ArcGIS Experience Builder Developer Edition 1.12 Complete Tutorial – Part4

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Overview

In **Part-4**, you will be adding the two custom widgets for Google Earth and Pictometry. They have been preconfigured. You do not have to write any code.

You will learn how to configure this Web App for medium and small screen sizes.

Finally, you will download the ZIP file and deploy the web application to your web server.

If you do not have a web server, you will learn how to deploy your app to the GitHub Pages by creating a free account.

Add the two custom widgets

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.

📙 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

Navigate to the your-extensions folder.

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

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

There is one sample widget in this folder named simple.

Copy the two custom widgets to the your-extensions folder.

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

📙 get-map-coordinates-class	9/14/2023 9:17 AM	File folder	
get-map-coordinates-class2	9/14/2023 9:17 AM	File folder	
simple	9/4/2023 5:34 PM	File folder	
gitkeep	9/4/2023 5:05 PM	GITKEEP File	0 KB

Examine the contents of **the get-map-coordinates-class** folder

C:\DAVID\EXB\EXB15\client\your-extensions\widgets\get-map-coordinates-class\

src	9/14/2023 9:17 AM	File folder	
jinfos.google3dtxt	9/4/2023 9:16 PM	Text Document	1 KB
🧾 config.json	9/4/2023 9:16 PM	JSON File	1 KB
🞒 icon.svg	9/4/2023 9:16 PM	SVG Document	5 KB
🞒 icon2.svg	9/4/2023 9:16 PM	SVG Document	3 KB
📔 manifest.json	9/4/2023 9:16 PM	JSON File	1 KB
📔 README.md	9/4/2023 9:16 PM	MD File	1 KB

Open manifest.json in Visual Code.

Notice, the label reads "Google Maps"

It is designed for EXB Dev Edition 1.12.0.

This is your fully configured Google Maps Widget.



Examine the contents of **the get-map-coordinates-class2** folder

C:\DAVID\EXB\EXB15\client\your-extensions\widgets\get-map-coordinates-class2\

src	9/14/2023 9:17 AM	File folder	
_infos.google3dtxt	9/4/2023 9:16 PM	Text Document	1 KB
📔 config.json	9/4/2023 9:16 PM	JSON File	1 KB
icon.svg	9/4/2023 9:16 PM	SVG Document	3 KB
📔 manifest.json	9/4/2023 9:16 PM	JSON File	1 KB
🔐 README.md	9/4/2023 9:16 PM	MD File	1 KB

Open manifest.json in Visual Code

This is your fully configured Pictometry Widget.

ß	manifest.jso	n C:\\get-map-coordinates-class {} manifest.json C:\\get-map-coordinates-class2 ×
	:: > david > i	EXB > EXB15 > client > your-extensions > widgets > get-map-coordinates-class2 > {} ma
Q	1 {	
~	2	"name": "get-map-coordinates-class2",
0	3	"label": "Pictometry",
Lo Lo	4	"type": "widget",
	5	"version": "1.7.0",
∠_	6	"exbVersion": "1.12.0",
æ	7	"author": "EsriAU Frederic Poliart",
	8	"description": "This widget displays the latitude/longitude, scale
H H	9	"copyright": "",
	10	"license": "http://www.apache.org/licenses/LICENSE-2.0",
	11	"properties": {},
	12	"translatedLocales": ["en"],
	13	"defaultSize": {
	14	"width": 400,
	15	"height": 30
	16	}
	17 }	
	18	

Start a new Experience Builder Session

Navigate to C:\DAVID\EXB\EXB15

client	9/4/2023 6:54 PM	File folder	
server	9/4/2023 7:57 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

Open the server folder.

Highlight the path and enter cmd



This will open a Command Window with the correct path:



Enter npm start



This starts the npm server process.

	npm server
🖦 npm	
Microsoft Windows [Version 10. (c) Microsoft Corporation. All	0.19045.3324] rights reserved.
C:\DAVID\EXB\EXB15\server≻npm	start
> exb-server@0.1.0 start C:\DA > cross-env NODE_ENV=productio	VID\EXB\EXB15\server n node src/server
Apps folder: C:\DAVID\EXB\EXB1 Http server running on port 30 Https server running on port 3	5∖server∖public∖apps 00 001
-	

Since you have added custom widgets to the your-extensions folder, you must start the npm client process.

Open the client folder.

C:\DAVID\EXB\EXB15\

📙 client	9/4/2023 6:54 PM	File folder	
server	9/4/2023 7:57 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

Highlight the path and enter cmd



This will open a Command Window with the correct path.

Enter <mark>npm start</mark>



Notice, how the npm Client process picks up the two custom widgets you have added.



Open Chrome and enter:

https://localhost:3001

This launches the Experience Builder.

G ArcGIS Experience Builder (Developer Edition)	Experiences Templates	٢
Recent experiences	<u>ب</u>	Import - + Create new
Q Search		Last modified 🗸 🔡 🗄
Published	Published	Published
Historical Aerials v6	Historical Aerials v5	Historical Aerials v4
GIO_DasT 09/14/2023	GIO_DasT 09/13/2023	GIO_DasT 09/05/2023
	[2] ····	[2 …
Published	Published	Published
Historical Aerials v1	Historical Aerials v2	Historical Aerials v3
GIO_DasT 09/05/2023 [GIO_DasT 09/05/2023 [7]	GIO_DasT 09/05/2023 [2]

Create Historical Aerials v7

Duplicate Historical Aerials v6 to create Historical Aerials v7

Published	Published
Historical Aerials v6	Historical Aerials v5
GIO_DasT 09/14/2023	GIO_DasT 09/13/2023
	Duplicate
e Published	Edit info Duplicate Delete Published

Edit Info

•	Draft		•		-	Published
	_					
Historical Aeria	als v6 Copy		Historical	Aeria	als v6	
GIO_DasT			GIO_DasT			
09/14/2023			09/14/2023			
		Dup	olicate			··· ک
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Name = Historical Aerials v7

Edit experience info		\times
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Edit thumbnail		
	OK Cance	ł

Edit Historical Aerials v7

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Edit	500				
Historical A	erials v7	Historical Aerials v6		Historical Aer	ials v5
GIO_DasT 09/14/2023		GIO_DasT 09/14/2023		GIO_DasT 09/13/2023	
	<u> </u>		[2]		<u>ت</u> …

Scroll down.

Your two custom widgets will appear under the Custom Category.



Remember, every time you add Custom Widgets, you must restart the npm Client process.

Open the Page Tab



Open Page



Edit the Subtitle to read v7





Select the Widget Controller from the Page Outline.

Add the Google Maps Custom Widget



Select the Google Maps Widget



Select Map Widget = Map



Save, Publish, View Published Item

3

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https://localhost:3001/experience/6/

Open the Google Maps Widget.

R		8	6 🗧 🔁
	Google Maps	×)	Google Maps
I	Lat/Lon (None - please mouse over r	map)	≡ …
- A	Open Google Maps		=
			≡ …
		Section	≡ …
			≡ …
		Oct	≡ …
HE		Nov	≡ …
A Star	▶ □ 2020 Oct	t - 2020 Nov	≡ …

Notice, it has not picked up the Lat/Lon values yet.

Simply move your mouse over the map. The widget will begin to track the map coordinates.



Open the Google Maps Link



This will launch a separate Google Maps window.

https://www.google.com/maps/@33.44737,-112.07515,66956m/data=!3m1!1e3?entry=ttu

To learn how to use the Google Maps Widget, open the User Guide.

https://daviddas2.github.io/HistoricalAerials/help/google_maps_widget.htm



Parcel (Current)

Add the Pictometry Custom Widget

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		t + Add	d Widget		≡ …
Add widget		×			
Q Search					
Category	All	~			
Card	Embed	Divider			
Menu and toolbars					
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Menu	Share				
Section					
Views Navigation					
Custom					
۲	*	Ţ			
Google Maps	Pictometry	Simple			

Select the Pictometry Widget.



Select Map Widget = Map



Save, Publish, View Published Item

https://localhost:3001/experience/6/

Open the Pictometry Widget.

Move your mouse over the map until you see a Lat/Lon readout.

Open the Pictometry Link.



This will open a separate Pictometry Window.

https://gis.maricopa.gov/pictometry/default.aspx?&qlat=33.44737&qlong=-112.07515

To learn how to use the Pictometry Widget, open the User Guide.

https://daviddas2.github.io/HistoricalAerials/help/pictometry_widget.htm

Historical Aer User Guide	ial Photography Web Application
	Distanta Midant
Overview	Pictometry Widget
Quick Tour	
Launching the Web App	Pictometry Widget
List of Widgets and Tools	Class the Casela Mass Widest
Navigation Iools	Close the Google Maps Widget.
Graphical Scale Bar	Open the Pictometry Widget .
Coordinate Widget	
Search lool	
Identity a Parcel	
Measure Tool	
Draw Widget	County ···
Bookmark Widget	Pictometry
Coordinate Conversion Widget	112 112 112 112 112 112 112 112 112 112
Near Me Widget	059 060 061 062 063 ▷ ✓ Parcel (Current)
Basemap Gallery Widget	
🗄 🐑 Query Widget	You will see this note:
Map Layers Widget	
Legend Widget	Lat/Lon (None – please mouse over the map).
Attribute Table Widget	
Swipe Widget	Pictorester
Google Maps Widget	
Pictometry Widget	Lat/Lon (None - please mouse over map)
About Widget	Open Pictometry
About widget	
Contact Us	

Code Changes for the Google Maps Widget

The Google Maps Widget was created from the Enhanced EXB Coordinate Widget authored by Frederic Poliart, ESRI Australia.

https://community.esri.com/t5/experience-builder-custom-widgets/gh-p/eb-custom-widgets

👰 Enhanced ExB Coordinate widget %🖿	1 4	P 0
Hi, I have create an Enhanced Coordinate Widget display, with quick-link to Google3D V	ery simpl	e (just
drag&drop and link to the map) Works with 2D maps and 3D scenes Shows Zoom level, 3	Scale, Op	otionally
shows Tilt (3D) and rotation Can customize background color How to use download	Vie	w more
Map - Settings Show Zoom C Show State		
POST By FredericPoliart_EsriAU • Occasional Contributor • yesterday		
Labels : custom widgets Experience Builder		

https://community.esri.com/t5/experience-builder-custom-widgets/enhanced-exb-coordinate-widget/m-p/1302310

Home > All Communities > User Groups > Experience Builder Custom Widgets > Questions > Enhanced ExB Coordinate widget

Enhanced ExB Coordinate widget



Post Options

These were the code changes made to create the Google Maps Widget.

