ArcGIS Experience Builder Developer Edition 1.12 Complete Tutorial – Part 1

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Overview

ArcGIS Experience Builder is the next generation Web Mapping Platform from ESRI.

It is the successor to the Web AppBuilder for ArcGIS.

The Experience Builder allows anyone to design mobile friendly multi-page websites with dynamic maps, charts, lists, tables, and images that update automatically as you interact with the elements *without having to write a single line of code*!

It presents a true drag & drop interface using a collection of Themes and Widgets that allows seamless integration between 2D and 3D maps.

The Experience Builder uses JavaScript API 4.x and integrates several Web Mapping Applications like Survey 123 and StoryMaps.

The Developer Edition allows you to add Custom Widgets.

This Tutorial explains how to transition from WAB to EXB using the Historical Aerials Web App as a Case Study.

You will be using **EXB Developer Edition 1.12** with Node.js 14.21.3. The Developer Edition is necessary to add Custom Widgets for Google Maps and Pictometry.

If you have no need to add Custom Widgets, you can go through this tutorial using the ArcGIS Online Edition of the Experience Builder starting at page 66. The interface is identical.

This is the **Web AppBuilder** version of the Historical Aerials Web App.

https://gis.maricopa.gov/GIO/HistoricalAerial/



This was built using WAB Developer Edition 2.27

The WAB Developer version uses the following widgets:

- Zoom In
- Zoom Out
- Home
- Location
- Full Screen
- Previous Extent
- Next Extent
- Graphical Scale Bar
- Coordinate Widget
- Attribute Table Widget
- Search Tool
- Enhanced Basemap Gallery Widget (Custom Widget by Robert Scheitlin)
- Enhanced Search Widget (Custom Widget by Robert Scheitlin)
- Legend Widget
- Layer List Widget
- Popup Panel Widget (Custom Widget by Robert Scheitlin)
- Measurement Widget
- Draw Widget
- Enhanced Bookmark Widget (Custom Widget by Robert Scheitlin)
- Print Widget
- Swipe Widget
- Enhanced Locate Widget (Custom Widget by Robert Scheitlin)
- Google Street View Widget (Custom Widget by Robert Scheitlin)
- Google Earth Widget (Custom Widget by Kevin MacLeod)
- Pictometry Widget (Custom Widget by Kevin MacLeod)
- Share Widget
- Add Data Widget
- About Widget

This is the **Experience Builder** version of the Historical Aerials Web App.

https://daviddas2.github.io/HistoricalAerials/

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This was built using EXB Developer Edition 1.12 (July, 2023).

The EXB Developer version uses the following widgets:

- Zoom In
- Zoom Out
- Home
- Location
- Graphical Scale Bar
- Coordinate Widget
- Search Tool
- Measure Tool
- Map Widget
- Map Layers Widget
- Attribute Table Widget
- Query Widget
- Legend Widget
- Swipe Widget
- Basemap Gallary Widget
- Draw Widget
- Bookmark Widget
- Near Me Widget
- Coordinate Conversion Widget
- Google Maps Widget (Custom Widget by Frederic Poliart, ESRI Australia)
- Pictometry Widget (Custom Widget by Frederic Poliart, ESRI Australia)
- Print Widget

This tutorial will walk you through all the steps showing you how to recreate this EXB app.

No programming is necessary. The two Custom Widgets have been preconfigured for you.

Let's begin!

Publish your Map Services

The very first step to creating a Web Application is to curate your data, create a Geodatabase and publish your Map Services which will then be consumed by your Web Map on ArcGIS Online or Portal.

If you want to make your Web Application open to the public, make sure your Map Services and Web Map are shared with everyone.

The Historical Aerials Web Application uses the following public Map Services:

Aerial Cache Tile Footprints https://gis.maricopa.gov/imagery/rest/services/AerialCacheTileFootprint/MapServer

Aerial Photography Not Available https://gis.maricopa.gov/imagery/rest/services/AerialPhotographyNotAvailable/MapServer

1930 Jan - 1930 Jan

https://gis.maricopa.gov/imagery/rest/services/Aerial1930Jan1930JanMosaic/MapServer

1930 Jan - 1930 Jan Oblique https://gis.maricopa.gov/imagery/rest/services/Aerial1930Jan1930JanOblique/MapServer

1937 Jan - 1937 Dec

https://gis.maricopa.gov/imagery/rest/services/Aerial1937Jan1937DecMosaic/MapServer

1949 Feb - 1949 Apr

https://gis.maricopa.gov/imagery/rest/services/Aerial1949Feb1949AprMosaic/MapServer

1951 Apr - 1951 Apr

https://gis.maricopa.gov/imagery/rest/services/Aerial1951Apr1951AprMosaic/MapServer

1953 Mar - 1953 May

https://gis.maricopa.gov/imagery/rest/services/Aerial1953Mar1953MayMosaic/MapServer

1959 Feb - 1959 Feb

https://gis.maricopa.gov/imagery/rest/services/Aerial1959Feb1959FebMosaic/MapServer

1961 Jan - 1962 Dec

https://gis.maricopa.gov/imagery/rest/services/Aerial1961Jan1962DecMosaic/MapServer

1964 Jan - 1964 Dec

https://gis.maricopa.gov/imagery/rest/services/Aerial1964Jan1964DecMosaic/MapServer

1969 Jan - 1969 Mar

https://gis.maricopa.gov/imagery/rest/services/Aerial1969Jan1969MarMosaic/MapServer

1976 Feb - 1976 Apr

https://gis.maricopa.gov/imagery/rest/services/Aerial1976Feb1976AprMosaic/MapServer

1979 Dec - 1979 Dec <u>https://gis.maricopa.gov/imagery/rest/services/Aerial1979Dec1979DecMosaic/MapServer</u>

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1986 Jan - 1986 Dec https://gis.maricopa.gov/imagery/rest/services/Aerial1986Jan1986DecMosaic/MapServer

1990 Oct - 1990 Oct https://gis.maricopa.gov/imagery/rest/services/Aerial1990Oct1990OctMosaic/MapServer

1991 Jun - 1991 Dec https://gis.maricopa.gov/imagery/rest/services/Aerial1991Jun1991DecMosaic/MapServer

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2007 Jun - 2007 Jul Statewide https://gis.maricopa.gov/imagery/rest/services/Aerial2007Jun2007JulOrtho/MapServer

2007 Oct - 2008 Jan

https://gis.maricopa.gov/imagery/rest/services/Aerial2007Oct2008JanOrtho/MapServer

2008 Oct - 2008 Dec https://gis.maricopa.gov/imagery/rest/services/Aerial2008Oct2008DecOrtho/MapServer

2009 May - 2009 Jun

https://gis.maricopa.gov/imagery/rest/services/Aerial2009May2009JunOrtho/MapServer

2009 Oct - 2009 Nov

https://gis.maricopa.gov/imagery/rest/services/Aerial2009Oct2009NovOrtho/MapServer

2010 Jun - 2010 Sep Statewide

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2014 Sep - 2014 Nov https://gis.maricopa.gov/imagery/rest/services/Aerial2014Sep2014NovOrtho/MapServer

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2019 Sep - 2019 Dec https://gis.maricopa.gov/imagery/rest/services/Aerial2019Sep2019DecOrtho/MapServer

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2021 Sep - 2021 Nov https://gis.maricopa.gov/imagery/rest/services/Aerial2021Sep2021NovOrtho/MapServer

2022 Sep - 2022 Oct

https://gis.maricopa.gov/imagery/rest/services/Aerial2022Sep2022OctOrtho/MapServer

Street

https://gis.maricopa.gov/arcgis/rest/services/IndividualService/Street/MapServer

Township Range Section

https://gis.maricopa.gov/arcgis/rest/services/IndividualService/TownshipRangeSection/MapServer

City

https://gis.maricopa.gov/arcgis/rest/services/IndividualService/City/MapServer

Zip Code https://gis.maricopa.gov/arcgis/rest/services/IndividualService/ZipCode/MapServer

Parcel (Current) https://gis.maricopa.gov/arcgis/rest/services/IndividualService/Parcel/MapServer

Terrain (NAVD88) https://gis.maricopa.gov/arcgis/rest/services/GIO/Countywide10FootContour/MapServer

County

https://gis.maricopa.gov/arcgis/rest/services/IndividualService/County/MapServer

Basemap Layers Streets World_Street_Map_8421 <u>https://services.arcgisonline.com/ArcGIS/rest/services/World_Street_Map/MapServer</u>

Note: It can take weeks, months, years to curate your data, generate the cached tiles and publish your map services. This is a laborious process. There is no shortcut.

Creating the Web Map and the subsequent Web App using the Experience Builder is the fun and easy part which can be done in a matter of hours.

Examine the Parcel Map Service

Open the URL for the Parcel Map Service:

https://gis.maricopa.gov/arcgis/rest/services/IndividualService/Parcel/MapServer

You will get this error message:



Error: The administrator has disabled the Services Directory. **Code:** 403

This is because directory browsing has been disabled on the ArcGIS Servers.

The workaround is to add the **/?f=pjson** qualifier.

