated into this book, please follow the guidance provided in the [Contributing](#) chapter.

1 About OIMA

1.1 Overview

The California State Water Resources Control Board's ([State Water Board](#)) Office of Information Management and Analysis ([OIMA](#)), serves as an advocate for data management, a bridge between data collectors and users, and provides transparency of the Water Board's information management infrastructure.

OIMA's goal is to collaborate monitoring efforts, accurately analyze data, make our data easily accessible, and create visualizations and reports that make data understandable across all audiences.

1.2 Tribal Water Data Initiatives

OIMA is committed to [advancing equity](#), inclusion, and belonging in our work, our office, and at the Water Boards. Meaningful engagement and partnership with California Native American Tribes (tribes) is fundamental to this work.

OIMA has begun to work with Tribal partners on a series of water data initiatives -- including the [Tribal Water Data Map](#) and this [User Manual](#) -- to build relationships and work together to better understand, streamline, and improve the interactions between Water Board data systems and those of our Tribal government partners.

Visit our [Tribal Water Data Initiatives](#) website for information on other initiatives.

2 Map Guide

2.1 Opening the Web Map

The [link](#) will take you to the main Portal of the map where you will find basic information like:

- **Map viewing options;** if you have ArcGIS Desktop installed on the computer you are working on, you can opt to open the map directly on the App, otherwise just **click on “Open Map Viewer Classic”** to open it.
- A description of the map that highlights the purpose and goals.
- Layer dictionary where you can click on each of the Layers and find out more detailed information, including its source.
- It isn't necessary, but if you have an account with ESRI, you can sign in.

The screenshot shows the 'Tribal Water Data Initiatives Data' web map interface. At the top, there is a navigation bar with links: Home, Gallery, Map, Scene, Groups, Help, and a search icon. A 'Sign In' button is located in the top right corner. Below the navigation bar, the main content area is titled 'Tribal Water Data Initiatives Data'. On the left, there is a map thumbnail titled 'STATE WATER RESOURCES CONTROL BOARD' and a description of the map. A red arrow points to the map thumbnail with the text 'Information about this map'. To the right of the map thumbnail, there is a 'Web Map by BYunesKatz@EPA' and a 'View Count: 628'. A red arrow points to the 'Open in Map Viewer Classic' button with the text 'Map viewing options'. Below the map thumbnail, there is a 'Description' section and a 'Layers' section. A red arrow points to the 'Layers' section with the text 'Layer Dictionary'. On the right side of the interface, there is a 'Details' section with information about the map, including size (31 KB), a star rating (5 stars), and social media icons. Below the 'Details' section, there is a 'Share' section, an 'Owner' section (BYunesKatz@EPA), a 'Tags' section (Water Quality, Tribes, Initiatives), and a 'Credits (Attribution)' section (No acknowledgements).

