Making a Base Map of the 2nd Indochina War using ArcGIS Online

OVERVIEW: For this activity you will build an interactive map project in ArcGIS Online that helps frame the geography of the 2nd Indochina War. Skills covered include: searching for layers, adding layers, basic symbology, filtering by attribute, adding map notes, making bookmarks, and saving the map.

DATA:

iSTEM_Indochina_Countries – polygon layer that contains information about the country borders for Indochina. Courtesy of Dr. Rex Douglas

iSTEM_Provinces – polygon layer that contains the administrative provinces for Indochina. Courtesy of Dr. Rex Douglas

iSTEM_VNM_MilitaryBases – point layer that contains the military bases of the Vietnam/American War in Southeast Asia. Layer courtesy of Chris Bunin; data courtesy of Wikipedia

iSTEM SEAsia MapNotes – csv file containing events pertaining to the 2nd Indochina War.

Optional Layers

iSTEM_Indochina_Ethnolinguistic – tiled tif map of languages spoken in Indochina. Courtesy CIA

iSTEM Indochina Vegetatation = tiled tif map of vegetation in Indochina. Courtesy CIA

DIRECTIONS

 a							
. Go to	www.arcgis.com	and	sign	ın	using	your	credentials.



2. Choose **Map** and then Choose **New Map** to verify you are making a new map and don't have lingering data from a previous project.

Add Data

1. Click on **Content** and then click on **Add** -> **Search for Layers**

Home
My Map



2. Add the layer **iSTEM_Indochina_Countries** by searching in **ArcGIS Online**. To do this fill in the search window to match the image below:

← ArcGIS Online ▼								
Q iSTEM_Indochina_Countries								
1 layers	≣	E						
5	iSTEM_Indoo s	china_ ChrisE 5/18	Count Bunin	rie				
				\oplus				

3. Click on the **Add** tab in the bottom right of the **iSTEM_Indochina_Countries** layer that appears.

SYMBOLIZE AND RENAME iSTEM_Indochina_Countries

When layers are added to ArcGIS Online you may wish to change the symbols that were used when the data was added to ArcGIS Online.

1. Click on **Content** and then click on the layer **iSTEM_Indochina_Countries.** Then choose the **Change Style** icon below the layer name.



2. Symbolize each state based on the name of the country. To do this change the **attribute** to **COUNTRY**.

Cha	ange Style	
iste Cou	EM Indochina Countries - untries	Indochina
1	Choose an attribute to sh	iow
	COUNTRY	*
2	 Add attribute Select a drawing style 	
	Types (Unique symbols OPTIONS	

3. Accept the default drawing style for the countries.

- Click **OK** again
- Click **DONE***

*THIS IS VERY IMPORTANT. If you do not click OK again and then click DONE your color changes <u>WILL NOT be applied.</u>

If you would like to change the default colors click on **Options.



Adjust the color of the country to one that you would like for each country.

- Click on the **color box** to the left of the country **LABEL**. Change to FILL color to by clicking on the colors you would like for each country.



- Click **OK** again
- Click DONE*

*THIS IS VERY IMPORTANT. If you do not click OK again and then click DONE your color changes <u>WILL NOT be applied.</u>

RENAME iSTEM_Indochina_Countries

1. Click on the layer **iSTEM_Indochina_Countries.** Then choose the **More Options** icon below the layer name.



2. Choose the option to **Rename** the layer and change it to **Indochina**, 1955 - 1975.

3. Click **OK**

SAVE EARLY & SAVE OFTEN

Like any computer document -it is wise to save your work early and often in ArcGIS Online.

1. Click on **Save** and give your map a name, tags, summary and provide a destination to save your project. For this assignment save your map with the following details while changing the initials. See screen capture below.

Save Map		
Title:	JCB - Indochina Basemap, 1955 - 1975	
Tags:	NHC x Indochina x Add tag(s)	
Summary:	Basemap of Indochina, 1955 - 1975	
Save in folder:	ISTEM_ChrisBunin	.
	SAVE MAP	CANCEL

2. Click on Save Map

ADD & SYMBOLIZE MORE DATA

1. Click on **Content** and then click on **Add -> Search for Layers**

2. Add the layer **iSTEM_Provinces** by searching in **ArcGIS Online**.

3. Click on the **iSTEM_Provinces** layer name and choose **Change Style**. Choose the option for "Showing Location Only" and **choose options**. Click on the hyperlinked text, **Symbols**.