To read the **description** of the map service use:

https://gis.maricopa.gov/arcgis/rest/services/IndividualService/Parcel/MapServer/?f=pjson

C A gis.maricopa.gov/arcqis/rest/services/IndividualService/Parcel/MapServer/?f=pjson Ġ Google 💽 OKTA 🍘 AGOL 🔙 GIS Portal 🔙 New Portal 🚳 MCDOT Portal 🍘 ArcGIS Assistant 🎬 GISDevWe "currentVersion": 10.91, "cimVersion": "2.9.0", "serviceDescription": "<DIV STYLE=\"text-align:Left;\"><DIV><DIV><P>In real estate, a lot or plo lot is essentially considered a parcel of real property. Possible owner(s) of a lot can be one or more government, or trust. Like most other types of real estate, lots owned by private parties are subject t a county or municipality. These real estate taxes are based on the assessed value of the real property; Other fees by government are possible for improvements such as curbs and sidewalks or an impact fee for land on which is located a dwelling house, occupied or unoccupied. There will be multiple parcels on to <\/SPAN><\/P><P>Subdivision is the act of dividing land into pieces that are easier to sell or ot

To view the **items** in the map service use:

https://gis.maricopa.gov/arcgis/rest/services/IndividualService/Parcel/MapServer/1/query?wher e=OBJECTID=0&outFields=*&f=pjson