Edit manifest.json

C:\DAVID\EXB\Experience Builder Docs\Custom Widgets\Google Maps Widget\get-mapcoordinates-class\

src	7/27/2023 1:27 PM	File folder	
_infos.google3dtxt	6/23/2023 10:14 AM	Text Document	1 KB
📔 config.json	6/23/2023 10:14 AM	JSON File	1 KB
icon.svg	7/27/2023 12:24 PM	SVG Document	5 KB
icon2.svg	7/27/2023 12:27 PM	SVG Document	3 KB
📔 manifest.json	6/23/2023 10:14 AM	JSON File	1 KB
Z README.md	6/23/2023 10:14 AM	MD File	1 KB

Label = Google Maps

Exb Version = 1.12.0

```
曰{
1
        "name": "get-map-coordinates-class",
 2
        "label": "Google Maps",
 3
        "type": "widget",
4
        "version": "1.7.0",
 5
        "exbVersion": "1.12.0",
 6
        "author": "EsriAU Frederic Poliart",
 7
        "description": "This widget displays the latitude/longitude, scale, zoom ,
 8
        tilt & ink to GOogle3D.",
        "copyright": "",
9
        "license": "http://www.apache.org/licenses/LICENSE-2.0",
10
        "properties": {},
11
        "translatedLocales": ["en"],
12
        "defaultSize": {
13
    E
          "width": 400,
14
15
          "height": 30
16
        }
17
     L}
18
```

Change icon.svg

src .	7/27/2023 1:27 PM	File folder	
_infos.google3dtxt	6/23/2023 10:14 AM	Text Document	1 KB
📔 config.json	6/23/2023 10:14 AM	JSON File	1 KB
🖉 icon.svg	7/27/2023 12:24 PM	SVG Document	5 KB
icon2.svg	7/27/2023 12:27 PM	SVG Document	3 KB
📔 manifest.json	7/27/2023 1:48 PM	JSON File	1 KB
🖹 README.md	6/23/2023 10:14 AM	MD File	1 KB



This is icon2.svg



Edit widget.tsx

C:\DAVID\EXB\Experience Builder Docs\Custom Widgets\Google Maps Widget\get-mapcoordinates-class\src\runtime

assets	7/27/2023 1:27 PM	File folder	
translations	7/27/2023 1:27 PM	File folder	
📄 widget.tsx	6/23/2023 10:14 AM	TSX File	10 KB

Examine Line 142



This is how the Google3D URL is constructed.

Google3dUrl : "https://www.google.com/maps/place/@"+ this.state.latitude +","+ this.state.longitude +",251a,35y,"+this.state.rotation+"h,0t/data=!3m1!1e3";

This is repeated in Line 148, 199, 207

If you want to change this Widget to make it work for Pictometry, you would have to change these 3 lines as well.

Edit widget.tsx

Before:



After:





Center the Paragraph.

Add 2 line breaks.





Edit defaults.ts

C:\DAVID\EXB\Experience Builder Docs\Custom Widgets\Google Maps Widget\get-mapcoordinates-class\src\runtime\translations\



Change Widget Label = Google Maps



Note: This is just for your reference. You do not have to change any code. This has already been done for you.

Code Changes for the Pictometry Widget

The Pictometry Widget is a copy of the Google Maps Widget with the following changes.

Copy get-map-coordinates-class to create get-map-coordinates-class2

C:\DAVID\EXB\Experience Builder Docs\Custom Widgets\Pictometry Widget\

These are your files:

C:\DAVID\EXB\Experience Builder Docs\Custom Widgets\Pictometry Widget\get-mapcoordinates-class2\

src	7/27/2023 1:27 PM	File folder	
_infos.google3dtxt	7/26/2023 9:36 AM	Text Document	1 KB
🥁 config.json	7/26/2023 9:36 AM	JSON File	1 KB
🞒 icon.svg	7/27/2023 12:19 PM	SVG Document	3 KB
📔 manifest.json	7/27/2023 11:52 AM	JSON File	1 KB
README.md	7/26/2023 9:36 AM	MD File	1 KB

Edit manifest.json

Change the name = get-map-coordinates-class²

Change the label = **Pictometry**

Exb Version = 1.12.0



Change the icon.svg

src src	7/27/2023 1:27 PM	File folder	
_infos.google3dtxt	7/26/2023 9:36 AM	Text Document	1 KB
📔 config.json	7/26/2023 9:36 AM	JSON File	1 KB
🛃 icon.svg	7/27/2023 12:19 PM	SVG Document	3 KB
📔 manifest.json	7/27/2023 11:52 AM	JSON File	1 KB
📔 README.md	7/26/2023 9:36 AM	MD File	1 KB


Edit widget.tsx

C:\DAVID\EXB\Experience Builder Docs\Custom Widgets\Pictometry Widget\get-mapcoordinates-class2\src\runtime\

assets	7/27/2023 1:27 PM	File folder	
h translations	7/27/2023 1:27 PM	File folder	
widget.tsx	7/27/2023 11:31 AM	TSX File	10 KB

Edit Line 142

141			// Altitude will be incorrect/inaccurate
142			<pre>Google3dUrl : "//gis.maricopa.gov/pictometry/default.aspx?" +</pre>
			<pre>"&qlat=" + this.state.centroidlatitude +"&qlong="+ this.state.</pre>
			centroidlongitude ;
143	-		})

Google3dUrl : "//gis.maricopa.gov/pictometry/default.aspx?" + "&qlat=" + this.state.centroidlatitude +"&qlong="+ this.state.centroidlongitude ;

Do the same for Line 149



Do the same for Line 199



Do the same for Line 207



Edit widet.tsx

Before:



After:





Edit default.ts

C:\DAVID\EXB\Experience Builder Docs\Custom Widgets\Pictometry Widget\get-mapcoordinates-class2\src\runtime\translations



Change Widget Label = Pictometry



Note: This is just for your reference. You do not have to change any code. This has already been done for you.

Reorder the Widgets in the Widget Controller

Before:



After:

Drag the Print Widget to the right of the Pictometry Widget.



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Save, Publish, View Published Item.

https://localhost:3001/experience/6/

MARICOPA	Historical Aerials v7	1	🥺 💾 👶 📈 😂 🛩	8	<u>(</u>
+ 301 W J	efferson St 85 Q		County	≡	
- 1		1 The Manual I and the	▶		
	Query X		Parcel (Current)		
S Alley Pk	Parcel >	101	D Zip Code		
- Jake	Subdivision >		▶ □ City		
	ZIP Code >		▷ □ Township Range Section		
Fra	City >	51	▷ 🗹 Street	≡	
	Township, Range, Section		▶ 🗹 2022 Sep - 2022 Oct	Ξ	
			▶ 2021 Sep - 2021 Nov		
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and the second	- The Contraction	A BOARD REAL PROPERTY	▶ 2018 Sep - 2018 Dec		
19 -	In Alexander The		▶ 2017 Sep - 2017 Nov		
			▶ □ 2016 Sep - 2016 Dec		
and the			▶ 2015 Nov - 2016 Feb		
-X 5: 3		347	▷ □ 2014 Sep - 2014 Nov		
Cales 1		Pinal County 87	▶ 2013 Sep - 2013 Nov		
10 km		Esri, HERE, Garmin NGA, DSGS, NPS, Powered	d by Esri		

Go back to the Home Page.



Create Historical Aerials v8

Duplicate Historical Aerials v7 to create Historical Aerials

	Published	Published
	f and a	
Historical Aerials v7	7	Historical Aerials v6
GIO_DasT		GIO_DasT
09/14/2023		09/14/2023
	Ľ	Duplicate
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Edit Info

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Historical Aerials v7 Copy	Historical Aerials v7
GIO_DasT	GIO_DasT
09/14/2023	09/14/2023
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	Edit info

Name = Historical Aerials

Summary = Configure for Medium and Small Screen Devices

Edit experience info				×
		Name Historical Aerials Summary Configure for M Devices	s v8 Aedium and Sma	Il Screen
Edit thumbna	il			
			ОК	Cancel

Edit Historical Aerials v8

Edit	Draft	Publish	ed	Published
Historical Aerials	s v8	Historical Aerials v7	His	storical Aerials v6
GIO_DasT		GIO_DasT	GIC	D_DasT
GIO_DasT 09/14/2023		GIO_DasT 09/14/2023	GIC 09/	D_DasT /14/2023

Open the Page Tab



Open Page



Delete the Subtitle





Configure the App for Large Screen Devices.

So far, you have configured your app for large screen devices.



The Query Widget is open by default.

Select the Widget Controller from the Page Outline.



Widget Controller (?)						
Content	Style					
Direction	↔	\$				
Behavior						
How many widgets can be	e opene	d				
O Single						
Multiple						
Open widgets on loading						
1 widgets selected		~				
Display type						
O Stack						
🔘 Side by side						

Uncheck Query.

No widget will be open by default.

Open widgets on loading	
0 widgets selected	Ý
Query	
Legend	
Swipe	
Basemap Gallery	
Draw	
🔲 Bookmark	
🔲 Near Me (Beta)	
Coordinate Conversion	
Google Maps	
Pictometry	
Print	



Configure the App for Medium Screen devices

	Lock layout 🌘	O Live view	0 600 ×	1024▼	•
Histori	cal Aerials	ium Screen Devices)=	Auto Custom	

First, click on **Auto**. Next, click on **Custom**.

E	Auto Custom	
Are you sure you want to enable By enabling custom, you can manual device mode. However, widgets added in other dev automatically added here. Alternative	ole it? ly arrange widget vice modes will no ely, you can manu	s for this ot be ally add them
from the pending list on the Insert pa	OK	Cancel

ΟК

Here is how it looks.

Notice, the widgets are overflowing the space for the Logo and Title.

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¥i 301 W Jefferson 😝	Þ 🗹 County	≡ …	Custom
The second	► Terrain (NAVD88)	=	
	Parcel (Current)	≡ …	
	▶ 🗌 Zip Code	=	
	▷ □ City	≡	

The easiest way to fix this is not to show the Logo and Title for medium screen devices. This applies to tablets in Portrait Mode.

Move the Logo to the Pending List.

— Outline	Q	
Body	^	
∨ 🖫 Fixed Panel		
🛛 Logo		
⊡ Title	Rena	ame
> 🕅 Widget Controller	Dup	licate
ਯ Button 2	Dele	te
> 🗔 Right Sidebar	Mov	e to the pending list
	Lock	position and size
	Arra	nge >
	Alig	n >

Move the Title to the Pending List.