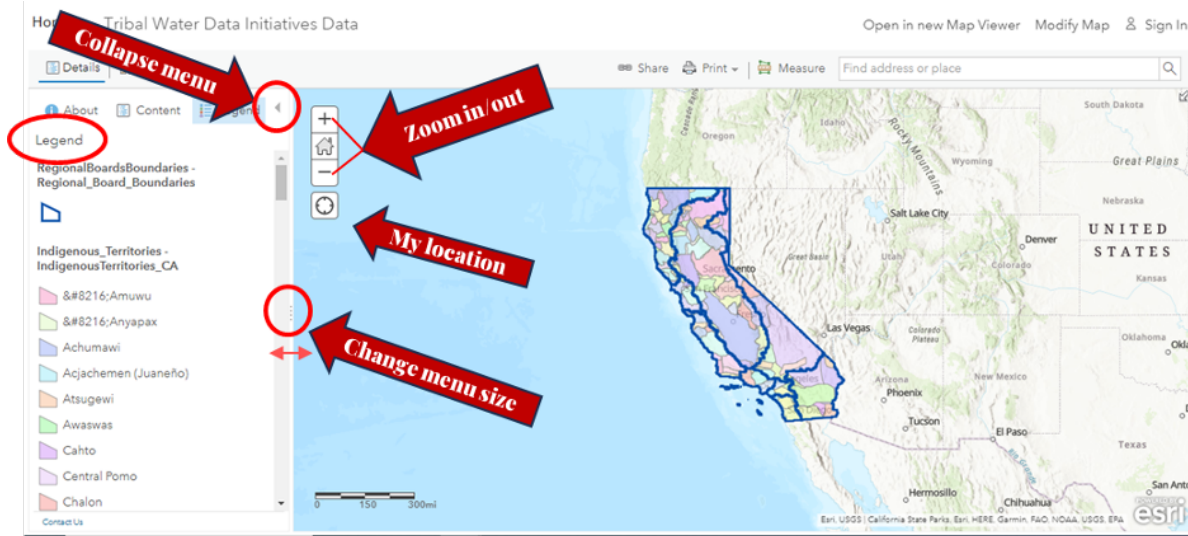
2.2 Navigating the Map

After you have clicked on Open Map Viewer Classic, the web map will open with two default layers being displayed: Regional Board Boundaries and Indigenous Territories

Do the following to navigate the map:

- To zoom, use **Zoom in** and **Zoom out**, the mouse and wheel button, or press Shift + Plus Sign (zoom in) and Shift + Minus Sign (zoom out) on the keyboard. To zoom in, you can also press the Shift key while dragging a box on the map.
- To go back to main view, press the house icon.

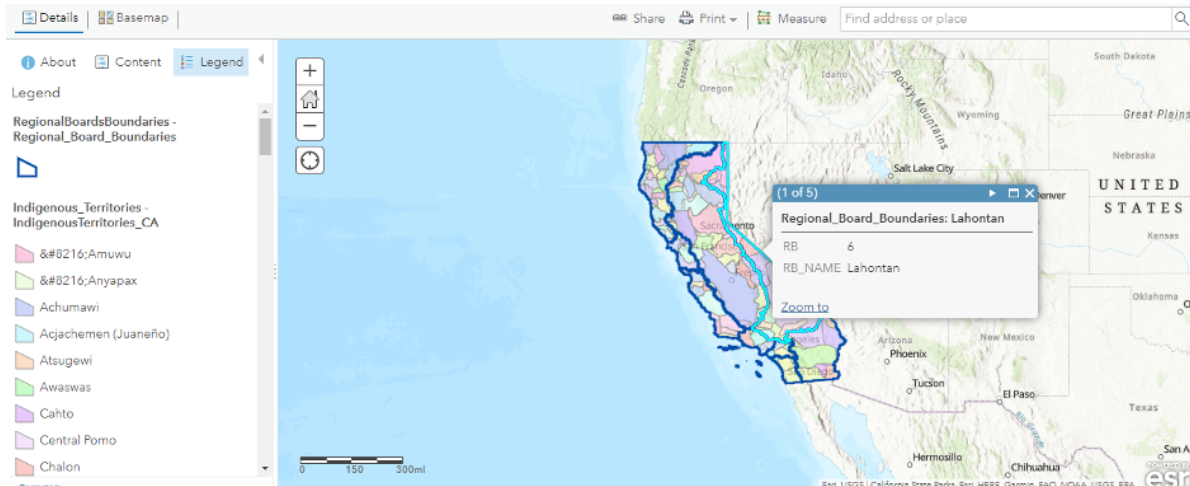
- To pan, use the mouse or the arrow keys on your keyboard.
- If you're using a Mac with OS X 10.6 or later, you can use multitouch gestures by dragging two fingers to pan and zoom the map. The default behavior is to pan. To zoom in or out, press Shift while dragging two fingers toward you to zoom in or dragging two fingers away from you to zoom out.