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{
 "displayFieldName": "APN",
 "fieldAliases": {
  "OBJECTID": "OBJECTID",
  "APN": "APN",
  "APNDash": "APNDash",
  "APNDashSplit": "APNDashSplit",
  "Book": "Book",
  "Map": "Map",
  "Item": "Item",
  "PropertyFullStreetAddress": "PropertyFullStreetAddress",
  "PropertyStreetNumber": "PropertyStreetNumber",
  "PropertyStreetPrefixDirection": "PropertyStreetPrefixDirection",
  "PropertyStreetName": "PropertyStreetName",
  "PropertyStreetType": "PropertyStreetType",
"PropertyStreetSuffix": "PropertyStreetSuffix",
  "PropertyStreetPostDirection": "PropertyStreetPostDirection",
  "PropertySuite": "PropertySuite",
"PropertyCity": "PropertyCity",
  "PropertyZipCode": "PropertyZipCode",
  "OwnerName": "OwnerName",
  "OwnerAddressLine1": "OwnerAddressLine1",
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  "OwnerCity": "OwnerCity",
"OwnerState": "OwnerState"
  "OwnerZipCode": "OwnerZipCode",
  "OwnerCountry": "OwnerCountry",
"CityZoningCode": "CityZoningCode",
  "CityZoningDescription": "CityZoningDescription",
  "MCRNumber": "MCRNumber",
```

The Parcel Map Service has over 1.7 million records with 99 attributes including hyperlinks to the Maricopa County Assessor, Treasurer and Recorder web pages.

Create a Web Map

After you have decided what Map Services you are going to use, the next step is to create a Web Map.

Note: The New Map Viewer on ArcGIS Online allows several enhancements like the option to group layers. This feature was not available in the Classic Map Viewer.

The Web AppBuilder does not recognize these new features. You are limited to using the Classic Map Viewer.

On the other hand, the Experience Builder takes advantage of all the new features introduced in the New Map Viewer. You will be using the New Map Viewer to group the layers.

Login to ArcGIS Online for your Organization.

Example:

https://maricopa.maps.arcgis.com/home/index.html



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| ArcGIS login | |
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| Sign In | |
| Forgot username? or Forgot password? | |
| | <u>Privacy</u> |

Open the **Map** Tab

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| | Subscription ID 7074579360 | | | Total remaining credits 442,718.97 | Last 7 d | .81 | La: 4 | st 24 hou 5.39 | urs 7 |
| | Feature Data Store | | | · | | | | | |

You are ready to create a Web Map in the New Map Viewer.

https://maricopa.maps.arcgis.com/apps/mapviewer/index.html



To save time, the Web Map has already been created for you.

https://maps.arcgis.com/apps/mapviewer/index.html?webmap=9db8a92251964f0f8790118e9af 156fe

| Historical Aerials EXB × + | | ∨ - □ | × |
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Name of Web Map = Historical Aerials EXB

Notice how the layers have been grouped to make the Layer List more compact.



| Notebook | Groups | Content | Organization | | Q | <u></u> | | | /ID DAS _DasT |
|---------------------------|------------------|-------------|--------------|--------------|-------------|---------|--------|-----------|-------------------------|
| | My Conte | ent My | y Favorites | My Groups | My | Organi | zation | Livin | g Atlas |
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Make sure your Web Map is being shared with everyone.

This will allow others outside of your organization to access your Web Map, make a copy and modify it to suit their needs and build a new Web Application.

| | | C |)btain a (| lient | ID | | |
|------------------|--|------------------------|-------------------|-----------|--|---|-------------------|
| Open Cont | ent My Conten | t Add a N | ew ltem | | | | |
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| [0] | Feature layer Create an editable layer wi template or feature layer. | th fields copied fro | im a | | URL Link to an ArcGIS WFS, OGC WMS | Server web service, H , OGC WMTS, or Geo | KML, OGC JSON. |
| P | Developer credentials Create OAuth 2.0 credentia applications. | als to build custom | | | Application Link to an applica registered applic | ation on the web or cr ation. | reate a new |
| B | Tile layer Create a fast drawing vector layer. | or tile layer or raste | r tile | ā | Scene layer Create a fast drav | wing scene layer using | g 3d content. |

Add your first redirect URL = <u>http://localhost:3001</u>

New item

OAuth 2.0 can be used to authenticate ArcGIS users to access content and location-based services on behalf of the authenticated user. Learn more in the <u>security and authentication guide.</u>

Redirect URLs

Add allowed URLs to a web page or server endpoint to redirect users to after completing authentication.

| http://localhost:3001 | | |
|-----------------------|--|--|
| + Add | | |

Click on Add

Add your second redirect URL = <u>https://localhost:3001</u>

New item

OAuth 2.0 can be used to authenticate ArcGIS users to access content and location-based services on behalf of the authenticated user. Learn more in the <u>security and authentication guide.</u>

Redirect URLs

Add allowed URLs to a web page or server endpoint to redirect users to after completing authentication.

| http://localhost:3001 |) Ū |
|------------------------|------------|
| https://localhost:3001 | Ū |
| + Add | |

Select Application Environment = Multiple

URL = <u>https://localhost:3001</u>

Application environment

The application environment will affect when the item appears in filtered search results.

| • Multiple | O Browser |
|------------|-----------|
| O Native | ⊖ Server |

URL

https://localhost:3001

Back

Cancel Next

Next

Title = **EXB Client ID** Tags = EXB Summary = EXB Client ID

| New item | 2 | × |
|--------------------------|-----|---|
| Title | | |
| EXB Client ID | | |
| Folder | | |
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| EXB × Add tags | × × | |
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| Characters left: 2035 | | |
| | | |
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Back

Cancel Save

Save

Make a note of your Client ID and Client Secret.



Client ID = qx2Eu4b0uyJb224A

Client Secret = 800b2640128b4787ae2c24c07ca8f418

Note: These values will not work. They were created just for this demo. You would need to obtain your own Client ID to proceed with this Tutorial.

::: Groups Organization Q ്ര Notebook Content My Content My Favorites My Groups My Organization Living Atlas Q Search Historical Aerials EXB Date Modified ł†‡ Table 1 - 3 of 3 in Historical Aerials EXB Not shared \square Title Modified • ô EXB Client ID P Application Sep 4, 2023 ☆ … Historical Aerials EXB 0 \square 1 Web Map Sep 4, 2023 \$...

Do not share your Client ID.

Install Microsoft Visual Studio Code

Although you can use Notepad++ to make some quick edits, it is much more elegant to use Microsoft Visual Studio Code as your editor.

https://code.visualstudio.com/

| 刘 Visual Studio Code Docs Upd | tes Blog API Extensions FAQ Learn の ア 🚽 Downl | loac |
|--|--|------|
| Version 1.81 is no | w available! Read about the new features and fixes from July. | |
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| By using VS Code, you agree to its license and privacy statement. | Vertex strill Void configs for VS Code Vise configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void configs for VS Code Void Code Void configs for VS Code Void Code | |

Download Visual Studio Code for Windows (64-bit):

| × | VSCodeUserSetup-x64-1.81.1.exe | 9/1/2023 2:56 PM | Application | 91.164 KB |
|---|--------------------------------|-----------------------|-------------|-----------|
| - | vocoucoscioccup xov nonnexe | 5/ 1/ 2025 2:50 1 141 | Application | 21,104100 |

Install Folder = C:\Users\David.das\AppData\Local\Programs\Microsoft VS Code

| 🗙 Setup - Microsoft Visual Studio Code (User) | _ | | × |
|--|------|-------|------|
| Select Destination Location Where should Visual Studio Code be installed? | | | × |
| Setup will install Visual Studio Code into the following folder. | | | |
| To continue, click Next. If you would like to select a different folder, click Browse. | | | |
| C:\Users\David.das\AppData\Local\Programs\Microsoft VS Code | Br | rowse | |
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| At least 344.5 MB of free disk space is required. | | | |
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| 🗙 Setup - Microsoft Visual Studio Code (User) | _ | | × |
|--|-----------|--------|-------|
| Select Additional Tasks Which additional tasks should be performed? | | | × |
| Select the additional tasks you would like Setup to perform while installing Visual Studio Next. | Code, the | n dick | |
| Additional icons: | | | |
| ✓ Create a desktop icon | | | |
| Other: | | | |
| Add "Open with Code" action to Windows Explorer file context menu | | | |
| Add "Open with Code" action to Windows Explorer directory context menu | | | |
| Register Code as an editor for supported file types | | | |
| Add to PATH (requires shell restart) | | | |
| | | | |