— Outline	Q	
Body	^	
∨ 🖫 Fixed Panel		
⊤ Title		
> 🖾 Widget Controller	Rena	ame
⊌ Button 2	Dup	licate
> 🔲 Right Sidebar	Dele	ete
	Mov	e to the pending list
	Lock	position and size
	Arra	nge >
	Alig	n >

This gives you a cleaner look.



Save, Publish, View Published Item.

https://localhost:3001/experience/7/

On large screens, you get to see the Fixed Panel with the Logo and Title.

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9 - 841			and	▶ □ Terrain (NAVD88)		
ANI				Parcel (Current)		
			The state	▷ 🗌 Zip Code		
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				▷ 🗌 2021 Sep - 2021 Nov		
XAI				▷		
ACE/				▷ 🗌 2019 Sep - 2019 Dec		
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a ×	Pinal County	347		▷		
5 km		au of Land Management, Esri, HERE,	Garmin N. Powered by Esri	2009 May - 2009 Jun		

Reduce the width.

On medium screen devices, the Logo and Title are dropped.

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5 km -+111.9 624507 De	▷ 🗌 2013 Sep - 2013 Nov		

Configure the App for Small Screen Devices



First, click on **Auto**.



Next, click on **Custom**.

🖪 ar 💩 🗛 📈 Sti 📚 al 🛩 ria 🖶	(i) Auto Custom
Dounty	≡ ·· •
▶	≡
Are you sure you want to enable it? By enabling custom, you can manually arrang device mode. However, widgets added in other device mod automatically added here. Alternatively, you of from the pending list on the Insert panel.	ge widgets for this des will not be can manually add them OK Cancel

OK

Notice, there is not enough space for the Logo, Title and all the widgets.



Move the Logo to the Pending List.



Move the Title to the Pending List.



Expand the Outline for the Widget Controller.



Move the following widgets to the Pending List.

- Legend
- Basemap Gallery
- Draw
- Bookmark
- Near Me
- Coordinate Conversion



Lock layout 💽 🛛 Live view 🔲 🔲 🚺	360 × 720 ▼
	(i) Auto
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City	≡
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▷ 🗌 2021 Sep - 2021 Nov	≡
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This will leave you will these 6 important widgets on the fixed panel in small screen mode.

Save, Publish, View Published Item.

https://localhost:3001/experience/7/

Make the window narrow.

This is what you will see.

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Can the Right Sidebar be made narrower to show more of the map?

Yes, you can do that by not showing the Legend Icon.

Select **Map Layers** from the Page Outline.



Do not show the Legend.



Select the Right Sidebar from the Page Outline.



Reduce the width of the Right Sidebar to 300 pixels.



This looks better.

	5 (d) 🥹 🛩	a (j	Auto
			Custom
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the second	▶ 🗌 Terrain (NAVD88)		
1 A	▶ □ Parcel (Current)		
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Save, Publish, View Published Item.

https://localhost:3001/experience/7/

Here is how your app will appear on large screen devices.

MARCOPA	Historical Aerials 🛛 🔤 👜	8 🕫 😫 🖉 👻	
301 W _	lefferson St 85 Q	County	
		D Terrain (NAVD88)	
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0 (i) 301 W Jefferson St 85.. Q De County ... <+ → 10000 ... ▷ □ Parcel (Current) ... ▷ 🗌 Zip Code ▷ □ City 51 ▷
 Township Range Section ••• ▷ 🗹 Street ... 60 ▷ 🗹 2022 Sep - 2022 Oct ... 1.19 ▷ 2021 Sep - 2021 Nov ... N. 100 100 D 2020 Oct - 2020 Nov 四國部 ... 202 ▷ 2019 Sep - 2019 Dec ... ▷ 2018 Sep - 2018 Dec ▷ 2017 Sep - 2017 Nov ▷ 2016 Sep - 2016 Dec 60 ... ▷ 2015 Nov - 2016 Feb ... D 2014 Sep - 2014 Nov ... ▷ 2013 Sep - 2013 Nov ... ▷ 2012 Oct - 2012 Dec ... ▷ 2011 Sep - 2011 Oct ... G 2010 Sep - 2010 Oct ... 347 0 ▷ 2010 Jun - 2010 Sep Statewide ... t the coordinates the 1

Here is how your app will appear on medium screen devices.

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301 W Jefferson S	Dev County	
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85	▷ 🗌 2020 Oct - 2020 Nov	
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and the second second	▷ 🗌 2016 Sep - 2016 Dec	
+	▷ 🗌 2015 Nov - 2016 Feb	
	▷ 🗌 2014 Sep - 2014 Nov	
all	▷ 🗌 2013 Sep - 2013 Nov	
5 km	▶ 🗌 2012 Oct - 2012 Dec	

Here is how your app will appear on small screen devices.

You are ready to download the ZIP file of your EXB project.

Download the ZIP file of your EXB Project

Go back to the Home Page.

Download the ZIP File for Historical Aerials v8

•	Published		•		Published
Historical Aeria	als v8		Historical	Aerials	v7
GIO_DasT			GIO_DasT		
09/14/2023			09/14/2023		
	Ľ	Dup	olicate		 为
		Edit	t info		
o ——	Published	Del	ete		Published

https://localhost:3001/download/7?locale=en-

us&token=ObmnDAQphZtCGgrq5llnBhg2L6sAibCBsCD1N5BtKRVijK7g5D7CpBu7xXiHyZrW8kLjN_j BTrZQVdKc6sGCQ_d_x_6i0xM1qvQrcA7-

oAAPDE3KoP7MBE8dqabcaLRvM30s1Y2yt PfaGyCptsaT25 gVejxildawEFJsWs4rHIo29ljaqLqFlF6 ONi6gp1SdKG4 8loawlt1YgnBlXDHZyAWGdMoeMP0bVE t9LI. This will open a tab saying Loading...



If you are lucky, you will get a ZIP file in your downloads folder.

However, you are most likely to get this error message:

Not found.



Do not panic!

Next, you will learn how to manually assemble the necessary files to deploy your Web app.
Close the Experience Builder System Tab.



Close the Command Window running the npm Client.



Close the Command Window running the npm Server.



Restart the npm Server process.



There is no need to restart the npm Client process.

Launch Firefox.

Note: Do not use Chrome.

https://localhost:3001



Sign In

EXB Clie	nt ID wants to access your ArcGIS	Online account information 🥐
Si	gn in to Maricopa Cou nterprise GIS	nty @esri
	GIO_DasT	
	Sign In Forgot username? or For	Cancel
		<u>Privacy</u>

Do not start the download yet!

Q Search				
•	Published		•	
_				
Historical Aeri	als v8		Historical A	erials v7
GIO_DasT			GIO_DasT	
09/14/2023			_ 09/14/2023	
	Ľ	Dup	olicate	
		Edit	t info	
•	Published	Del	ete	
		Dov	wnload	

Navigate to the apps folder.

C:\DAVID\EXB\EXB15\server\public\apps\

0	9/4/2023 7:26 PM	File folder
<mark></mark> 1	9/4/2023 8:52 PM	File folder
2	9/4/2023 11:27 PM	File folder
3	9/5/2023 10:51 AM	File folder
4	9/6/2023 9:27 AM	File folder
5	9/13/2023 8:38 PM	File folder
6	9/14/2023 9:49 AM	File folder
7	9/14/2023 12:32 PM	File folder

These are the 8 iterations of your Historical Aerials App counting from 0 through 7.

Navigate to:

C:\DAVID\EXB\EXB15\server\public\apps\7

Delete download-times.json

resources	9/14/2023 11:14 AM	File folder	
📔 config.json	9/14/2023 12:19 PM	JSON File	203 KB
📔 download-times.json	9/14/2023 12:32 PM	JSON File	1 KB
📔 info.json	9/14/2023 12:19 PM	JSON File	1 KB

Navigate to the temp folder.

C:\DAVID\EXB\EXB15\server\temp

0	9/4/2023 7:59 PM	File folder
7	9/14/2023 12:31 PM	File folder

This is where all the temporary files are written before the final ZIP file can be created.

Examine the files that were written before the download process failed in your first attempt.

C:\DAVID\EXB\EXB15\server\temp\7

cdn 9/14/2023 12:29 PM File folder	
------------------------------------	--

C:\DAVID\EXB\EXB15\server\temp\7\cdn\

1	9/14/2023 12:31 PM	File folder

C:\DAVID\EXB\EXB15\server\temp\7\cdn\1\

arcgis-charts	9/14/2023 12:31 PM	File folder	
calcite-components	9/14/2023 12:31 PM	File folder	
resources	9/14/2023 12:31 PM	File folder	
hemes	9/14/2023 12:31 PM	File folder	
📊 widgets	9/14/2023 12:31 PM	File folder	
📔 config.json	9/14/2023 12:31 PM	JSON File	203 KB

Notice, there is a config.json file here.

Navigate to:

C:\DAVID\EXB\EXB15\server\temp\7\cdn\1\resources\config



There is a second config.json file here.

Why does the Experience Builder have 2 config.json files?

Jianxia Song was kind enough to explain the reason.

The ArcGIS Experience Builder supports <u>draft and published status</u> so you can test changes in the app without affecting the published live app. As such, two config JSON files are available.

https://doc.arcgis.com/en/experience-builder/latest/build-apps/save-previewpublish.htm

As you noticed, one is under the **resources** folder while the other is under the **data** folder. The published config.json is under the data folder while the draft config.json is under the resources folder.

If you want to see the changes in the live app, update the published config.json file under the data folder.

If you want to see the changes in the builder, update the draft config.json file under the resources folder.

For web experience items created in ArcGIS Online and ArcGIS Enterprise, the published config json is stored in the data folder. However, for the app created with the developer edition, the published config file is in the cdn/[app number] directly.

Hope this helps.

Jianxia

You have a partial download in the temp folder.

C:\DAVID\EXB\EXB15\server\temp\7

📙 cdn	9/14/2023 12:29 PM	File folder	
Make a new folder named Historical	Aerials8		
C:\DAVID\PROJECTS\HistoricalAerials	58		
Copy the cdn folder here.			
📙 cdn	9/14/2023 1:19 PM	File folder	

Delete this folder.

C:\DAVID\EXB\EXB15\server\temp\



Start the Download Process.