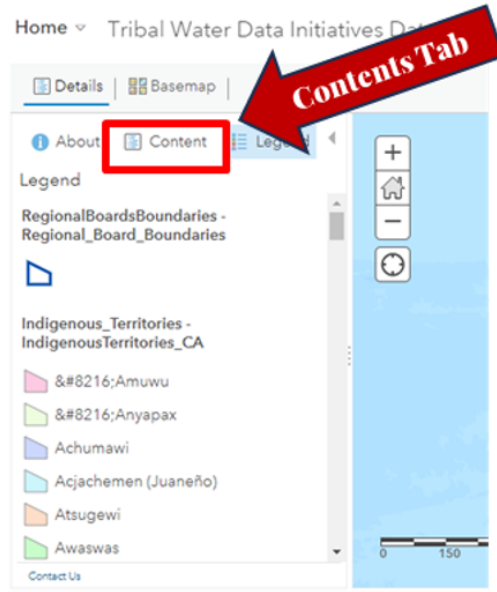
- To collapse the Legend pane by clicking on the arrow on the upper-right corner of the menu.
- To expand the Legend pane, drag the points on the edge of right edge of the menu.

2.3 Navigating Layers

- On the left hand side you will see the legend of the layers, the blue outlines are the Regional Board Boundaries, and the different Indigenous Territories are color coded and defined on that menu.
- You can click on a map area of California to find out what Regional Board, or Indigenous Territory is there. The information will be shown in a pop-up menu.
- On this example, the right border of California was clicked and a pop-up showed that the area belongs to Regional 6 of the Regional Boards

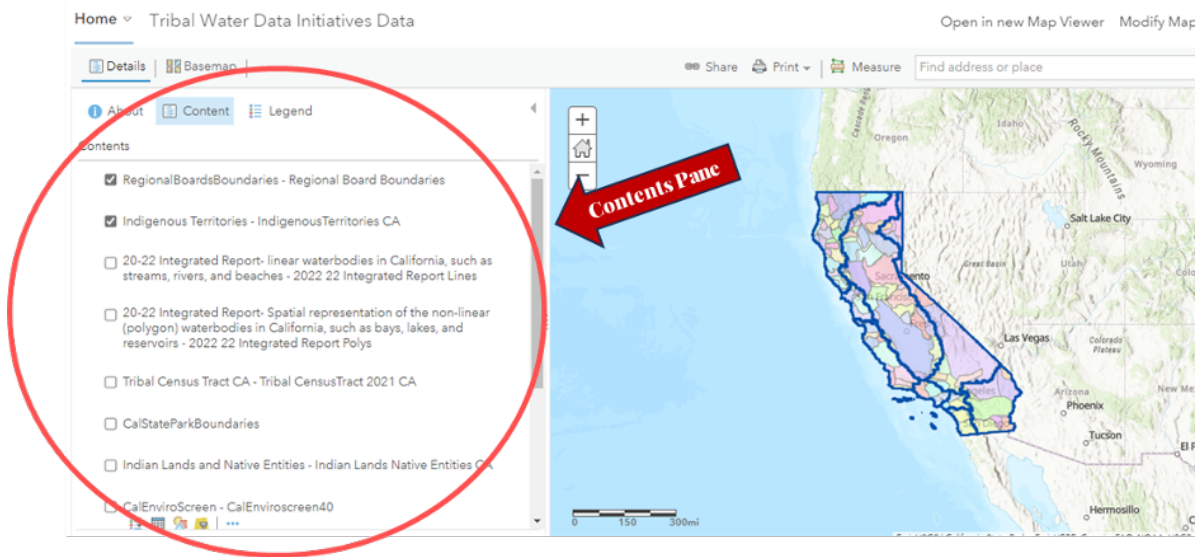


*To see more information, and the rest of the layers, **go to the Content Tab** to see the rest of the Layers.