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| < Back Ne | ext > | Ca | ancel |

| 🔀 Setup - Microsoft Visual Studio Code (User) | _ | | × |
|---|----------|-------|------|
| Ready to Install Setup is now ready to begin installing Visual Studio Code on your computer. | | | × |
| Click Install to continue with the installation, or click Back if you want to review or change | any sett | ings. | |
| Destination location: C:\Users\David.das\AppData\Local\Programs\Microsoft VS Code | | | 6 |
| Start Menu folder: Visual Studio Code | | | |
| Additional tasks: Additional icons: Create a desktop icon Other: Add "Open with Code" action to Windows Explorer file context menu Add "Open with Code" action to Windows Explorer directory context menu Register Code as an editor for supported file types Add to PATH (requires shell restart) | | > | |
| < Back Ins | tall | Car | ncel |





Install the Python and Jupyter Extensions.



The default Theme is **Dark Modern**.

File | Preferences | Theme | Color Theme

| Select Color Theme (Up/Down Keys to Preview) | |
|--|--------------|
| + Browse Additional Color Themes | |
| Light (Visual Studio) | light themes |
| Light Modern | |
| Light+ | |
| Quiet Light | |
| Solarized Light | |
| Abyss | dark themes |
| Dark (Visual Studio) | |
| Dark Modern | \$ |
| Dark+ | |
| Kimbie Dark | |
| Monokai | |
| Monokai Dimmed | |
| Red | |
| Solarized Dark | |
| Tomorrow Night Blue | |

Change this to Light (Visual Studio)

| ſ | | |
|---|--|----------------|
| | Select Color Theme (Up/Down Keys to Preview) | |
| 1 | + Browse Additional Color Themes | |
| 1 | Light (Visual Studio) | light themes 🐯 |
| | Light Modern | |
| | Light+ | |
| | Quiet Light | |
| | Solarized Light | |
| | Abyss | dark themes |
| | Dark (Visual Studio) | |
| | Dark Modern | |
| | Dark+ | |
| | Kimbie Dark | |
| | Monokai | |
| | Monokai Dimmed | |
| | Red | |
| | | |

Download Experience Builder Developer Edition 1.12

https://developers.arcgis.com/experience-builder/

Download the SDK

EXB Dev Version 1.12, July 2023



ArcGIS Experience Builder

Latest release

v1.12 - July 6, 2023

| Type Download | Size 32.5 MB | SHA256 checksum 4a43d4d7dc04ed53d4f41fc46 | 9df9d78b3de3 🖺 | <u>ال</u> | | 1.12.zip |
|--------------------|------------------|--|-----------------|-----------|--------------------------|-----------|
| Type Node cache | Size 256 MB | SHA256 checksum bd3a3180cd37cecaf53ec50 | 8af332ff52c7… 🖻 | يني. | | ache.zip |
| Type Documentat | Size ion 19.5 | SHA256 checksum IB 0d9cdc90b6e7a235100e | 232dc29662ba | 1 | | 1.12.zip |
| arcgis-exper | rience-builder | -1.12.zip 7/13/2023 | 2:44 PM | Com | npressed (zipped) Folder | 33,343 KB |

Unzip this file.

You will get a folder named ArcGISExperienceBuilder-1.12

| arcgis-experience-builder-1.12 9/4/2023 4:52 PM File folder |
|---|
|---|

Open this folder.

 $\label{eq:c:Users} C: \label{eq:c:Users} C$

You will find another folder named ArcGISExperienceBuilder.

| ArcGISExperienceBuilder | 9/4/2023 5:05 PM | File folder | |
|-------------------------|------------------|-------------|--|
|-------------------------|------------------|-------------|--|

Open the ArcGISExperienceBuilder folder:

C:\Users\David.das\Downloads\arcgis-experience-builder-1.12\ArcGISExperienceBuilder

All the necessary files are within this folder.

| client | 9/4/2023 5:05 PM | File folder | |
|-----------------------|------------------|---------------|-------|
| server | 9/4/2023 5:05 PM | File folder | |
| 3rd-party-license.txt | 9/4/2023 4:52 PM | Text Document | 68 KB |
| readme.txt | 9/4/2023 4:52 PM | Text Document | 1 KB |
| 🥁 version.json | 9/4/2023 4:52 PM | JSON File | 1 KB |

Rename the ArcGISExperienceBuilder folder to something short like EXB15

C:\Users\David.das\Downloads\arcgis-experience-builder-1.12\

| EXB15 9/4/2023 5:05 PM File folder | EXB15 | 9/4/2023 5:05 PM | File folder | |
|------------------------------------|-------|------------------|-------------|--|

Move the **EXB15** folder to C:\DAVID\EXB

| EXB2 | 2/13/2022 8:44 PM | File folder |
|-------------------------|--------------------|-------------|
| EXB3 | 7/26/2022 2:36 PM | File folder |
| EXB4 | 3/15/2023 11:27 AM | File folder |
| EXB5 | 5/1/2023 10:18 AM | File folder |
| EXB6 | 5/11/2023 11:54 AM | File folder |
| EXB7 | 5/23/2023 10:02 AM | File folder |
| EXB8 | 5/26/2023 9:59 AM | File folder |
| EXB9 | 6/1/2023 12:59 PM | File folder |
| EXB10 | 6/2/2023 8:39 AM | File folder |
| EXB11 | 6/15/2023 11:24 AM | File folder |
| EXB12 | 6/21/2023 10:48 AM | File folder |
| EXB13 | 7/13/2023 2:57 PM | File folder |
| EXB14 | 7/18/2023 3:52 PM | File folder |
| EXB15 | 9/4/2023 5:34 PM | File folder |
| Experience Builder Docs | 7/20/2023 11:17 AM | File folder |

It will be much easier to manage your EXB projects if you keep your pathnames as short as possible.

Long pathnames may create issues.

Open the EXB15 folder and examine the contents.

C:\DAVID\EXB\<mark>EXB15</mark>\

| 📊 client | 9/4/2023 5:34 PM | File folder | |
|-----------------------|------------------|---------------|-------|
| server | 9/4/2023 5:34 PM | File folder | |
| 3rd-party-license.txt | 9/4/2023 4:52 PM | Text Document | 68 KB |
| readme.txt | 9/4/2023 4:52 PM | Text Document | 1 KB |
| 📔 version.json | 9/4/2023 4:52 PM | JSON File | 1 KB |

Right Click on version.json and Open with Code

| version.json 9/4/2023 4:52 PM JSON File | 1 KB |
|---|------|
| Open | |
| Edit with Notepad++ | |
| X Open with Code | |
| 🛰 CrowdStrike Falcon malware scan 💦 🔪 | |
| 🖻 Share | |
| Open with > | |
| Restore previous versions | |
| Send to > | |
| Cut | |
| Сору | |
| Create shortcut | |
| Delete | |
| Rename | |
| Properties | |
Check the EXB Version.

It should read 1.12.0



Open the Client Folder.

C:\DAVID\EXB\EXB15\client

| mocks | 9/4/2023 5:34 PM | File folder | |
|------------------------------|------------------|-------------------|----------|
| dist dist | 9/4/2023 5:32 PM | File folder | |
| 📙 jimu-arcgis | 9/4/2023 5:33 PM | File folder | |
| 📙 jimu-core | 9/4/2023 5:33 PM | File folder | |
| 📙 jimu-for-builder | 9/4/2023 5:34 PM | File folder | |
| 📊 jimu-for-test | 9/4/2023 5:34 PM | File folder | |
| 📙 jimu-icons | 9/4/2023 5:34 PM | File folder | |
| 📙 jimu-layouts | 9/4/2023 5:34 PM | File folder | |
| 📙 jimu-theme | 9/4/2023 5:34 PM | File folder | |
| 📙 jimu-ui | 9/4/2023 5:34 PM | File folder | |
| scripts | 9/4/2023 5:34 PM | File folder | |
| types | 9/4/2023 5:34 PM | File folder | |
| webpack | 9/4/2023 5:34 PM | File folder | |
| your-extensions | 9/4/2023 5:34 PM | File folder | |
| .eslintignore | 9/4/2023 4:52 PM | ESLINTIGNORE File | 1 KB |
| .eslintrc.js | 9/4/2023 4:52 PM | JavaScript Source | 4 KB |
| jest.config.js | 9/4/2023 4:52 PM | JavaScript Source | 4 KB |
| jest-systemjs-transformer.js | 9/4/2023 4:52 PM | JavaScript Source | 2 KB |
| 🥁 lerna.json | 9/4/2023 4:52 PM | JSON File | 1 KB |
| 📔 package.json | 9/4/2023 4:52 PM | JSON File | 6 KB |
| 🥁 package-lock.json | 9/4/2023 4:52 PM | JSON File | 2,030 KB |
| 🥁 tsconfig.json | 9/4/2023 4:52 PM | JSON File | 1 KB |
| webpack.config.js | 9/4/2023 4:52 PM | JavaScript Source | 1 KB |
| | | | |

All your Custom Widgets and Themes will go under the **your-extensions** folder.

Open the **your-extensions** folder.

C:\DAVID\EXB\EXB15\client\your-extensions\

| themes | 9/4/2023 5:34 PM | File folder | |
|-----------------|------------------|-------------|------|
| 📙 widgets | 9/4/2023 5:34 PM | File folder | |
| 📓 manifest.json | 9/4/2023 5:05 PM | JSON File | 1 KB |

Open the **widgets** folder.

C:\DAVID\EXB\EXB15\client\your-extensions\widgets\

| | 9/4/2023 5:34 PM | File folder | |
|---------|------------------|--------------|------|
| gitkeep | 9/4/2023 5:05 PM | GITKEEP File | 0 KB |

All your custom widgets will go here.

Open the **simple** folder. This is a sample widget.

| 📙 simple | 9/4/2023 5:34 PM | File folder | |
|------------|------------------|--------------|------|
| 📑 .gitkeep | 9/4/2023 5:05 PM | GITKEEP File | 0 KB |

C:\DAVID\EXB\EXB15\client\your-extensions\widgets\simple

| src . | 9/4/2023 5:34 PM | File folder | |
|-----------------|------------------|--------------|------|
| tests | 9/4/2023 5:34 PM | File folder | |
| 📓 config.json | 9/4/2023 5:05 PM | JSON File | 1 KB |
| 🕘 icon.svg | 9/4/2023 5:05 PM | SVG Document | 3 KB |
| 📔 manifest.json | 9/4/2023 5:05 PM | JSON File | 1 KB |

Open **manifest.json** in Code

Expand the Menu



Turn on Word Wrap

File | View | Word Wrap

| * | \equiv | \leftarrow \rightarrow | ⊖ Se | arch | □ □ □ 0: - | | × |
|--------------|-----------|----------------------------|----------------------------|----------------------|--------------------|----------|---|
| ſ | File | > | anifest.json × | | | | |
| | Edit | > | > client > your-extensions | > widgets > simple > | {} manifest.json > | | |
| Q | Selection | > | | | | - Alless | |
| <i>´</i> | View | > | Command Palette | Ctrl+Shift+P | | SEC. | |
| റ്റ്റ | Go | > | Open View | | | | |
| č | Run | > | Appearance | > | | | |