Published	•
Historical Aerials v8	Historical Aerials v
GIO_DasT	GIO_DasT
09/14/2023	09/14/2023
L	Duplicate
	Edit info
e	Delete
	Download

Monitor the temporary files being writing to:

C:\DAVID\EXB\EXB15\server\temp\

C:\DAVID\EXB\EXB15\server\temp\<mark>7</mark>

📙 cdn	9/14/2023 1:23 PM	File folder	
🧧 index.html	9/14/2023 1:23 PM	Firefox HTML Doc	5 KB
service-worker.js	9/4/2023 4:52 PM	JavaScript Source	10 KB
web.config	9/4/2023 4:57 PM	Configuration Sou	2 KB

C:\DAVID\EXB\EXB15\server\temp\7\cdn\1

assets	9/14/2023 1:23 PM	File folder	
calcite-components	9/14/2023 1:23 PM	File folder	
📙 jimu-arcgis	9/14/2023 1:23 PM	File folder	
📙 jimu-core	9/14/2023 1:23 PM	File folder	
📙 jimu-for-builder	9/14/2023 1:23 PM	File folder	
📙 jimu-layouts	9/14/2023 1:23 PM	File folder	
📙 jimu-theme	9/14/2023 1:23 PM	File folder	
📙 jimu-ui	9/14/2023 1:23 PM	File folder	
index.js	9/4/2023 4:57 PM	JavaScript Source	41 KB
service-worker-registration.js	9/14/2023 1:23 PM	JavaScript Source	1 KB

Keep refreshing this folder.

Stop the download process the moment the **widgets** folder gets written.

 $C:\DAVID\EXB\EXB15\server\temp\7\cdn\1\$

arcgis-charts	9/14/2023 1:25 PM	File folder	
assets	9/14/2023 1:23 PM	File folder	
dalcite-components	9/14/2023 1:23 PM	File folder	
📊 jimu-arcgis	9/14/2023 1:23 PM	File folder	
📊 jimu-core	9/14/2023 1:23 PM	File folder	
📊 jimu-for-builder	9/14/2023 1:23 PM	File folder	
📊 jimu-layouts	9/14/2023 1:23 PM	File folder	
📊 jimu-theme	9/14/2023 1:23 PM	File folder	
📊 jimu-ui	9/14/2023 1:23 PM	File folder	
hemes	9/14/2023 1:24 PM	File folder	
📊 widgets	9/14/2023 1:25 PM	File folder	
📧 index.js	9/4/2023 4:57 PM	JavaScript Source	41 KB
service-worker-registration.js	9/14/2023 1:23 PM	JavaScript Source	1 KB



Note: If you wait too long, the process will fail and most of your temporary files will begin to get deleted.

Examine the temporary files under:

C:\DAVID\EXB\EXB15\server\temp\7\

📊 cdn	9/14/2023 1:23 PM	File folder	
🧧 index.html	9/14/2023 1:23 PM	Firefox HTML Doc	5 KB
service-worker.js	9/4/2023 4:52 PM	JavaScript Source	10 KB
• web.config	9/4/2023 4:57 PM	Configuration Sou	2 KB

Copy the highlighted files to:

C:\DAVID\PROJECTS\HistoricalAerials8\

📙 cdn	9/14/2023 1:19 PM	File folder	
🧧 index.html	9/14/2023 1:23 PM	Firefox HTML Doc	5 KB
service-worker.js	9/4/2023 4:52 PM	JavaScript Source	10 KB
web.config	9/4/2023 4:57 PM	Configuration Sou	2 KB

Open the cdn1 folder.

C:\DAVID\PROJECTS\HistoricalAerials8\cdn\1\

Delete everything except config.json

📙 arcgis-charts		9/14/2023 1:19 PM	File folder	
📙 calcite-compo	nents	9/14/2023 1:19 PM	File folder	
resources		9/14/2023 1:19 PM	File folder	
hemes		9/14/2023 1:19 PM	File folder	
widgets		9/14/2023 1:20 PM	File folder	
📓 config.json		0.44.4000000	ICON File	203 KB
	Delete everythir	ng except config.	json	

Copy these files from:

$C:\DAVID\EXB\EXB15\server\temp\7\cdn\1$

arcgis-charts	9/14/2023 1:25 PM	File folder	
assets	9/14/2023 1:23 PM	File folder	
calcite-components	9/14/2023 1:23 PM	File folder	
📊 jimu-arcgis	9/14/2023 1:23 PM	File folder	
📊 jimu-core	9/14/2023 1:23 PM	File folder	
📊 jimu-for-builder	9/14/2023 1:23 PM	File folder	
📊 jimu-layouts	9/14/2023 1:23 PM	File folder	
📊 jimu-theme	9/14/2023 1:23 PM	File folder	
📊 jimu-ui	9/14/2023 1:23 PM	File folder	
hemes	9/14/2023 1:24 PM	File folder	
widgets	9/14/2023 1:25 PM	File folder	
ıs index.js	9/4/2023 4:57 PM	JavaScript Source	41 KB
service-worker-registration.js	9/14/2023 1:23 PM	JavaScript Source	1 KB

To:

C:\DAVID\PROJECTS\HistoricalAerials8\cdn\1

arcgis-charts	9/14/2023 1:38 PM	File folder	
assets	9/14/2023 1:38 PM	File folder	
calcite-components	9/14/2023 1:40 PM	File folder	
📙 jimu-arcgis	9/14/2023 1:40 PM	File folder	
jimu-core	9/14/2023 1:40 PM	File folder	
📊 jimu-for-builder	9/14/2023 1:40 PM	File folder	
📙 jimu-layouts	9/14/2023 1:40 PM	File folder	
📊 jimu-theme	9/14/2023 1:40 PM	File folder	
📙 jimu-ui	9/14/2023 1:40 PM	File folder	
themes	9/14/2023 1:40 PM	File folder	
widgets	9/14/2023 1:40 PM	File folder	
🥁 config.json	9/14/2023 1:25 PM	JSON File	203 KB
ıs index.js	9/4/2023 4:57 PM	JavaScript Source	41 KB
service-worker-registration.js	9/14/2023 1:23 PM	JavaScript Source	1 KB

Examine the widgets folder:

C:\DAVID\PROJECTS\HistoricalAerials8\cdn\1\widgets\

It has both your Custom Widgets.

🔒 arcgis	9/14/2023 1:40 PM	File folder	
chunks	9/14/2023 1:40 PM	File folder	
📙 common	9/14/2023 1:40 PM	File folder	
📙 get-map-coordinates-class	9/14/2023 1:40 PM	File folder	
get-map-coordinates-class2	9/14/2023 1:40 PM	File folder	
layout	9/14/2023 1:40 PM	File folder	
🥁 widgets-info.json	9/14/2023 12:29 PM	JSON File	176 KB

The only folder you are missing is the resources folder under:

C:\DAVID\PROJECTS\HistoricalAerials8\cdn\1

Copy the resources folder from:

C:\DAVID\EXB\EXB15\server\public\apps\7

resources	9/14/2023 11:14 AM	File folder	
📔 config.json	9/14/2023 12:19 PM	JSON File	203 KB
📓 download-times.json	9/14/2023 1:26 PM	JSON File	1 KB
📔 info.json	9/14/2023 12:19 PM	JSON File	1 KB

To:

C:\DAVID\PROJECTS\HistoricalAerials8\cdn\1\

arcgis-charts	9/14/2023 1:38 PM	File folder	
assets	9/14/2023 1:38 PM	File folder	
alcite-components	9/14/2023 1:40 PM	File folder	
📙 jimu-arcgis	9/14/2023 1:40 PM	File folder	
📊 jimu-core	9/14/2023 1:40 PM	File folder	
📊 jimu-for-builder	9/14/2023 1:40 PM	File folder	
📊 jimu-layouts	9/14/2023 1:40 PM	File folder	
📊 jimu-theme	9/14/2023 1:40 PM	File folder	
📊 jimu-ui	9/14/2023 1:40 PM	File folder	
resources	9/14/2023 1:46 PM	File folder	
hemes	9/14/2023 1:40 PM	File folder	
widgets	9/14/2023 1:40 PM	File folder	
🥁 config.json	9/14/2023 1:25 PM	JSON File	203 KB
index.js	9/4/2023 4:57 PM	JavaScript Source	41 KB
service-worker-registration.js	9/14/2023 1:23 PM	JavaScript Source	1 KB

These are all the files and folders you need to deploy your web app.

Deploy to a Web Server

Move the Historical Aerials8 folder to your Web Server.

C:\inetpub\wwwroot\maps\HistoricalAerials8\

	9/14/2023 1:54 PM	File folder	
🞒 index.html	9/14/2023 1:23 PM	HTML Document	5 KB
📓 service-worker.js	9/4/2023 4:52 PM	JavaScript File	10 KB
web.config	9/4/2023 4:57 PM	CONFIG File	2 KB

Launch your Web App:

https://gisdevweb.maricopa.gov/maps/HistoricalAerials8/

MARICOPA HISTOFICAL Aerials	R 🗉 🕅 🎛 🕫	. 🗉 💩 🛤 🔗 🍝	a
+ 301 W Jefferson St 85 Q		👂 🗹 County	
		Terrain (NAVD88)	
		▶ □ Parcel (Current)	
60		▷ 🗌 Zip Code	
	51	▷ □ City	
		▷ 🗌 Township Range Section	
		⊳ 🗹 Street	
		▷ 🗹 2022 Sep - 2022 Oct	
10		▷ 🗌 2021 Sep - 2021 Nov	
		▷ 🗌 2020 Oct - 2020 Nov	
		▷ 🗌 2019 Sep - 2019 Dec	
		▷ 🗌 2018 Sep - 2018 Dec	
	60, 87	▶ 🗌 2017 Sep - 2017 Nov	•••
		▷ 🗌 2016 Sep - 2016 Dec	
		▷ 🗌 2015 Nov - 2016 Feb	
		▷ 🗌 2014 Sep - 2014 Nov	
		▷ 🗌 2013 Sep - 2013 Nov	
	T	▷ 🗌 2012 Oct - 2012 Dec	
5 km 5 mi -+111.798780 33.408684 De∄HX.G	15 anix Burdu of Land Managanent Earl HERE Co Powered by Esr	▷ 🗌 2011 Sep - 2011 Oct	

How to Publish a Website on GitHub Pages

If you do not have ready access to a Web Server, there is yet another way to test your website and verify if everything is working properly under different browsers and screen sizes.

You can publish your website to GitHub pages by creating a free account.

As an added bonus, the SSL Certificate for your website comes for free.

First, you must install Git on your PC.

Install Git on your PC

Important: Before you install Git, make sure you have Microsoft .NET Framework 4.8 installed. The Git Credential Manager needs Microsoft .NET Framework 4.76 or higher.