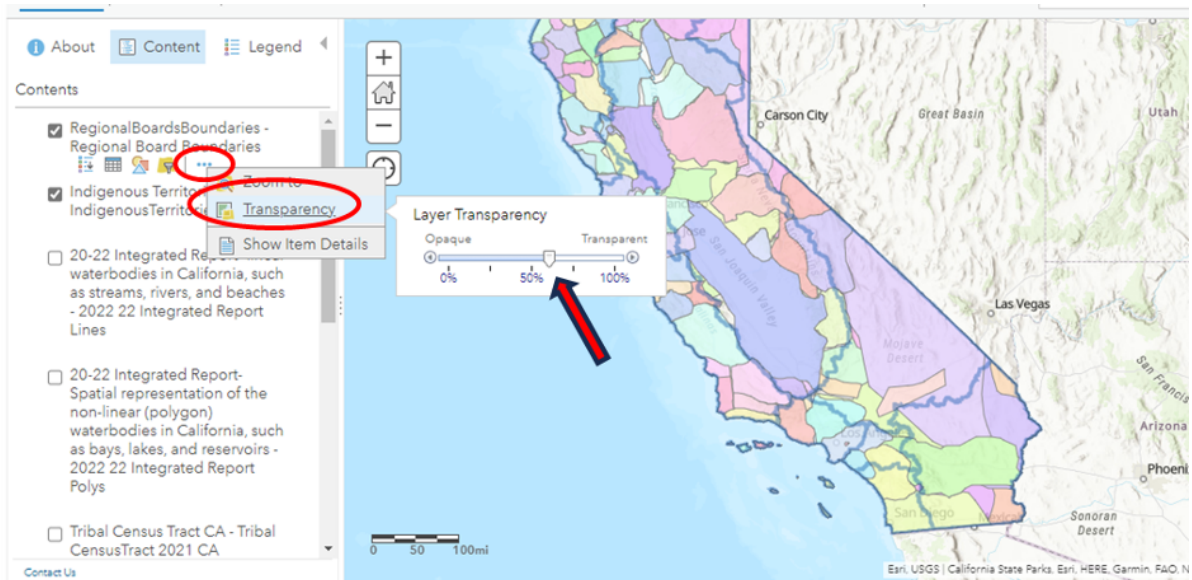
2.4 Displaying/removing View of Layers

- On the Contents Pane menu, all the layers of the map will be listed (but not yet displayed)
- Only Regional Boards Boundaries and Indigenous Territories are displayed, and we can tell by the checked box to the left of the layer name.



2.5 Adjusting Layer Transparency

To change the transparency of the layers, hover over the layer you'd like to change the transparency and click on the three dots on below the layer name, on the right, select Transparency, and slide the button to the desired transparency, the more transparency, the less visible the layer will be.