| æ | Terminal | > | Editor Layout | > | | | |
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| B | | an example c | Explorer | Ctrl+Shift+E | ncludes a | | |
| | | placeholder | Search | Ctrl+Shift+F | clude the | | |
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| | | documentatic | Run | Ctrl+Shift+D | ment these | | |
| | | features.", | Extensions | Ctrl+Shift+X | | | |
| | 10 | "license": | Problems | Ctrl+Shift+M | -2.0", | | |
| | 11 | "properties' | Output | Ctrl + Shift + H | | | |
| | 12 | "translatedl | Output | Ctri+Shiit+O | | | |
| | 13 | "en" | Debug Console | Ctrl+Shift+Y | | | |
| | 14 15 |], "defaultSize | Terminal | Ctrl+` | | | |
| | 16 | "width": ε | ✓ Word Wrap | Alt+Z | | | |
| Q | 17 | "height": | Sticky Scroll | | | | |
| ^o | 18 | } | SUCKY SCIUII | | | | |
| 533 | 19 | 3 | | | | | |
| দ্যুহ | | | | | | | |
| × | ⊗ 0 ∆ 0 | | L | n 1, Col 1 Spaces: 2 | UTF-8 CRLF {} JSON | ጽ | Û |

"version" = Widget Version set by the author.

"exbVersion" = The Experience Builder Version this widget has been designed to run.



Note: A widget that has been designed to run on EXB 1.12 may not work on earlier versions without modifications.

Conversely, a widget designed to run on EXB 1.12 may not work on future versions because of breaking changes.

When you add Custom Widgets, make sure they are compatible with the Experience Builder Version you are using.

Custom Widgets designed for a specific version of EXB Dev may not function properly on newer or older versions.

Open the **Server folder**.

C:\DAVID\EXB\EXB15\

| client | 9/4/2023 5:34 PM | File folder | |
|-----------------------|------------------|---------------|-------|
| server | 9/4/2023 5:34 PM | File folder | |
| 3rd-party-license.txt | 9/4/2023 4:52 PM | Text Document | 68 KB |
| readme.txt | 9/4/2023 4:52 PM | Text Document | 1 KB |
| 📔 version.json | 9/4/2023 4:52 PM | JSON File | 1 KB |

C:\DAVID\EXB\EXB15\server\

| cert | 9/4/2023 5:34 PM | File folder | |
|---------------------|------------------|-------------|--------|
| src | 9/4/2023 5:34 PM | File folder | |
| 📓 package.json | 9/4/2023 5:05 PM | JSON File | 2 KB |
| 📓 package-lock.json | 9/4/2023 5:05 PM | JSON File | 559 KB |
| 📔 version.json | 9/4/2023 5:05 PM | JSON File | 1 KB |

There are only a handful of files.

This folder will get populated once you run a Clean Install of Node.js

Install Node.js version 14.21.3

If you open the Downloads Page for Node.js, you will find the latest Long Term Support (LTS) Version.

https://nodejs.org/en/download

| nødes | HOME ABOUT DOWNLOADS DOCS GET INVOLVED SECURITY CERTIFICATION NEWS | 6 🕅 |
|-------|--|-----|
| | • | |

Downloads

Latest LTS Version: 18.16.0 (includes npm 9.5.1)

Download the Node.js source code or a pre-built installer for your platform, and start developing today.

| LTS Recommended For Most Us | sers | Current Latest Features | |
|--------------------------------|----------------------|----------------------------|--|
| Windows Installer | | Source Code | |
| node-v18.16.0-x64.msi | node-v18.16.0.pkg | node-v18.16.0.tar.gz | |
| Windows Installer (.msi) | 32-bit | 64-bit | |
| Windows Binary (.zip) | 32-bit | 64-bit | |
| macOS Installer (.pkg) | 64-b | t / ARM64 | |
| macOS Binary (.tar.gz) | 64-bit | ARM64 | |
| Linux Binaries (x64) | 64-bit | | |
| Linux Binaries (ARM) | ARMv7 | ARMv8 | |
| Source Code | node-v18.16.0.tar.gz | | |

Do not download the latest version!

You may run into issues.

For Experience Builder Developer Edition 1.12, the recommended version of Node.js = 16

| exbVersion | JSAPI versions | ArcGIS Enterprise | Developer edition | ArcGIS Online | Recomended Node.js versions | Recomended React.js versions |
|------------|-------------------|----------------------|----------------------|------------------|--------------------------------|---------------------------------|
| 1.12 | 4.27 | | 1.12 | July 2023 | 16 | 18 |
| 1.11 | 4.26 | | 1.11 | March 2023 | 16 | 17 |
| 1.10 | 4.25 | 11.1 | 1.10 | November 2022 | 16 | 17 |
| 1.9 | 4.24 | | 1.9 | June 2022 | 14 | 17 |
| 1.8 | 4.23 | 11.0 | 1.8 | March 2022 | 14 | 17 |
| 1.7 | 4.22 | | 1.7 | January 2022 | 14 | 17 |
| 1.6 | 4.21 | | 1.6 | October 2021 | 14 | 17 |
| 1.5 | 4.20 | 10.9.1 | 1.5 | June 2021 | 14 | 17 |
| 1.4 | 4.19 | | 1.4 | April 2021 | 14 | 17 |
| 1.3 | 4.18 | 10.9 | 1.3 | December 2020 | 14 | 16 |
| 1.2 | 4.17 | | 1.2 | October 2020 | 12 | 16 |
| 1.1 | 4.16 | | 1.1 | June 2020 | 12 | 16 |
| 1.0 | 4.15 | 10.8.1 | 1.0 | February 2020 | 12 | 16 |

https://developers.arcgis.com/experience-builder/guide/release-versions/

Note: Do not use a Node.js version higher than 16.

However, you can use any version lower than 16.

The minimum version of Node.js required is 12.

For this Tutorial, you will be installing Node.js version 14. You will get a clean installation with zero warning messages. Scroll down this page and select Previous Releases

https://nodejs.org/en/download

Additional Platforms

| Docker Image | Official Node.js Docker Image |
|---------------------------|-------------------------------|
| Linux on Power LE Systems | 64-bit |
| Linux on System z | 64-bit |
| AIX on Power Systems | 64-bit |

- Signed SHASUMS for release files (How to verify)
- All download options
- Installing Node.js via
- Previous Releases
- **Previous Releases**
- Nightly builds
- Unofficial builds
- Building Node.js from source on supported platforms
- Installing Node.js via binary archive
- Install on Windows Subsystem for Linux (WSL)

https://nodejs.org/en/download/releases



Previous Releases

io.js & Node.js

Releases 1.x through 3.x were called "io.js" as they were part of the io.js fork. As of Node.js 4.0.0 the former release lines of io.js converged with Node.js 0.12.x into unified Node.js releases.

| Version | LTS | Date | V8 | npm | NODE_MODULE_VERSION[1] | | | | |
|------------------|----------|------------|-------------|---------|------------------------|-----|----------|-----------|------|
| Node.js 20.1.0 | | 2023-05-03 | 11.3.244.8 | 9.6.4 | 115 | | Releases | Changelog | Docs |
| Node.js 19.9.0 | | 2023-04-10 | 10.8.168.25 | 9.6.3 | 111 | | Releases | Changelog | Docs |
| Node.js 18.16.0 | Hydrogen | 2023-04-12 | 10.2.154.26 | 9.5.1 | 108 | | Releases | Changelog | Docs |
| Node.js 17.9.1 | | 2022-06-01 | 9.6.180.15 | 8.11.0 | 102 | | Releases | Changelog | Docs |
| Node.js 16.20.0 | Gallium | 2023-03-28 | 9.4.146.26 | 8.19.4 | 93 | | Releases | Changelog | Docs |
| Node.js 15.14.0 | | 2021-04-06 | 8.6.395.17 | 7.7.6 | 88 | | Releases | Changelog | Docs |
| Node.js 14.21.3 | Fermium | 2023-02-16 | 8.4.371.23 | 6.14.18 | 83 Releases | | Releases | Changelog | Docs |
| Node.js 13.14.0 | | 2020-04-29 | 7.9.317.25 | 6.14.4 | 79 | -/- | Releases | Changelog | Docs |
| Node.js 12.22.12 | Erbium | 2022-04-05 | 7.8.279.23 | 6.14.16 | 72 | | Releases | Changelog | Docs |

Looking for latest release of a version branch?

Select Releases for Node.js 14.21.3 Fermium

Index of /download/release/v14.21.3/

| <u>/</u> | | | |
|---|-------------|-------|----------|
| <u>docs/</u> | 16-Feb-2023 | 15:40 | - |
| <u>win-x64/</u> | 16-Feb-2023 | 15:42 | - |
| <u>win-x86/</u> | 16-Feb-2023 | 15:39 | - |
| SHASUMS256.txt | 16-Feb-2023 | 22:06 | 2953 |
| SHASUMS256.txt.asc | 16-Feb-2023 | 22:06 | 3835 |
| SHASUMS256.txt.sig | 16-Feb-2023 | 22:06 | 566 |
| node-v14.21.3-aix-ppc64.tar.gz | 16-Feb-2023 | 15:33 | 43699874 |
| node-v14.21.3-darwin-x64.tar.gz | 16-Feb-2023 | 16:04 | 32241321 |
| node-v14.21.3-darwin-x64.tar.xz | 16-Feb-2023 | 16:04 | 20885076 |
| node-v14.21.3-headers.tar.gz | 16-Feb-2023 | 15:41 | 603369 |
| node-v14.21.3-headers.tar.xz | 16-Feb-2023 | 15:41 | 391980 |
| node-v14.21.3-linux-arm64.tar.gz | 16-Feb-2023 | 15:40 | 34313013 |
| node-v14.21.3-linux-arm64.tar.xz | 16-Feb-2023 | 15:41 | 21532688 |
| node-v14.21.3-linux-armv7l.tar.gz | 16-Feb-2023 | 15:28 | 32444336 |
| node-v14.21.3-linux-armv7l.tar.xz | 16-Feb-2023 | 15:29 | 19390324 |
| <pre>node-v14.21.3-linux-ppc64le.tar.gz</pre> | 16-Feb-2023 | 15:24 | 36255542 |
| <pre>node-v14.21.3-linux-ppc64le.tar.xz</pre> | 16-Feb-2023 | 15:26 | 22698084 |
| node-v14.21.3-linux-s390x.tar.gz | 16-Feb-2023 | 15:22 | 34570308 |
| node-v14.21.3-linux-s390x.tar.xz | 16-Feb-2023 | 15:23 | 21208244 |
| node-v14.21.3-linux-x64.tar.gz | 16-Feb-2023 | 15:22 | 34278372 |
| node-v14.21.3-linux-x64.tar.xz | 16-Feb-2023 | 15:23 | 22187736 |
| node-v14.21.3-win-x64.7z | 16-Feb-2023 | 15:43 | 17670640 |
| node-v14.21.3-win-x64.zip | 16-Feb-2023 | 15:44 | 29088388 |
| node-v14.21.3-win-x86.7z | 16-Feb-2023 | 15:40 | 16537820 |
| node-v14.21.3-win-x86.zip | 16-Feb-2023 | 15:40 | 27489213 |
| node-v14.21.3-x64.msi Download | 16-Feb-2023 | 15:45 | 30670848 |
| node-v14.21.3-x86.msi | 16-Feb-2023 | 15:40 | 28975104 |
| node-v14.21.3.pkg | 16-Feb-2023 | 15:59 | 32427197 |
| node-v14.21.3.tar.gz | 16-Feb-2023 | 15:33 | 64736018 |
| node-v14.21.3.tar.xz | 16-Feb-2023 | 15:37 | 34508116 |

Download the file:

node-v14.21.3-x64.msi

Note, the x64 is for 64-bit machines.