Download Git version 2.42 for Windows 64-bit:

https://github.com/git-for-windows/git/releases/download/v2.42.0.windows.2/Git-2.42.0.2-64-bit.exe

🚸 Git-2.42.0.2-64-bit.exe	9/2/2023 1:09 PM	Application	59,829 KB
Install Git			
🚸 Git 2.42.0.2 Setup		- 🗆 X	
Information Please read the following importan	nt information before continuing.	*	
When you are ready to continue v	vith Setup, dick Next.		
GNU Gener	ral Public Licen	se	
Vers	sion 2, June 1991		
Copyright (C) 1969, 1991 Free So 59 Temple Place - Suite 330, Bos	ftware Foundation, Inc. ton, MA 02111-1307, USA		
Everyone is permitted to copy an of this license document, but ch	d distribute verbatim copies anging it is not allowed.		
	Preamble		
The licenses for most softwork freedom to share and change License is intended to quara	ware are designed to take aw ge it. By contrast, the GNU G ntee vour freedom to share	vay your eneral Public and chance 🌱	
https://gitforwindows.org/	Ne	xt Cancel]

Install Folder = C:\Program Files\Git

🚸 Git 2.42.0.2 Setup		_		×
Select Destination Location Where should Git be installed?				>
Setup will install Git into the followin	ng folder.			
To continue, click Next. If you would like to s	elect a differen	t folder, click Bro	owse.	
C:\Program Files\Git		В	rowse	
At least 321.5 MB of free disk space is requir	red.			
https://gitforwindows.org/				
	Back	Next	Cancel	
Git 2.42.0.2 Setup Select Components Which components should be installed?		_		×
Select the components you want to install; d install. Click Next when you are ready to con	lear the compon ntinue.	ents you do no	t want to	
Additional icons Additional icons On the Desktop Windows Explorer integration Open Git Bash here Git LFS (Large File Support) Associate .git* configuration files with th Associate .sh files to be run with Bash Check daily for Git for Windows updates (NEW!) Add a Git Bash Profile to Window	he default text o	editor	* *	
https://gitforwindows.org/	of disk space.			
	Back	Next	Cancel	

Git 2.42.0.2 Setup	_		×
Select Start Menu Folder Where should Setup place the program's shortcuts?			>
Setup will create the program's shortcuts in the following Start	Menu	folder.	
To continue, click Next. If you would like to select a different folder, clic	k Brow	se.	_
Git	Brow	wse	
Don't create a Start Menu folder			
Back Next		Can	cel

Note: Do not use the default Vim Editor!

🚸 G	it 2.42.0.2 Setup —		×
Ch	oosing the default editor used by Git Which editor would you like Git to use?		>
	Use Vim (the ubiquitous text editor) as Git's default editor	~	
	The <u>Vim editor</u> , while powerful, <u>can be hard to use</u> . Its user interface is unintuitive and its key bindings are awkward.		
	Note: Vim is the default editor of Git for Windows only for historical reas it is highly recommended to switch to a modern GUI editor instead.	ons, and	I
	Note: This will leave the 'core.editor' option unset, which will make Git fa to the 'EDITOR' environment variable. The default editor is Vim - but you may set it to some other editor of your choice.	ll back J	
https:/	/gitforwindows.org/Back Next	Can	cel

Use Visual Studio Code as Git's default editor.

	_		\times
Chaosing the default editor used by Cit			
Which editor would you like Git to use?		•	
Use Vim (the ubiquitous text editor) as Git's default editor		~	
Use Vim (the ubiquitous text editor) as Git's default editor		^	
Use Visual Studio Code as Git's default editor			
Use Visual Studio Code Insiders as Git's default editor			1
Use Sublime Text as Git's default editor			
Use Atom as Git's default editor			
Use Notepad as Git's default editor		~	
may set it to some other editor of your choice.			
https://aitforwipdows.org/			
nccps//giclorwindows.org/			
Back	Next	Can	cel
Git 2.42.0.2 Setup Choosing the default editor used by Git Which editor would you like Git to use?	_		×
Use Visual Studio Code as Git's default editor		~	
Use Visual Studio Code as Git's default editor <u>Visual Studio Code</u> is an Open Source, lightweight and po running as a desktop application. It comes with built-in su TypeScript and Node.js and has a rich ecosystem of exte languages (such as C++, C#, Java, Python, PHP, Go) ar .NET and Unity). (WARNING!) This will be installed only for this user.	werful editor Ipport for Jav Insions for ot Ind runtimes (s	v aScript, ner such as	
Use Visual Studio Code as Git's default editor <u>Visual Studio Code</u> is an Open Source, lightweight and po running as a desktop application. It comes with built-in su TypeScript and Node.js and has a rich ecosystem of exter languages (such as C++, C#, Java, Python, PHP, Go) ar .NET and Unity). (WARNING!) This will be installed only for this user. Use this option to let Git use Visual Studio Code as its def	werful editor ipport for Jav insions for ott nd runtimes (s ault editor,	aScript, her such as	•
Use Visual Studio Code as Git's default editor <u>Visual Studio Code</u> is an Open Source, lightweight and po running as a desktop application. It comes with built-in su TypeScript and Node.js and has a rich ecosystem of exte languages (such as C++, C#, Java, Python, PHP, Go) ar .NET and Unity). (WARNING!) This will be installed only for this user. Use this option to let Git use Visual Studio Code as its def	werful editor ipport for Jav insions for oth nd runtimes (s	vaScript, ner such as	
Use Visual Studio Code as Git's default editor <u>Visual Studio Code</u> is an Open Source, lightweight and po running as a desktop application. It comes with built-in su TypeScript and Node.js and has a rich ecosystem of exte languages (such as C++, C#, Java, Python, PHP, Go) ar .NET and Unity). (WARNING!) This will be installed only for this user. Use this option to let Git use Visual Studio Code as its def https://gitforwindows.org/	werful editor ipport for Jav insions for ot nd runtimes (s	vaScript, ner such as	

🪸 Git 2.4	2.0.2 Setup		_		×
Adjust Wha	ing the name of the initial bra t would you like Git to name the in	a nch in new reposit itial branch after ["] git ir	ories nit"?		
۲	Let Git decide				
	Let Git use its default branch nar in newly created repositories. Th a more inclusive name in the nea	me (currently: "master ne Git project i <u>ntends</u> t n future.	") for the initia o change this	al branch default to	
\bigcirc	Override the default branch i	name for new repos	itories		
	NEW! Many teams already renar "main", "trunk" and "developmen initial branch:	ned their default brand It". Specify the name	ches; common git init" should	l choices ar l use for th	e
	main				
This	setting does not affect existing r	epositories.			
http://www.	uniadama aval				
nacps://gicro	rwindows.org/	Back	Nevt		ncel
		back	Next		neer

🚸 Git 2.42.0.2 Setu	p		_		×
Adjusting your F How would you	ATH environment like to use Git from the co	mmand line?			>>
🔿 Use Git fr	om Git Bash only				
This is the only be at	most cautious choice as y le to use the Git command	our PATH will not be l line tools from Git f	e modified at all Bash.	. You will	
 Git from t 	he command line and a	also from 3rd-pa	rty software		
<mark>(Recomme</mark> PATH to a You will be PowerShe	ended) This option adds or void duttering your enviro e able to use Git from Git B Il as well as any third-part	ly some minimal Git onment with optiona ash, the Command y software looking f	wrappers to yo I Unix tools. Prompt and the for Git in PATH.	ur Windows	
🔿 Use Git ar	id optional Unix tools f	rom the Comma	nd Prompt		
Both Git a Warning: use this o	nd the optional Unix tools This will override Windows ption if you understand th	will be added to you tools like "find" and e implications.	ır PATH. "sort". Only		
nttps://gitrorwindows.o	rgį —	Back	Next	Can	cel

Git 2.42.0.2 Setup	_		×
Choosing the SSH executable Which Secure Shell client program would you like Git to use?			>
Use bundled OpenSSH			
This uses ssh.exe that comes with Git.			
O Use external OpenSSH			
NEW! This uses an external ssh.exe. Git will not install its own C (and related) binaries but use them as found on the PATH.)penSSH	ł	
https://gitforwindows.org/ Back Nex	t	Can	cel



🚸 Git 2.42.0.2 Setup		_		×
Configuring the line ending conversions				
How should Git treat line endings in text file	s?			
Checkout Windows-style, commit	: Unix-style lin	e endings		
Git will convert LF to CRLF when chec text files, CRLF will be converted to LI this is the recommended setting on W	king out text files F. For cross-plat indows ("core.au	s. When committi form projects, itocrlf" is set to "i	ng true").	
O Checkout as-is, commit Unix-style	e line endings			
Git will not perform any conversion wh committing text files, CRLF will be con this is the recommended setting on Ur	nen checking out verted to LF. Fo nix ("core.autocrl	text files. When cross-platform p f" is set to "input	projects, ").	
○ Checkout as-is, commit as-is				
Git will not perform any conversions w text files. Choosing this option is not r projects ("core.autocrlf" is set to "fals https://aitforwindows.org/	/hen checking ou recommended for ;e").	t or committing r cross-platform		
	Back	Next	Cano	:el

🚸 Git 2.42.0.2 Setup	_		\times
Configuring the terminal emulator to use with Git Bash Which terminal emulator do you want to use with your Git Bash?			
• Use MinTTY (the default terminal of MSYS2)			
Git Bash will use MinTTY as terminal emulator, which sports a non-rectangular selections and a Unicode font. Windows con as interactive Python) must be launched via `winpty` to work	resizable sole progr k in MinTT	window, rams (sud Ƴ.	h
◯ Use Windows' default console window			
Git will use the default console window of Windows ("cmd.exe with Win32 console programs such as interactive Python or n very limited default scroll-back, needs to be configured to use order to display non-ASCII characters correctly, and prior to window was not freely resizable and it only allowed rectangu	e"), which ode.js, bu e a Unicoo Windows lar text se	works we ut has a de font in 10 its elections.	ell
https://gitforwindows.org/	ext	Car	ncel

🚸 Git 2.42.0.2 Setup	_		×
Choose the default behavior of `git pull` What should `git pull` do by default?			>
Default (fast-forward or merge)			
This is the standard behavior of `git pull`: fast-forward the c the fetched branch when possible, otherwise create a merge	commit.	anch to	
○ Rebase			
Rebase the current branch onto the fetched branch. If there commits to rebase, this is equivalent to a fast-forward.	are no lo	ocal	
○ Only ever fast-forward			
Fast-forward to the fetched branch. Fail if that is not possible	е.		
https://aitforwindows.org/			
Back	ext	Car	ncel

You must use the Git Credential Manager.