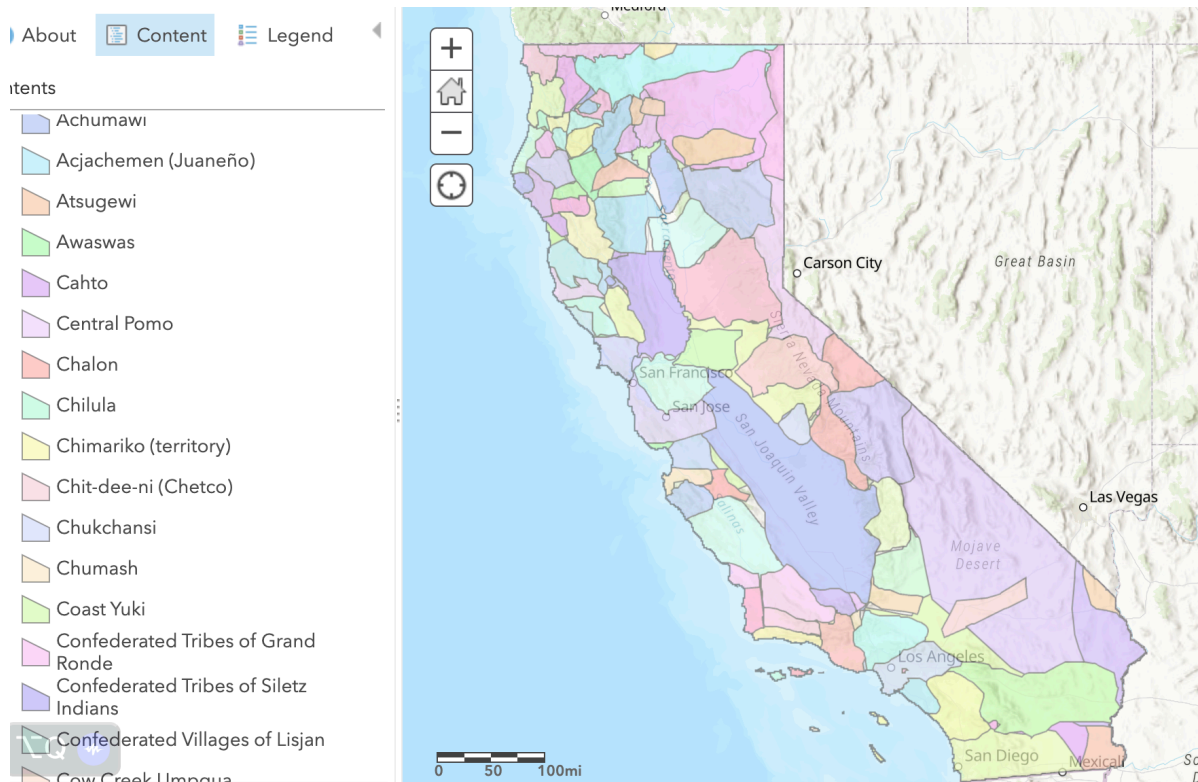
3 Layer Guide

[paragraph introducing what's on the page - pull info from [draft layers doc](#)]

3.1 Tribal Land Layers

3.1.1 Indigenous Territories

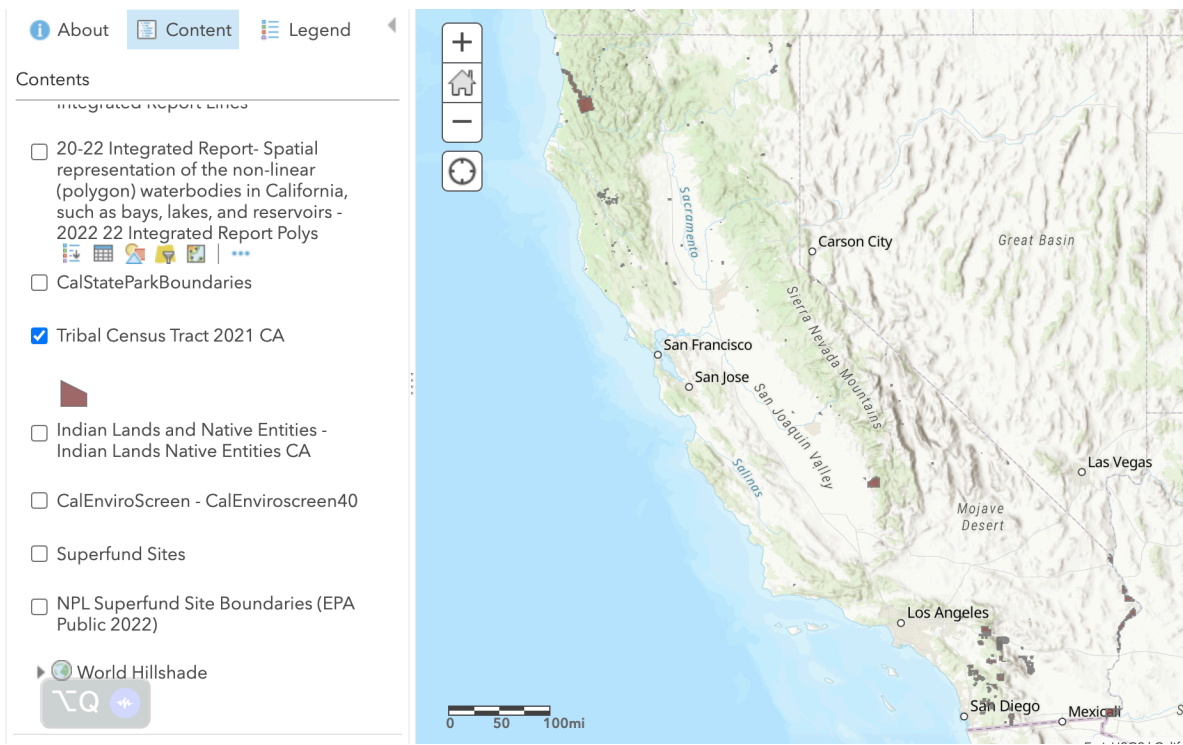
Layer displaying historic Indigenous Territories within California



<https://native-land.ca/>

3.1.2 Tribal Census Tract 2021 CA

This layer shows Tribal areas identified by the [US Census Bureau](#)