```
🐻 node-v14.21.3-x64.msi
```

9/4/2023 6:25 PM

Windows Installer Package 29,952 KB

| Node.js Setup | | _ | | × |
|---|---|---|------------------------|----|
| | Welcome to the Node.js | Setup V | Wizard | |
| nøde | The Setup Wizard will install Node.js | on your co | mputer. | |
| | | | | |
| | Back Ne | ext | Cance | 9 |
| 🛃 Node.js Setup | | _ | | × |
| End-User License Agreen Please read the following lice | nent ense agreement carefully | n | | • |
| Node.js is licensed for | use as follows: | | | ^ |
| Copyright Node.js contril | butors. All rights reserved. | | | ۰. |
| Permission is hereby gra a copy of this software a "Software"), to deal in th without limitation the rig distribute, sublicense, ar permit persons to whom | anted, free of charge, to any pe and associated documentation f he Software without restriction, hts to use, copy, modify, merge nd/or sell copies of the Software the Software is furnished to de | rson obta iles (the including e, publish, e, and to o so, subj | ining I , ect | * |
| ☑ I accept the terms in the L | icense Agreement | | | |
| | Print Back N | ext | Cano | el |

Double click on this msi file to run the installation.

Installation Folder = C:\Program Files\nodejs\

| Node.js Setup | | | | _ | | × |
|--|--|----------|--|--|------------------------------|----|
| Destination Fold Choose a custom lo | e r ocation or click Next to in | stall. | | ń | | 2 |
| Install Node.js to: | | | | | | |
| C:\Program Files\no | idejs\ | | | | | |
| | | Ва | ck | Next | Canc | el |
| 🖟 Node.js Setup | | | | _ | | × |
| Custom Setup Select the way you | ı want features to be ins | stalled. | | ń | d | • |
| Click the icons in th | e tree below to change | the way | features | will be installed. | | |
| | <mark>de.js runtime</mark> repack manager m package manager Nine documentation shor | tcuts | Install th (node.e: | ne core Node.js xe). | runtime | |
| | ld to PATH | > | This fea hard driv subfeat subfeat hard driv | ture requires 55 /e. It has 1 of 1 /res selected. T /res require 12k /e. | MB on you he Œ on your | Ir |
| | | | | | Browse | |
| Reset | Disk Usage | | Back | Next | Cano | el |

Important: Do not install Chocolatey!

Leave this option unchecked.



installation settings. Click Cancel to exit the wizard.

 Back
 Install
 Cancel

| 🖟 Node.js Setup | – 🗆 X |
|--|-------------|
| Installing Node.js | nøde |
| Please wait while the Setup Wizard installs Node.js. | |
| Status: Copying new files | |
| | |
| | |
| | |
| Back | Next Cancel |

| 🖟 Node.js Setup | - 🗆 X |
|-----------------|---|
| | Completed the Node.js Setup Wizard |
| nøde | Click the Finish button to exit the Setup Wizard. |
| | Node.js has been successfully installed. |
| | |
| | |
| | Back Finish Cancel |

Node.js version 14.21.3 has now been installed on your computer.

Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

| Organize 🕶 Uninstall Change Repair | | | | Ē |
|---------------------------------------|-----------------------|--------------|---------|----------------|
| Name | Publisher | Installed On | Size | Version |
| 🔀 Microsoft Visual Studio Code (User) | Microsoft Corporation | 9/1/2023 | 344 MB | 1.81.1 |
| 📢 Microsoft Visual Studio Installer | Microsoft Corporation | 2/10/2022 | | 3.5.2150.18781 |
| 🕽 Mobirise4 | Mobirise.com | 2/19/2022 | 164 MB | |
| 🍅 Mozilla Firefox (x64 en-US) | Mozilla | 9/1/2023 | 216 MB | 117.0 |
| 📸 Mozilla Maintenance Service | Mozilla | 8/19/2023 | 573 KB | 116.0.3 |
| Netskope Client | Netskope, Inc. | 6/21/2023 | 26.2 MB | 102.1.6.1356 |
| Node.js Node.js | Node.js Foundation | 9/4/2023 | 83.0 MB | 14.21.3 |
| 🔛 Notepad++ (64-bit x64) | Notepad++ Team | 8/21/2023 | 14.8 MB | 8.5.5 |
| NVIDIA Graphics Driver 517.37 | NVIDIA Corporation | 2/3/2023 | | 517.37 |
| NVIDIA HD Audio Driver 1.3.39.14 | NVIDIA Corporation | 2/3/2023 | | 1.3.39.14 |
| NVIDIA USBC Driver 1.46.831.832 | NVIDIA Corporation | 2/3/2023 | | 1.46.831.832 |



Search for Node from the Start Menu

Run Node.js as Administrator.

This verifies you are running Node.js version 14.21.3

| | Node.js version 14.21.3 | |
|-------------------|-------------------------|--|
| Node.js | | |
| Welcome to Node.j | js v14.21.3. | |
| >_ | more information. | |
| | | |
| | | |

Node.js Server Clean Installation

Navigate the Server Folder

C:\DAVID\EXB\EXB15\server

Highlight the path.

| ← → • ↑ 🗖 🖸 | DAVID\EXB\EXB15\server | | |
|---------------------|------------------------|---|---------------------|
| | | ^ | Name |
| Quick access | Highlight the Path | | cert |
| Desktop | | | node_modules |
| 🕂 Downloads | | * | src |
| Documents | | * | 📔 package.json |
| Pictures | | * | 📔 package-lock.json |
| 🚽 oet-gis-software- | prod\$ | * | 🥁 version.json |
| DAVID | | * | |

Type **cmd** and press Enter.



This opens a Command Window with the correct path already in place.



Run a Clean Install.

Enter <mark>npm ci</mark>



Be patient!

This may take 5 minutes.

You may think that the process has hung. Do not close this window.

Wait till you see this prompt.



713 Packages were added.

Examine your Server Folder.

C:\DAVID\EXB\EXB15\server\

A new folder named **node_modules** was created.

| cert | 9/4/2023 5:34 PM | File folder | |
|---------------------|------------------|-------------|--------|
| node_modules | 9/4/2023 6:41 PM | File folder | |
| src src | 9/4/2023 5:34 PM | File folder | |
| 📔 package.json | 9/4/2023 5:05 PM | JSON File | 2 KB |
| 📔 package-lock.json | 9/4/2023 5:05 PM | JSON File | 559 KB |
| 📔 version.json | 9/4/2023 5:05 PM | JSON File | 1 KB |

Start the npm server

Enter <mark>npm start</mark>

| npm | |
|---|-------------------|
| Microsoft Windows [Version 10.0.19045.3324] (c) Microsoft Corporation. All rights rese |] rved. |
| C:\DAVID\EXB\EXB15\server>npm ci added 713 packages in 87.706s | |
| C:\DAVID\EXB\EXB15\server>npm start | npm start |
| > exb-server@0.1.0 start C:\DAVID\EXB\Ext > cross-env NODE_ENV=production node src/se | 5\server erver |
| Apps folder: C:\DAVID\EXB\EXB15\server\pub Http server running on port 3000 Https server running on port 3001 | lic\apps |

Keep this window open. Do not close this.

Node.js Client Clean Installation

Navigate to the Client Folder

C:\DAVID\EXB\EXB15\client\

Highlight the Path



Type **cmd** and press Enter.

This opens a second Command Window with the correct path already in place.



Run a Clean Install.

Enter <mark>npm ci</mark>



Be patient as the extraction takes place.

This may take 5 minutes.

Eventually, you will get back the prompt like this.

| C:\WINDOWS\system32\cmd.exe |
|---|
| > nx@15.8.9 postinstall C:\DAVID\EXB\EXB15\client\node_modules\nx > node ./bin/compute-project-graph |
| > fsevents@1.2.13 install C:\DAVID\EXB\EXB15\client\node_modules\glob-watcher\node_modules\fsevents > node install.js |
| Skipping 'fsevents' build as platform win32 is not supported |
| <pre>> es5-ext@0.10.62 postinstall C:\DAVID\EXB\EXB15\client\node_modules\es5-ext > node -e "try{require('./_postinstall')}catch(e){}" exit 0</pre> |
| > exb-client@1.12.0 postinstall C:\DAVID\EXB\EXB15\client > npm run lerna-bootstrap |
| > exb-client@1.12.0 lerna-bootstrap C:\DAVID\EXB\EXB15\client > lerna bootstrap |
| lerna notice cli v6.6.1 lerna info Bootstrapping O package lerna info Symlinking packages and binaries lerna success Bootstrapped O package added 2400 packages in 298.002s |
| C:\DAVID\EXB\EXB15\client> |

2400 packages were added.

A new node_modules folder was added.

C:\DAVID\EXB\EXB15\client\

| | mocks | 9/4/2023 5:34 PM | File folder | |
|----|------------------------------|------------------|-------------------|----------|
| | dist | 9/4/2023 5:32 PM | File folder | |
| | jimu-arcgis | 9/4/2023 5:33 PM | File folder | |
| | jimu-core | 9/4/2023 5:33 PM | File folder | |
| | jimu-for-builder | 9/4/2023 5:34 PM | File folder | |
| | jimu-for-test | 9/4/2023 5:34 PM | File folder | |
| | jimu-icons | 9/4/2023 5:34 PM | File folder | |
| | jimu-layouts | 9/4/2023 5:34 PM | File folder | |
| | jimu-theme | 9/4/2023 5:34 PM | File folder | |
| | jimu-ui | 9/4/2023 5:34 PM | File folder | |
| | node_modules | 9/4/2023 6:58 PM | File folder | |
| | scripts | 9/4/2023 5:34 PM | File folder | |
| | types | 9/4/2023 5:34 PM | File folder | |
| | webpack | 9/4/2023 5:34 PM | File folder | |
| | your-extensions | 9/4/2023 5:34 PM | File folder | |
| | .eslintignore | 9/4/2023 4:52 PM | ESLINTIGNORE File | 1 KB |
| JS | .eslintrc.js | 9/4/2023 4:52 PM | JavaScript Source | 4 KB |
| JS | jest.config.js | 9/4/2023 4:52 PM | JavaScript Source | 4 KB |
| JS | jest-systemjs-transformer.js | 9/4/2023 4:52 PM | JavaScript Source | 2 KB |
| 2 | lerna.json | 9/4/2023 4:52 PM | JSON File | 1 KB |
| 2 | package.json | 9/4/2023 4:52 PM | JSON File | 6 KB |
| 2 | package-lock.json | 9/4/2023 4:52 PM | JSON File | 2,030 KB |
| 2 | tsconfig.json | 9/4/2023 4:52 PM | JSON File | 1 KB |
| JS | webpack.config.js | 9/4/2023 4:52 PM | JavaScript Source | 1 KB |

Start the npm client service

Enter npm start



Notice how it picks up the simple custom widget.

You should have 2 command windows open.

- npm server
- npm client

| | npm server | | |
|---|-------------------------------------|-----------------------|----------|
| on npm | | | |
| <pre>Hicrosoft Windows [Version 10.0.19045.3324] (c) Microsoft Corporation. All rights reserved.</pre> | ^ | | |
| C:\DAVID\EXB\EXB15\server≻npm ci added 713 packages in 87.706s | | | |
| C:\DAVID\EXB\EXB15\server>npm start | | | |
| <pre>exb-server@0.1.0 start C:\DAVID\EXB\EXB15\server cross-env NODE_ENV=production node src/server</pre> | | | |
| Apps folder: C:\DAVID\EXB\EXB15\server\public\apps Http server running on port 3000 Https server running on port 3001 | | | |
| | ~ | | |
| | | npm client | |
| 📧 webpack | | - | |
| <pre>> fsevents@1.2.13 install C:\DAVID\EXB\EXB15\client\ > node install.js</pre> | node_modules\glob-wa | atcher\node_modules\4 | fsevents |
| Skipping 'fsevents' build as platform win32 is not s | upported | | |
| <pre>> es5-ext@0.10.62 postinstall C:\DAVID\EXB\EXB15\cli > node -e "try{require('./_postinstall')}catch(e){}</pre> | ent\node_modules\es! " exit 0 | 5-ext | |