🚸 Git 2.42.0.2 Setup	_		×
Choose a credential helper Which credential helper should be configured?			>
Git Credential Manager Use the <u>cross-platform Git Credential Manager</u> . See more information about the future of Git Credential Manager None	here.		
Do not use a credential helper.			
https://aitforwindows.org/			
Back Next		Can	icel

🚸 Git 2.42.0.2 Setup —			×
Configuring extra options			
Which features would you like to enable?			Ŷ
✓ Enable file system caching			
File system data will be read in bulk and cached in memory for certa operations ("core.fscache" is set to "true"). This provides a significa performance boost.	iin Int		
Enable symbolic links			
Enable <u>symbolic links</u> (requires the SeCreateSymbolicLink permission Please note that existing repositories are unaffected by this setting	ı). J.		
https://gitforwindows.org/			
Back Next		Ca	ncel

🚸 Git 2.42.0.2 Setup	_		×
Configuring experimental options These features are developed actively. Would you like to try them?			>
Enable experimental support for pseudo consoles.			
This allows running native console programs like Node or Pytho Git Bash window without using winpty, but is unfortunately not	n in a t quite s	table yet.	
Enable experimental built-in file system monitor			
(NEW!) Automatically run a <u>built-in file system watcher</u> , to speoperations such as `git status`, `git add`, `git commit`, etc in containing many files.	ed up co n worktro	ommon ees	
https://witfour.indo.us.ov/			
Back Inst	tall	Can	cel



Create a Free Account on GitHub

https://github.com/

Sign Up



Email = <u>david.das@maricopa.gov</u>



Password =

et's begin t	he adventu	re		
inter your em	ail [*]			
/ david.das@m	maricopa.go	vv		
reate a pass → ••••••	word [*]		_⊙ (Continue

Enter a Username = DavidDas2

Note: Make this Username as short as possible. It will become a part of the path to your website.

Welcome to GitHub! Let's begin the adventure	
Enter your email [*] √ david.das@maricopa.gov	
Create a password [*] √ ••••••	
Enter a username [*] → DavidDas2	Continue
DavidDas2 is available.	

Verify your Account

/erify your account	
Protecting your account	
Please solve this puzzle so we know you are a real person	
Verify	
Audio	

Submit

Verify your account	
Use the arrows to rotate to direction of the hand. (1	the animal to face in the of 1)
Submit	
Audio	Restart

The GitHub Launch Code will be emailed to you.

Here's your GitHub launch code, @DavidDas2!



0			
	This will help us guid your projects.	de you to the tools tha	t are best suited for
Welcome to	How many team members will be working with you?		
GitHub	O Just me	0 2-5	0 5-10
	0 10-20	O 20-50	O 50+
we dre glad you re here.	Are you a student o	r teacher?	
	○ N/A	O Student	O Teacher
		Continue	

Select the Free Option.

Free	Get additional student benefits
> Unlimited public/private repositories	GitHub Pro
> 2,000 CI/CD minutes/month Free for public repositories	Protect your branches Ensure that collaborators on your repository cannot make irrevocable changes to branches.
> 500MB of Packages storage Free for public repositories	> Draft pull requests
> 120 core-hours of Codespaces compute	> Pages and Wikis
> 15GB of Codespaces storage	> 3,000 CI/CD minutes/month Free for public repositories
> Community support	> 2GB of Packages storage Free for public repositories
	> 180 core-hours of Codespaces compute
	> 20GB of Codespaces storage
	> Web-based support
	GitHub Student Developer Pack
	Free access to the industry's best developer tools
	Hundreds of offers, including Digital Ocean, Microsoft Azure, Heroku, MongoD8, DataDog, Twilio, and Stripe.
Select the Eree	GitHub Campus Expert training
Option	Enrich your college technical community Learn the skills to build diverse tech communities on campus with training, mentorship, and support from GitHub.
Continue for free	Apply for your GitHub student benefits

Create a new Public Repository

https://github.com/dashboard

Create a new Public Repository = HistoricalAerials

Check the Public option.

Start a new re A repository c	pository ontains all of your project's files, revision history, and collaborator discussion.
DavidDas2 /	HistoricalAerials
Public Anyon Private	e on the internet can see this repository
You ch	loose who can see and commit to this repository
Create a new	repository

Create a new repository.

https://github.com/DavidDas2/HistoricalAerials

DavidDas2 / HistoricalAerials	Q Type / to	search	>_ + ▼ () i1 🛛 👎
Code 💿 Issues 🏦 Pull requests 🕑 Actions	Projects	🕮 Wiki 🕕 Security 🗜	🗠 Insights 🛛 🔯 Settings	5
HistoricalAerials Public		☆ Pin ③ Unwatch 1 +	% Fork ▼	☆ Star 0 👻
Construction of the second sec	stions as	A ⁺ Add collaborators to Search for people using Invite collaborators	o this repository their GitHub username or	email address.
Quick setup — if you've done this kind	of thing b	efore		
Set up in Desktop or HTTPS SSH https:	://github.com/C	avidDas2/HistoricalAerials.g	it	C
Get started by creating a new file or uploading an existing	g file. We recom	mend every repository include	a README, LICENSE, and .	gitignore.
<pre>or create a new repository on the con echo "# HistoricalAerials" >> README.md git init git add README.md git commit -m "first commit" git branch -M main git remote add origin https://github.com/Davi</pre>	nmand line	e icalAerials.git	Copy this comman	d
git push -u origin main				

Make a note of this command:

git remote add origin https://github.com/DavidDas2/HistoricalAerials.git

You will use this later.
Open Settings | Pages

https://github.com/DavidDas2/HistoricalAerials/settings/pages

😑 🌍 DavidDas2 / HistoricalAeria	ls		Q Type [] to	search		>_	+ • 💿 🖪 6
<> Code 💿 Issues 👫 Pull requests	5 🕞 A	ctions	🗄 Projects	🛱 Wiki	(!) Security	🗠 Insights	ĝ Settings
鐐 General	(GitHu	ub Pages				
Access 유 Collaborators 只 Moderation options	(r	GitHub F reposito	Pages is designe ry.	d to host yo	ur personal, org	anization, or pro	oject pages from a GitHub
Code and automation	ا ب ع	Build a Source	and deploy	ment			
➢ Actions➢ Webhooks	~ (E	Deploy Branch	y from a branch	•			
Environments	r C	GitHub F publish a None	Pages is currentl a GitHub Pages Save	y disabled. Y site. Learn m	ou must first ad ore about confi	d content to yo guring the publ	ur repository before you ca ishing source for your site.
💾 Pages							

At the moment, there is no content.

Branch GitHub Pages is currently disabled. You must first publish a GitHub Pages site. Learn more about co

Select branch	×
Select branch	
✓ None	

Expand Branch.

There are no branches at present.

The master branch will show up here once you upload content.

This local folder on your PC contains all the necessary files for your website.

C:\DAVID\PROJECTS\HistoricalAerials8\

- cdn	9/14/2023 1:19 PM	File folder	
index.html	9/14/2023 1:23 PM	Firefox HTML Doc	5 KB
35 service-worker.js	9/4/2023 4:52 PM	JavaScript Source	10 KB
web.config	9/4/2023 4:57 PM	Configuration Sou	2 KB

Highlight the folder path and type cmd



This opens a command window with the path set to C:\DAVID\PROJECTS\HistoricalAerials8

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19045.3324] (c) Microsoft Corporation. All rights reserved.
C:\DAVID\PROJECTS\HistoricalAerials8>

Enter the following 7 commands highlighted in green in the following order:

git init



Microsoft Windows [Version 10.0.19045.3324] (c) Microsoft Corporation. All rights reserved. C:\DAVID\PROJECTS\HistoricalAerials8>git init Initialized empty Git repository in C:/DAVID/PROJECTS/HistoricalAerials8/.git/ C:\DAVID\PROJECTS\HistoricalAerials8>_

This creates the .git folder

C:\DAVID\PROJECTS\HistoricalAerials8\

📙 .git	9/14/2023 3:34 PM	File folder	
📙 cdn	9/14/2023 1:19 PM	File folder	
🧧 index.html	9/14/2023 1:23 PM	Firefox HTML Doc	5 KB
service-worker.js	9/4/2023 4:52 PM	JavaScript Source	10 KB
web.config	9/4/2023 4:57 PM	Configuration Sou	2 KB

git add -A

Be patient! It may take a while to add all the files.

git commit -m "Initial Commit"

git config --global user.name "David Das"

git config --global user.email "David.das@maricopa.gov"

git remote add origin https://github.com/DavidDas2/HistoricalAerials.git

Note: You had copied this command earlier.

git push origin master

C:\WINDOWS\system32\cmd.exe
create mode 100644 cdn/1/widgets/lavout/sidebar/dist/setting/translations/pl.is
create mode 100644 cdn/1/widgets/lavout/sidebar/dist/setting/translations/pt-br.is
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/pt-pt.is
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/ro.is
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/ru.is
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/sk.is
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/sl.is
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/sr.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/sv.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/th.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/tr.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/uk.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/vi.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/zh-cn.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/zh-hk.js
create mode 100644 cdn/1/widgets/layout/sidebar/dist/setting/translations/zh-tw.js
create mode 100644 cdn/1/widgets/layout/sidebar/icon.svg
create mode 100644 cdn/1/widgets/layout/sidebar/manifest.json
create mode 100644 cdn/1/widgets/widgets-info.json
create mode 100644 index.html
create mode 100644 service-worker.js
create mode 100644 web.config
C:\DAVID\PROJECTS\HistoricalAerials8>git configglobal user.name "David Das"
C:\DAVID\PROJECTS\HistoricalAerials8>git configglobal user.email "David.das@maricopa.gov"
C:\DAVID\PROJECTS\HistoricalAerials8>git remote add origin https://github.com/DavidDas2/HistoricalAerials.git
C:\DAVID\PROJECTS\HistoricalAerials8>git push origin master

Note: The very first time you enter this command, the Git Credential Manager will ask you to enter your Username and Password to your GitHub Account.



Sign in to Gi t	tHub				
to continue to Git Cred	to continue to Git Credential Manager				
Username or email address	5				
Password	Forgot password?				
Sign in					

Once the Git Credential Manager is successful in verifying your credentials, you will not be challenged again on this device.



The master branch has been created.

https://github.com/DavidDas2/HistoricalAerials

Open Settings | Pages

DavidDas2 / HistoricalAerials	Q Type () to search >_ + • 💿 🕅 🛆 😲
<> Code 🕑 Issues 👫 Pull requests (🕑 Actions 🗄 Projects 🖽 Wiki 🕕 Security 🗠 Insights 🔯 Settings
鐐 General	GitHub Pages
Access	GitHub Pages is designed to host your personal, organization, or project pages from a GitHub
R Collaborators	repository.
\bigtriangledown Moderation options \sim	
Code and automation	Build and deployment
မှီ Branches	Source
🟷 Tags	Deploy from a branch 👻
En Rules ∽	Branch
♦ Actions	GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository.
🔏 Webhooks	
🗄 Environments	None - Save
📮 Codespaces	Select branch X
🗂 Pages	Select branch
Security	t access to your GitHub Pages site by publishing it ccessed by people with read access to the repository
Ocde security and analysis	✓ None published sites to share your internal documentation
🖉 Deploy keys	or knowledge base with members of your enterprise.
* Secrets and variables ~	Try GitHub Enterprise risk-free for 30 days Pages site

Expand Branch.