US Census Bureau, <https://www.census.gov/cgi-bin/geo/shapefiles/index.php?year=2021&layergroup=America>

3.2 CA Water Boards Layers

3.2.1 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

3.2.2 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

3.3 Environmental Data Layers

3.3.1 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

3.3.2 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

3.4 Environmental Justice Layers

3.4.1 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

3.4.2 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

3.5 Other State or Local Government Layers

3.5.1 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

3.5.2 Layer Name

[Brief description of what the layer shows]

[image of layer]

[Source Name with link to source]

4 Resources

Here you will find a curated list of presentations, webpages and other resources related to the development, implementation and scaling of the Water Board's Tribal Water Data Map.

All Water Boards authors are **bolded** below.

4.1 Websites

[Water Boards' Tribal Water Data Initiatives](#)

4.2 Presentations

[CA Water Boards' Tribal Water Data Resources Update](#). Aug 2023 ([Summer Meeting](#)). **Badhia Yunes Katz, Anna Holder**. California Issues Workgroup - US EPA Region 9 Regional Tribal Operations Committee (RTOC).

[Introduction to CA Water Boards' Tribal Water Data Resources](#). Feb 2023 ([Winter Meeting](#)). **Badhia Yunes Katz, Anna Holder**. California Issues Workgroup - US EPA Region 9 Regional Tribal Operations Committee (RTOC).

5 Meet the Team!

The development of the [Map](#) and this User Manual has been a team effort from the start. Below is a list of team members within OIMA and tribal partners who have been integral to the development of these resources.

If you would like to join the Team, please email Anna Holder at: anna.holder@waterboards.ca.gov.

5.1 OIMA

Name	Title
Anna Holder	Environmental Scientist & OIMA Tribal Coordinator
Josh Davenport	Stanford Fellow
Leah Brosseau	CivicSpark Fellow

5.2 Tribal Partners

Table 5.2: Tribal partners listed in ascending order by Affiliation

Name	Title	Affiliation
Sarah Ryan	Environmental Director	Big Valley Band of Pomo Indians, Environmental Protection Department (Big Valley EPA)
Meyo Marrufo	Environmental Director	Guidiville Rancheria
Shasta Gaughen	Director	Pala Band of Mission Indians, Environmental Department (PED)

We also regularly receive critical feedback from the California Issues Workgroup of the US EPA Region 9 Regional Tribal Operations Committee ([RTOC](#)). See the [Resource Chapter](#) of this User Manual for past presentations.

5.3 Former OIMA Fellows & Interns

Name	Title	Year
Badhia Yunes Katz	CivicSpark Fellow	2023

6 Contributing

6.1 Who can contribute

Currently, only members of the OIMA Team are able to make *edits* to this User Manual and the Map, however we are always looking for feedback!

! We want your feedback!

If you have recommendations for improvement related to the Map or this User Manual you can send it to us by:

- Emailing Anna Holder at: anna.holder@waterboards.ca.gov, OR
- Submitting a [GitHub Issue](#)

6.2 How we contribute

We develop the content for this User Manual using RStudio, build the book using [Quarto](#) (via RStudio), and collaborate and publish using GitHub (also via RStudio).

6.2.1 Setup

To contribute, OIMA Team members must do the following, and it should only take about 20 minutes to complete:

1. **Install R and RStudio**

Both R and RStudio should be available in the Software Center (for Windows 10) or Company Portal (for Windows 11) – if you don't see them in your Software Center/Company Portal or you have issues/questions during the installation process, please send a request to the DIT HelpDesk and they can help you install them.

Also see these [step by step instructions on how to install these programs](#) – you will only need to go through steps 1 and 2

If you are new to R, it would also be helpful if you could review the [Getting Started Module](#) so you can begin to familiarize yourself with the fundamentals of the program.

2. **Install Quarto**

[Quarto download and install instructions](#)

3. **Create a GitHub Account**

[Create your free personal account GitHub account](#)

[Tips on choosing your username](#)

4. **Download and Install Git**

Follow your operating system's normal [Git installation process](#). Note: you will not see an application called Git listed but if the installation process completed it was likely successful, and we will confirm together.