| > exb-client@1.12.0 postinstall C:\DAVID\EXB\EXB15\c > npm run lerna-bootstrap | lient | | |
| > exb-client@1.12.0 lerna-bootstrap C:\DAVID\EXB\EXB > lerna bootstrap | 15\client | | |
| lerna notice cli v6.6.1 lerna info Bootstrapping 0 package lerna info Symlinking packages and binaries lerna success Bootstrapped 0 package added 2400 packages in 298.002s | | | |
| C:\DAVID\EXB\EXB15\client>npm start | | | |
| <pre>exb-client@1.12.0 start C:\DAVID\EXB\EXB15\client cross-env NODE_ENV=development webpackmode deve</pre> | lopmentwatch | | |
| ntrypoint widgets/simple/dist/runtime/widget 9.7 Ki webpack 5.76.3 compiled successfully in 1297 ms | <pre>B = widgets/simple/</pre> | dist/runtime/widget. | js |

Launch the Experience Builder Developer Edition

Open Chrome and enter:

https://localhost:3001/

| Specify the URL to your ArcGIS Online organization or ArcGIS Enterprise | | | | |
|---|---|--|--|--|
| https://www.arcgis.com | | | | |
| Please enter the full URL of your ArcGIS Online or https://myorg.maps.arcgis.com https://myportal.company.com/arcgis Provide the Client ID for Experience Builder register | rganization or ArcGIS Enterprise, for example, ered in the ArcGIS Enterprise you specify above | | | |
| Client ID | | | | |
| | Sign in | | | |

Specify the URL to your ArcGIS Online Organization = <u>https://maricopa.maps.arcgis.com</u>

| https://maricopa.maps.arcgis | .com | ~ | | |
|--|---------|---|--|--|
| Provide the Client ID for Experience Builder registered in the ArcGIS Enterprise you specify above | | | | |
| Client ID | | | | |
| | Sign in | | | |

Enter your Client ID = **qx2Eu4b0uyJb224A**

| Specify the URL to your ArcGIS Online organization or ArcGIS Enterprise | |
|--|--|
| https://maricopa.maps.arcgis.com | |
| Provide the Client ID for Experience Builder registered in the ArcGIS Enterprise you specify above | |
| ••••••• | |
| Sign in | |
| EXB Client ID wants to access your ArcGIS Online account information (?) | |
| | |
| Sign in to Maricopa County Enterprise GIS | |
| | |
| ArcGIS login | |
| GIO_DasT | |
| | |
| ✓ Keep me signed in | |
| Forgot username? or Forgot password? | |

Launching the Experience Builder ArcGIS Online Edition

Note: If you were to launch the ArcGIS Online Edition of the Experience Builder, you would Sign In to your AGOL Account, expand the Menu and select Experience Builder.



https://maricopa.maps.arcgis.com/home/index.html

Image: Construction of the second of the

Create a New Experience

Select the Jewelry Box Template

Select Web AppBuilder classic.

| Template | | | × |
|---------------------------------------|----------------------------|--------------|--------|
| Select a template to start | | Q Search | |
| Default My templates ArcGIS Or | line Living Atlas | | |
| All Blank Web AppBuil classic | lder Map centric Dashbo | pard Web Web | ebsite |
| | | : | |
| · · · · | | = | |
| Foldable | Launchpad | Dart | |
| <u>Create</u> ्रि | <mark>Create</mark> ହ | Create | Q |
| | • | ! | |
| <u> </u> | | <u>.</u> | |
| JewelryBox | Pocket | Billboard | |
| Create | Create | Create | Q |
| | | | |

Create your Experience using the Jewelry Box Template.



This is what you will see:

Name your Experience = Historical Aerials v1



Unlock the Layout

| (| Historical Aerials v1 | Draft Lock layout O Live view | |
|----------|-----------------------|-------------------------------|--|
| + | Page Window | Unlock the Layout | |
| L. | 🗉 Page | | |

Open the Menu and **Save** the Experience

| | O Live view | 0 | 0 | 1280 × 8 | 00- | | Publis | sh 😩 |
|-----|--------------------|---|--------|----------|-----|------|--------|------|
| | | • | Undo | | - | | | 0 |
| Tit | le | * | Redo | | | Menu | 1 | |
| | Save | 8 | Save | | | ind | ow | í |
| | Double click to e | P | Save a | s | | Save | 2 | ~ |
| | Double click to el | 0 | Previe | w | | | | |
| | | 団 | Delete | ; | | | | |

Publish your Experience.



Your Experience has been published.

| (| Historical <i>i</i> | Aerials v1 Published | Lock layout 🌘 | O Live view | 🖸 O o | 1280 × 800 ▼ | Published |
|----------|---------------------|----------------------|---------------|-------------|-------|--------------|-----------|
| + | Page | Published | | Title | | 🗐 Page | 0 |
| | E Page | | | litie | | | |

View published item.



https://localhost:3001/experience/0/

| | | V – П X |
|--|--|--|
| ArcGIS Experience Builder × Historical Aeria | als v1 × + | |
| ← → C ① ▲ Not secure https://localhost | :3001/experience/0/ | 년 ☆ 🛛 😩 : |
| G Google O OKTA 🍘 AGOL 🍁 GIS Portal 🛶 N | ew Portal 🚳 MCDOT Portal 🎯 ArcGIS Assistant 🎬 GIS | DevWeb 🔞 Localhost:3344 esri Custom Widgets 💶 YouTube 🛛 » |
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| Double click to edit text Double click to edit text | Contraction of the second seco | Payson Arizona Show Low Fondo Rational Forest Payson Arizona Vite Forest Payson Vite |
| Double click to edit text Double click to edit text | | Peorla Phoenix Mesa Biservation |
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| Double click to edit text Double click to edit text | Puerto Peñasco | Nogales |
Go back to the Experience Builder Home Page.

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| Home | | Historical Aerials v1 | Published | Lock layou | nt O Live view |
| | + | Page Window | ₽ ~ | | Title |
| | Ŀ | 🗉 Page | â | 0 | nue |

You have one Experience named Historical Aerials v1

| ArcGIS Experience Builder (Developer Edition) | | Experiences | Templates | |
|---|--|-------------|-----------------------------------|--|
| | Recent experiences | | .↓ Import - Create new | |
| | Q Search Published Historical Aerials v1 GiO_DasT 09/04/2023 | | Owned by me ∨ Last modified ∨ ⊞ ∷ | |

Edit the information.

| · | Published | | |
|-----------------------|-----------|-----------|-----------|
| | | | |
| | | | |
| Historical Aerials v1 | | | |
| | | | |
| GIO_DasT | | | |
| 09/04/2023 | | | |
| | [2] | Duplicate | |
| | | Edit info | |
| | | Delete | Edit info |
| | | Download | |

Add Summary = EXB 1.12, Node.js 14.21.3

| Edit experience info | | × |
|----------------------|---|----|
| | Name Historical Aerials v1 Summary EXB 1.12, Node.js 14.21.3 | |
| Edit thumbnail | | |
| | OK Cance | əl |

Download the ZIP File.

| Published | | |
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| Historical Aerials v1 | | |
| 09/04/2023 | | |
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https://localhost:3001/download/0?locale=enus&token=oL_a_Rc6QCHyFXYJ5IINQEG1HLbQqd9jqBG7wE6ZD6x5tX-O59mLUYZSq1EX9Z3Qzw4DvpF_NOHTEqL7JH6LUF8VyhrPp9IMBFyjw9lZoasm31gUGoyVNK6FOQyNmeZ1HhGioAez1XDvR-OHYL_QUHy9h5dqoZuBhpUmYLelmjCXLfaVHkic2FJNVWZCN0aXov2hYTodd00jZkh7uC44nz1W8IGz198WpXjHdrKg.

Most likely this process will fail.

You will get an error message = Not Found



Do not worry!

You will learn later how to manually assemble the necessary files that you would need to host your finished Web App.

Create Historical Aerials v2

Duplicate Historical Aerials v1 to create Historical Aerials v2

| Published | |
|------------------------|---------------------|
| | |
| Historical Aerials v1 | |
| GIO_DasT 09/04/2023 | |
| | Duplicate |
| | Edit info Duplicate |
| | Delete |
| | Download |

Edit Info

| Historical Aerials v1 Copy GIO_DasT 09/04/2023 CIO_DasT 09/04/2023 CIO_DasT 09/04/2023 | o — — — — Draft | | •— | | Pu | blished |
|--|----------------------------|------|------------|--------|-------|---------|
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| GIO_DasT GIO_DasT 09/04/2023 09/04/2023 C ··· Duplicate C ··· Edit info | Historical Aerials v1 Copy | | Historical | Aerial | ls v1 | |
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| | | | | | | |

Edit experience info Image: Constraint of the symbol of th



Open the Theme Tab



The current Theme = Violet





Switch to the Default Theme

Open the Page Tab



The Page Tab reveals the outline.

Expand the Fixed Panel.



Identify each widget on the Page.

Select the Image widget on the Page Outline.

This allows you to configure the Image widget.

| ٩ | Historical Aerials v2 | ift | Image | |
|----|-------------------------|--------|-------|---|
| + | Page Window | ⊕ ~ | | |
| L. | 🗏 Page | ۵ | | .ie 6 ட தே 🗄 🛄 |
| 9 | | | | Double click to edit t Double click to edit text |
| ચ | | | | |
| æ | | | | Double click to edit t Double click to edit text |
| | — Outline | ٩ | | Double click to edit t |
| | Body ∨ ⊡ Fixed Panel | ^ | | Double click to edit text |
| | 🛛 Image | Select | | |
| | 🗉 Text | | | Double click to edit t Double click to edit text |
| | ⊡ Text 2 | | | |
| | > 🖾 Widget Controller | | | |
| | > 🔲 Sidebar | | | Double click to edit t |

Rename the Image widget to Logo



Download Custom.zip from:

https://github.com/DavidDas2/exb/

Unzip custom.zip

| 📱 custom.zip | 9/4/2023 9:15 PM | Compressed (zipped) Folder | 43 KB |
|--------------|------------------|----------------------------|-------|
| | | | |

C:\Users\David.das\Downloads\custom\Custom\

You will get two fully configured custom widgets for Google Maps and Pictometry. You will use the included Logo.png image.

| get-map-coordinates-class | 9/4/2023 9:16 PM | File folder | |
|----------------------------|------------------|--------------------|-------|
| get-map-coordinates-class2 | 9/4/2023 9:16 PM | File folder | |
| 🍀 Logo.png | 9/4/2023 9:16 PM | IrfanView PNG File | 11 KB |

Select the Text widget in the Outline.



Resize the Title Box to make more room for the rectangular Logo.



Rename the Text widget to Title.



Select the **Edit Tool** or double click on the Text Box to enter Edit Text Mode.



Enter: Historical Aerials



Select the entire Text string.

Select Font = Impact

Font Size = **24**

Color = White



Select Align = Full Height



Open the Style Tab

| Historical Aerials | | T Title | 0 |
|--------------------|---------------------|------------|-------|
| | Subtitle | Content | Style |
| Dq ⊨ × | Tind address or pla | Connect to | Style |
| | - * | Wrap | |

Set Width = Auto

Set Height = Auto



Select Vertical Center



This is your Title perfectly fitted and vertically centered.



Select the **Text 2** widget from the Page Outline.