Notice, now you have a master branch.

Select <mark>master</mark>.

https://github.com/DavidDas2/HistoricalAerials/settings/pages

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Build and deployment

Source



Branch

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. Learn more about configuring the publishing source for your site.



Save

DavidDas2 / HistoricalAerials			Q Type [] to search			+ • •	n 🖻 😨	
<> Code 💿 I	sues 🏌 Pull requests	● Actions	Projects	🖽 Wiki	Security	🗠 Insights	ô Settings	
GitHub Pages sou	ce saved.							×

Refresh this page.

After about 10 minutes, your site will go live.

https://github.com/DavidDas2/HistoricalAerials/settings/pages

DavidDas2 / HistoricalAerials		Q Type [] to search	۶- ۲	• O n 🖻 😨
<> Code 🕢 Issues 👫 Pull requests	⊳	Actions 🗄 Projects 🛱 Wiki 🛈 Security	🗠 Insights 🔯	Settings
钧 General		GitHub Pages		
Access ጾኒ Collaborators		GitHub Pages is designed to host your personal, or repository.	ganization, or project p	ages from a GitHub
D Moderation options	~	Your site is live at https://daviddas2.github.io/H	listorical Aerials/	F∄ Visit site
Code and automation		Last deployed by 😤 DavidDas2 4 minutes ago		
문 Branches				
🛇 Tags		Build and deployment		
E↑ Rules	\sim	Source		
Actions	\sim	Deploy from a branch 👻		
🖧 Webhooks				

Visit Site

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

Your site is live at https://daviddas2.github.io/HistoricalAerials/ Last deployed by 🛞 DavidDas2 5 minutes ago	🖸 Visit site	

This is your website deployed on GitHub Pages.

Notice the https in the URL. You get to enjoy a free SSL certificate.

MARICOPA HISTORICAL ACTIALS	R .:	•• == ••	🔛 💩 📈 😵 🛩	
+ 301 W Jefferson St 85 Q			D 🗹 County	
			▶	
A TANK	Pay Starting	the second	Parcel (Current)	
0 303	A Marrie Sale		▷ 🗌 Zip Code	
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Sun ³ Pkv ²	ALC: MARK	2007	▷ 🗌 Township Range Section	•••
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			▷ 🗌 2021 Sep - 2021 Nov	
		87 2	▷ 🗌 2020 Oct - 2020 Nov	
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the state of the	Saller & T	A starter	▶ 🗌 2016 Sep - 2016 Dec	
	To Balance Company		▷ 🗌 2015 Nov - 2016 Feb	
			▷ 🗌 2014 Sep - 2014 Nov	
	347	587	▷ 🗌 2013 Sep - 2013 Nov	
	Pinal County"	H 87	▶ 🗌 2012 Oct - 2012 Dec	•••
10 km	1		▷ 🗌 2011 Sep - 2011 Oct	
10 mi Move the cursor to get th	sit HERE, Gagnin, NGA, U	JSGS, NPS Powered by Esri	2010 Sep - 2010 Oct	

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

You can open this link on your Tablet or Smartphone and test to see if your web app works for all devices and web browsers in portrait and landscape mode.

Making changes to your code

Examine your HistoricalAerials8 folder:

C:\DAVID\PROJECTS\HistoricalAerials8\

Notice the .git folder that was created.

All the files and folders are under Git control. Any changes that you make to a file or folder are being tracked.

📙 .git 🔪	9/14/2023 3:38 PM	File folder	
cdn att	9/14/2023 1:19 PM	File folder	
index.html	9/14/2023 1:23 PM	Firefox HTML Doc	5 KB
Js] service-worker.js	9/4/2023 4:52 PM	JavaScript Source	10 KB
• web.config	9/4/2023 4:57 PM	Configuration Sou	2 KB

Let's say you want to change the Title from Historical Aerials to **Test App**.



Edit the config.json file under:

C:\DAVID\PROJECTS\HistoricalAerials8\cdn\1\

arcgis-charts	9/14/2023 1:38 PM	File folder	
assets	9/14/2023 1:38 PM	File folder	
alcite-components	9/14/2023 1:40 PM	File folder	
📊 jimu-arcgis	9/14/2023 1:40 PM	File folder	
📊 jimu-core	9/14/2023 1:40 PM	File folder	
📊 jimu-for-builder	9/14/2023 1:40 PM	File folder	
📊 jimu-layouts	9/14/2023 1:40 PM	File folder	
📊 jimu-theme	9/14/2023 1:40 PM	File folder	
📊 jimu-ui	9/14/2023 1:40 PM	File folder	
resources	9/14/2023 1:46 PM	File folder	
hthemes	9/14/2023 1:40 PM	File folder	
widgets	9/14/2023 1:40 PM	File folder	
🥁 config.json	9/14/2023 1:25 PM	JSON File	203 KB
index.js	9/4/2023 4:57 PM	JavaScript Source	41 KB
service-worker-registration.js	9/14/2023 1:23 PM	JavaScript Source	1 KB

Search for the string "Historical Aerials"



Replace with "Test App"

📙 config.json 🗵	
1719 -	},
1720 白	"widget_3": {
1721	<pre>"id": "widget_3",</pre>
1722	<pre>"uri": "widgets/common/text/",</pre>
1723 🛱	<pre>"config": {</pre>
1724	<pre>"text": "<span 24px;<="" font-size:="" pre="" style='\"color:' var(light);=""></pre>
	font-family: Impact;\">Test App",
1725	"style": {
1726	"verticalAlign": "q
1727	"wrap": true, Test App
1728	"overflow": "scroll
1729	"padding": "p-1"
1730 -	}
1731 -	},
1732	"version": "1.12.0",
1733	"label": "Title"
1734 -	},

Save your edits.

To push these changes to your remote website, enter these 3 commands highlighted in green.

Enter:

git add -A

Enter:

git commit -m "Changed Title to Test App"



Notice, Git recognizes that 1 file was changed.

It is always a good practice to add a short message indicated by the -m flag. In this example, the message is "Changed Title to Test App." This allows anyone to follow the changes while going through the history of commits.

https://www.freecodecamp.org/news/how-to-write-better-git-commit-messages

Enter:

git push origin master

C:\DAVID\PROJECTS\HistoricalAerials8>git push origin master Enumerating objects: 9, done. Counting objects: 100% (9/9), done. Delta compression using up to 20 threads Compressing objects: 100% (4/4), done. Writing objects: 100% (5/5), 425 bytes | 212.00 KiB/s, done. Total 5 (delta 3), reused 0 (delta 0), pack-reused 0 remote: Resolving deltas: 100% (3/3), completed with 3 local objects. To https://github.com/DavidDas2/HistoricalAerials.git 224e483..02e2ca4 master -> master

C:\DAVID\PROJECTS\HistoricalAerials8>

This pushes the local changes that you made to your GitHub Repository.

Clear your browser cache and reopen your website.

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

You have successfully changed the Title to **Test App**.



As you can see, GitHub is a powerful tool to test your changes on the fly and have them reflected instantly on your remote website.

Best of all, this is a free resource.

How to create the HTML5 User Guide

Examine this mobile friendly HTML5 User Guide for the Historical Aerials.

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



It collapses gracefully to fit smaller windows.





This was created using a popular help authoring tool named **Dr. Explain**.

Here is a Tutorial on using Dr. Explain.

It shows you how to convert any Word Document into an HTML5 Help System.

http://davidapps.net/DrExplain/Tutorial

Dr. Explain User Guide			
i≡Menu 🗭 Index 🔎 Search		O Search S	earch
Menu Index Search Overview Download the trial version of Dr. Explain Launch Dr. Explain Import a Word Document The Document Style Matching Window Save your Project Save your Project Save your Project Settings Generate HTML Configure Project Settings Generate the HTML Help Save your Index Entries Examine the HTML File Structure Copy the entire help folder to the Web Server Try the full text Search Fully Responsive Design Where to order Dr. Explain?	Overview This Tutorial shows how to convert a Word D without writing a single line of code. Dr. Explain is a popular Help Authoring Tool Web Help files that can be readily published It has advanced functions to capture screen elements that are hyperlinked to descriptive You will begin with a Microsoft Word Docum File: http://www.davidapps.net/DrExplain/Samp! This is how your Web Help will look like afte http://www.davidapps.net/DrExplain/help/ Let's begin!		ision
© 2019 Maricopa County			

Brief history of ESRI's Web Mapping Technology

Jay Theodore kick started the era of Web Mapping at ESRI with the introduction of ArcIMS. We started using ArcIMS 3.0 in 2000. It gave us a simple and reliable way to share our data on the web. This product served us well for 10 years.

ESRI released 3 APIs for JavaScript, Flex and Silverlight for building web applications.

None were getting much traction as they required you to learn programming.

Moxie Zhang changed all of that with his introduction of the Flex Viewer 2.0 in 2010.

Moxie came up with the brilliant concept of encapsulating large chunks of code into configurable widgets which can then be arranged within a viewer.

This opened the floodgates. All of a sudden anybody could publish fully functional and visually attractive web applications featuring a simple GUI *without having to write a single line of code*!

Robert Scheitlin, the Flex Guru, stepped in and created dozens of custom widgets and shared them for free on the ESRI Community Forums. Robert's most popular custom widget was the Enhanced Search Widget. It combined an Attribute Search, Graphical Search and Spatial Search under a single interface that was intuitive for beginners.

This was a powerful tool. It was a masterpiece. It had 50,000 lines of code.

We used Robert's custom widgets to design our Arizona Broadband Map.

Here are some video tutorials showing how this application worked.



https://www.youtube.com/user/ArizonaBroadband/videos



ArizonaBroadband @ArizonaBroadband 18 subscribers 24 videos The Arizona Broadband Community Planning Map is a free interactive Web... >



This is a screenshot of the application.

It was possible to change the Theme from Sage Green to Desert Sand with one line of code.



ArcGIS Online was released in 2012. This was the brainchild of Sud Menon to create a simple online interface to collect, organize, manage, share, map, visualize and analyze all forms of Geospatial Data. This was a smashing success. In a few short years it has become the world's largest mapping platform.