| + | Page Window | + ~ | | | |
|---|-----------------------|--------------------|--------|--|---------------------------|
| | E Page | $\hat{\mathbf{O}}$ | | Historical Aerials | Subtitle |
| | | | | Double click to edit text | E· ◇· ♂ C C ů ∠ 0 |
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| | ⊤ Title | | | Double click to edit text | |
| | Text 2 | | Select | Double click to edit text | the second second second |
| | > 🕅 Widget Controller | | | | |

Enter v2 for your Subtitle.



Rename the Text 2 widget to Subtitle.



Set the Size & Position:

Width = Auto Height = Auto



Select the Logo widget from the Page Outline.



Increase the width of the Logo box.



Open the Content Tab for the Logo Properties.

Select an image.



Upload Logo.png from your Local computer.

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Change Position to Fit

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Align = Full Height





Tooltip = Maricopa.gov

Alt Text = Maricopa Logo

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Click on the **Set Link** button.



Link to URL



URL = <u>https://www.maricopa.gov</u>

| Set link | × | 🔄 Logo | 0 |
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| | | Maricopa Logo | |
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Resize the Logo to make it aesthetically pleasing.



Apply Maricopa County Color Palette



Primary Colors:

Summer Night Blue = #132048 Sunrise Orange = #F26724

Secondary Colors:

Blue = #006EB5 Dark Gray = #383838 Light Gray = #F3F3F3 Orange = #FAA21B

Colors to be used when placed on Summer Night Blue

Light Blue = #059BFF Pale Orange = #FF8F5C

Change the Fixed Panel Background Color

Select the Fixed Panel from the Page Outline.



Select the Background Fill.

| Fixed Panel | ? |
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Enter HEX value = <mark>#132048</mark>





Delete the Map Layers Widget

Expand the Widget Controller in the Page Outline.



Delete the Map Layers Widget.



Delete

Delete

Cancel

Delete the List Widget

Expand the Sidebar widget on the Page Outline.



Delete the List Widget



Delete the Map Widget





This leaves you with an almost empty template featuring a Fixed Panel and a Sidebar.

Make the Sidebar dock to the Right

Select the Sidebar from the Page Outline.

Notice that this Sidebar docks on the Left.

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Resizable = Yes Default state = Expanded Collapse button = Yes Change the Collapse button style.

| | Collapse button | |
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Change the Icon Style and Size

| Collapse button |
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Change the default color of the Collapse button = **#FAA21B**



Change the Hover Color = <mark>#F26724</mark>



Change the Width and Height of the Collapse button.

Width = **25** Height = **80** Offset X = **-25**

The negative Offset X must match the width.

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| | Height | 80 |
| | Position | Center ~ |
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| | Offset Y | 0 |

Note: If you have problems engaging the Collapse button on a Smartphone, you need to make this collapse button larger.

Click anywhere outside the Page.

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Publish



View Published Item.

https://localhost:3001/experience/1/

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Click on the collapse button.

The Right Sidebar will collapse to the right.

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When you hover over the button, it would turn orange.



Go back to the Home Page

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Create Historical Aerials v3

Duplicate Historical Aerials v2 to create Historical Aerials v3

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Edit Info

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Name = Historical Aerials v3

Summary = Add bottom Sidebar

| Edit expe | erience info | | | × | |
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Edit the Subtitle to read v3



Plan your Layout

The Map Layers widget will be housed within Right Sidebar widget that can be collapsed to make more room for the Map widget on the Left.

You will add a Bottom Sidebar widget to house the Table widget which can be collapsed to make more room for the Map widget.

| r Maricopa Historical Aerials v3 county - | | E |
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| E · O C C O Map Widget Bottom Sidebar | Right Sidebar | Map Layers Widget |
| Table Widget | | |

The Bottom Sidebar widget will remain closed by default.

Add the Map Layers Widget

Drag the Map Layers widget over the Right Sidebar.





Align = Full Size





Add the Bottom Sidebar widget

Historical Aerials v3 Draft Lock layout 💽 🔍 Live view 📮 🔲 🚦 1280 × 800 v Insert widget MARICOPA HIStorical Aerials V3 ≔ New ĥ 9 ગ Menu and toolbars B Widget Controller . 😂 Map Layers Column Sideba ction Sectio ustom رچ Simple

Drag the Sidebar widget on bottom left of the page as shown.

Align = Full Size







Select the Sidebar 4 widget from the Page Outline.

Rename the Sidebar 4 widget to Bottom Sidebar

Dock side = **Bottom**

Default state = Collapsed





Change the Button Icon and size.

| Collapse button | |
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| Hover | |

Change the Default Color = **#FAA21B**



Change the Hover Color = **#F26724**



Change the Width and Height of the Collapse button.

Width = **80** Height = **25** Offset Y = **-25**

The negative Offset Y must match the height.

| Backgrou | ind | | | |
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| Offset X | | 0 | | ^ ~ |
| Offset Y | | -25 | | ^ |
| Divider | | | | |

Click anywhere outside the Page.



Save

Publish

View Published Item

https://localhost:3001/experience/2/





Add the Map Widget

Open the Insert Tab.

Drag the Map widget on the top left of the page as shown.



Align = Full Size





Select Map 2 from the Page Outline.



Rename the Map 2 widget = Map



Select Map



At the very bottom, select Add New Data

| Select data $	imes$ | Map ⑦ | | |
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| | Select map | | |
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Open the ArcGIS Online Tab.

Enter Historical Aerials EXB in the Search Box.

Select this Web Map.

Press **Done**.





Click on Historical Aerials EXB to select this Web Map.

This is how the Historical Aerials EXB Web Map will appear.



Set a custom Initial View.



Modify



Modify Initial View.

Pan and zoom to set your initial extents.



OK

Turn on these Map Tools.





Tools Layout and Options.



Keep the defaults.

Configure the Legend Widget

Expand the Widget Controller in the Page Outline and select Legend.

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Select Source = Map

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Configure the Map Layers Widget

Select the Map Layers widget from the Page Outline.

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Select Source = Map



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Enable these Options.

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It is possible to customize this Layer List.

Select Historical Aerials EXB





Let's say you do not want the County Layer to appear on the Layer List.

Uncheck the County Layer.



The County Layer is removed from the Layer List.



Check the County Layer to make it reappear.

Click anywhere outside the Page.

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Save

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Preview published item.

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Turn on the City Layer.

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Expand the Legend Icon next to the City Layer.

Congratulations for making it this far!!

It is all downhill from here. All you need to do is add a few more widgets to complete your Web App.

It is time to take a break.

You will be closing this session and starting up a new one.

Go back to the Experience Builder Home Page.



Close the Experience Builder System Tab.

| Close | |
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Close the npm Server and npm Client Command Windows.

| Close |
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| C:\DAVID\EXB\EXB15\server>npm start |
| <pre>> exb-server@0.1.0 start C:\DAVID\EXB\EXB15\server > cross-env NODE_ENV=production node src/server</pre> |
| <pre>Apps folder: C:\DAVID\EXB\EXB15\server\public\apps Http server running on port 3000 Https server running on port 3001 [Error: ENOTEMPTY: directory not empty, rmdir 'C:\DAVID\EXB\EXB15\server\temp\0\cdn\1\widgets\arcgis s\arcgis-map\src\data-actions'] { errno: -4051, code: 'ENOTEMPTY', syscall: 'rmdir', path: 'C:\DAVID\EXB\EXB15\\server\temp\0\cdn\1\\widgets\\arcgis\\arcgis-map\\src\\data-act ions' } [Error: ENOENT: no such file or directory, copyfile 'C:\DAVID\EXB\EXB15\client\dist\widgets\common\text\dist\runtime\translations\ru.js' -> 'C:\DAVID\EXB\EXB15\server\temp\0\cdn\1\widgets\common\text\\dist\runtime\translations\ru.js'; yscall: 'copyfile', path: 'C:\\DAVID\\EXB\EXB15\\client\\dist\\widgets\\common\\text\\dist\\runtime\\translations\ru , j5', </pre> |
| Close |
| 🖾 webpack – 🗆 🗙 |
| <pre>> node -e "try{require('./_postinstall')}catch(e){}" exit 0</pre> |
| > exb-client@1.12.0 postinstall C:\DAVID\EXB\EXB15\client > npm run lerna-bootstrap |
| > exb-client@1.12.0 lerna-bootstrap C:\DAVID\EXB\EXB15\client > lerna bootstrap |
| lerna notice cli v6.6.1 lerna info Bootstrapping 0 package lerna info Symlinking packages and binaries lerna success Bootstrapped 0 package added 2400 packages in 298.002s |
| C:\DAVID\EXB\EXB15\client>npm start |
| > exb-client@1.12.0 start C:\DAVID\EXB\EXB15\client > cross-env NODE_ENV=development webpackmode developmentwatch |
| Entrypoint widgets/simple/dist/runtime/widget 9.7 KiB = widgets/simple/dist/runtime/widget.js webpack 5.76.3 compiled successfully in 1297 ms |

This concludes **Part-1** of the Experience Builder Developer Edition 1.12 Tutorial.