After Steve Jobs banned the use of Flash on mobile devices and Microsoft dropped support for Silverlight, JavaScript was the only pathway moving forward. JavaScript was supported natively on all modern browsers. JavaScript Apps could run on these browsers without having to download a plugin.

All Flex Apps needed to be retooled using JavaScript.

Moxie once again came to the rescue. Retaining the same concept as the Flex Viewer, Moxie released the **Web AppBuilder** in 2014. This product revolutionized the world of Web Mapping.

This product allowed any GIS Analyst to convert a Web Map on ArcGIS Online into a mobile friendly Web Application featuring a rich collection of widgets with just a few mouse clicks. The developer edition allowed you to add custom widgets further extending the capabilities.

There are over half a million Web AppBuilder Applications on ArcGIS Online alone with thousands more created with the Developer Edition.

Robert Scheitlin took the time to learn the JavaScript 3.x API and ported all his custom widgets from Flex to JavaScript. We shall always remain thankful to Robert for his generosity. His Enhanced Search Widget is the centerpiece of all our Web Apps.

While the Web AppBuilder became a runaway success and the default platform for designing responsive web apps, Moxie had a grander vision to take Web Mapping Technlogy to the next level.

Moxie released the **ArcGIS Experience Builder** in 2020. One could now apply the concept of widgets and themes to build complete websites with multiple pages rather than being limited to a single web app.

The Experience Builder Framework supports true drag & drop functionality offering complete flexibility on how you design the layout of each page supporting dynamic charts, tables, images and lists that update as the user interacts with the various elements.

It is built upon JavaScript SDK 4.x and supports seamless switching between 2D and 3D datasets.

The Experience Builder interface is deceptively simple. It hides all the complex programming that happens behind the scenes. It took a team of 40 developers toiling for 3 years to make this magic happen.

What is the future of Web Mapping?

With every iteration starting with ArcIMS, the technology has become simpler and more powerful.

The Experience Builder platform will carry us through 2030 as more widgets are added. It will soon reach parity with the Web AppBuilder and eventually eclipse it.

There is a high probability the successor to the Experience Builder may include an AI component.

Imagine this.

All Experience Builder projects require you to start by selecting a Template. There are over 60. What if the AI driven technology becomes smart enough to examine your map services and decide what is the best way to present your data on the web and create a fully configured website for you?

What if you could say, "Build me a website that allows me to compare all the historical aerials with tools to zoom to a specific address or parcel and display all the relevant details."

The possibilities with AI are tantalizing.

Should you transition from WAB to EXB?

The ArcGIS Experience Builder is ESRI's next generation Web Mapping Platform.

It is the successor to ESRI's Web AppBuilder for ArcGIS.

All development on the WAB Developer Edition will stop in July 2024. There would be no more bug fixes.

All development on the WAB ArcGIS Online Edition will stop in the 4th quarter of 2025.

Do not be alarmed!

All your existing WAB apps on AGOL will continue to work after the end of 2025. You just would not be able to update them as the WAB AGOL Edition would be retired at the end of 2025.

What would happen to the over half a million WAB Apps on AGOL?

If they are running fine and you have no need to update them, you have nothing to worry about.

However, if you foresee the need to make changes to your existing WAB Apps on AGOL you should move to the Developer Edition of WAB. It supports the same collection of standard widgets as the AGOL edition with the additional advantage of allowing custom widgets.

The final version of the WAB Developer Edition after July 2024 will always be available for download at:

https://developers.arcgis.com/web-appbuilder/

You can keep using the Developer Edition of WAB indefinitely.

The Developer Edition of WAB depends on the JavaScript 3.x API. It does not contain a copy.

You can use the JavaScript 3.x API hosted on ArcGIS Online or ArcGIS Enterprise. You can even host this on your own server.

ESRI has no plans to shut down the JavaScript 3.x API Servers on ArcGIS Online. In fact, previous versions of the JavaScript API 2.x and 1.x are still available on ArcGIS Online.

You can keep using the Enterprise Edition of WAB till 2030.

The final version of the Enterprise Edition of WAB will be released in the first half of 2025. After that ESRI will continue to offer 5 years of product support until 2030.

To further put your mind at ease, here are the responses from Jianxia:

"As I understand, these WAB Developer Apps will continue to work indefinitely, until a point in time where a future browser update may cause issues."

Correct.

"Hypothetically speaking, let's say we run our existing WAB Developer Apps till 2027. Let's also assume there are no browser updates that break the applications."

Yes, your existing apps built with developer edition will continue running under that assumption.

Will ESRI shut down their JavaScript 3.x API servers at some point in time?

I am not aware of any plans to shut down JavaScript 3.x API in ArcGIS Online. In fact, previous versions of JavaScript API like 2.x and 1.x are still available in ArcGIS Online. I would worry more about the browser updates in the future than availability of JavaScript 3.x API in ArcGIS Online

Does this even matter for the WAB Developer Apps? Are they fully self-contained? Or do they depend on the ESRI JavaScript 3.x servers to function?

It matters. WAB developer edition does not contain a copy of JavaScript API and depends on the JavaScript API to work properly. However, you can use developer edition connecting to JavaScript 3.x API hosted in ArcGIS Online, ArcGIS Enterprise, or your own server.

Hope this helps. Have a good weekend.

Jianxia

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Should you transition your existing WAB apps to EXB?

The Web AppBuilder for ArcGIS was released in 2010. It is a mature and stable product. It has gone through numerous bug fixes and enhancements. The current version is 2.28.

You are free to leverage the functionality of over 60 Standard Widgets plus dozens of Custom Widgets designed by third party developers.





User Guide

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T Bookmark	©∂ Draw
© Directions	Frint
A Fly Controller	<u>XYZ</u> Coordinate Conversion
Oriented Imagery	K Elevation Profile
<u>0_9</u> Suitability Modeler	ک پُرُمُ Utility Network Trace
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Filter	Query
00 Chart	Eature Info
Q⁼ Search	ピ Edit
_o Timeline	Add Data
Branch Version Management	€ √ Survey
Page elements	^
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(7) Embed)][Divider

Menu and toolbars Widget Controller Menu ~{∂^ Share Layout •:: Fixed Panel Sidebar Column Row \blacksquare Grid Placeholder Section Ф <u>...</u> Views Navigation Section Custom শ্র Simple

Contrast this with the widgets available for EXB version 1.12

The choice of using **WAB** or **EXB** should be carefully evaluated on a case by case basis.

If your objective is to build a *single* Web Mapping Application that utilizes the full functionality of existing WAB custom widgets like Robert Scheitlin's Enhanced Search Widget and the Identify Widget, then the Developer Edition of the Web AppBuilder is your best choice.

WAB is a mature and stable platform. If you have existing WAB apps built with the Developer Edition of WAB, keep them. They should run indefinitely until a browser update breaks them.

Although you are limited to creating single Web Apps you can still embed them within a multipage website.

Here is a tutorial on how to create a website using **Mobirise**, the world's number one Website Builder.

http://davidapps.net/mobirise/help



If on the other hand, your goal is to build a complete *multi-page* website with interactive charts, tables, lists, images with seamless switching between 2D and 3D maps with the freedom to create your own page layouts, menus with easy integration with other ESRI mapping apps like Story Maps and Survey 123, then you should use the the Experience Builder. If you wish to add Custom Widgets, you would need to use the Developer Edition of the Experience Builder.

The EXB platform was launched in 2020. It is still in its infancy going through 4 updates each year. New widgets are being added while existing widgets are being enhanced with new functionality with every release. It is in a constant state of flux. It will likely reach parity with the WAB platform within a year or two and then eclipse it to become the new standard for Web Mapping.

EXB utilizes all the new capabilities of the new Map Viewer in ArcGIS Online. If you need to group layers, EXB is the way to go.

Personally, I love the Experience Builder!

The Experience Builder Platform is the next milestone in Moxie's grand vision to bring Web Mapping to the masses. The User Interface is more intuitive and elegant than the Web AppBuilder featuring over 60 templates plus offering you the capablity to design the layout of every page and window.

I did not realize the true power of the Experience Builder until I took the **Building Web Apps with ArcGIS Experience Builder** class from Rudy Prosser, Senior Instructor at ESRI.

https://www.esri.com/training/catalog/63dd4da15b71755a052729f8/building-web-apps-witharcgis-experience-builder/



For anyone getting started on the Experience Builder, this 2-day virtual training course is an absolute must.

A lot of design thought went behind the Experience Builder. You can make an attractive, interactive, mobile friendly website in a matter of hours without writing a single line of code.

Although the EXB Interface appears very simple with its modest collection of drag & drop widgets, a lot of fancy code gets created behind the scenes. It took a team of 40 developers working for 3 years to make this magic happen.

For someone seeking to develop Custom Widgets for EXB, there is a steep learning curve. You have to learn the following programming languages:

- JavaScript
- TypeScript
- CSS
- HTML

You have to learn the following frameworks:

- ArcGIS Map SDK for JavaScript 4.x (Core GIS Application Functionality)
- React Framework (Application and Widget Logic)
- Redux Framework (State Management)
- Bootstrap 4 (User Interface)

It can get expensive for small organizations to retain full time programmers on their staff for the sake of building custom widgets. A cheaper alternative may be to contact ESRI Professional Services to have them build these Custom Widgets for you.

https://www.esri.com/en-us/arcgis/services/overview

On behalf of our Experience Builder Community I would like to thank Moxie Zhang, Jianxia Song and the entire WAB/EXB development team for all their hard work and programming wizardry in making these magical tools for us.

They are a joy to use!

Best regards,

David Das, GISP GIS Programmer/Analyst Maricopa County

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Resources

Download ArcGIS Experience Builder, Developer Edition

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

ArcGIS Experience Builder Community

https://community.esri.com/t5/arcgis-experience-builder/ct-p/arcgis-experience-builder

ArcGIS Experience Builder Custom Widgets by Robert Scheitlin

https://community.esri.com/t5/experience-builder-custom-widgets/tkb-p/eb-custom-widgetstkb-board

ArcGIS Experience Builder Custom Widgets

https://community.esri.com/t5/experience-builder-custom-widgets/gh-p/eb-custom-widgets

ArcGIS Experience Builder SDK Resources

https://github.com/Esri/arcgis-experience-builder-sdk-resources

Download Node.js

https://nodejs.org/en/download

Download Microsoft Visual Studio Code

https://code.visualstudio.com/download

Download Notepad++

https://notepad-plus-plus.org/downloads/

GitHub – Create an Account

https://github.com/

Download Git for Windows

https://github.com/git-for-windows/git/releases/download/v2.42.0.windows.2/Git-2.42.0.2-64bit.exe