Change Style	•
iSTEM Provinces - SE ASIA PROVINCES SV NV KH LA	
Showing Location Only	
Symbols	





. Click on Outline and choose black and set the line width to 1.0

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FILL	OUTLINE		
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Pattern		<u> </u>	
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		ОК	CANCEL

6. **Rename** the layer **Provinces** (click on more options, choose rename)

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1.	CHUK	UII D		ω	save	your	WOIK.

ADD & SYMBOLIZE iSTEM_VNM_MilitaryBases

1. Click on **Content** and then click on **Add -> Search for Layers**

2. Add the layer **iSTEM_VNM_MilitaryBases** by searching in **ArcGIS Online**

\leftarrow	ArcGIS Online 🔻
Q, iSTEM_VN	M ×
1 layers	≣ ☵ 두 弯
	iSTEM_VNM_MilitaryBases
	Θ

3. Click on the **iSTEM_VNMMilitaryBases** layer name and choose **Change Style**.

Choose the option for "SIDE", choose Options



- Click on the symbol next to label "United States - Republic of Vietnam"

	Ch	ange	e Style			
	iST Mil	EM \ itary	/NM Military Bases	/Bases - V	ΝM	
	SID	E				
	Clic	k to e	dit symbol or la	abel.		
			LABEL United	COUNT		
(5	States- Republic of Vietnam	126		
		•	North Vietnamese	18		
		•	Other	0	44	

- Click on "Shape" and choose the black square and set the size to 16.



- Click **OK**
- Change the symbol for North Vietnamese to become a red square and set the size to 16.

- Click OK, and Click Done



4. Rename the layer **Military Bases**

5. Save the Map

CONFIGURE THE POP-UP INFORMATION FOR THE BASES

1. Click on the laye	r Military Bases -> More Options ->	Configu	re Pop-Up
2. Remove the text screen capture below.	VNM_MilitaryBases from the Pop-Uj	o Title so) that it matches the
3. Click on the hyp	erlink text configure attributes .		
	Military Bases		
	Show Pop-ups		
	Pop-up Title		
	{NAME}	+	
	Pop-up Contents		
	Display: A list of field attributes 👻		
	These field attributes will display:		
	TYPE {TYPE}		

5. Click on the attribute **OPEN** and **change the number of decimal points to 0 and** uncheck "Use the 1000 Separator."

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Ĵ,

6. Click **OK**

OPEN {OPEN } WikiSite {WikiSite}

Configure Attributes

4. Uncheck all attributes except for TYPE, OPEN, and WikiSite.

7. Save the map. Click on any of the military bases and notice that the information in the pop-up only shows NAME, TYPE, OPEN, WikiSite

CREATE A LAYER OF BASES OPENED in 1965 BETWEEN 1966 & 1968

1. Click on the Military Bases -> click on More Options -> Copy
2. Rename the Military Bases to read Military Bases – 1966 - 1968
\Box 3. Filter the layer, Military Bases – 1966 - 1968 to just show the military bases that were opened between 1966 – 1968
 To do this: → Click on the layer, Military Bases – 1966 - 1968 → Click on the Filter icon
 ✓ Military Bases - 1965 Image: Image: Image:

- → Click on Add Another Expression so there are two (2) Filter Options
- → Create a Filter that selects the military bases that were open between 1966 1968..

Filter: Military Bases - 1966 - 1968	

View E	dit		
		+ Add another expression	🗌 Add a se
Display featur	es in the layer that match	h all of the following expressions 🔻	
OPEN Ask for va	│▼ is at least	 ▼ ■ Value ○ Field ○ Unique 	×
OPEN Ask for va	▼ is at most	 ▼ ■ Value ○ Field ○ Unique 	×
	APPLY FILTER	APPLY FILTER AND ZOOM TO	CLOSE

→ Click on the Apply Filter

**Notice only the military bases opened between 1966 - 1968 are visible.

ADD & SYMBOLIZE THE LAYER iSTEM_HoChiMinh_Trail

1. Click on Content	and then click on A	Add -> Search f	or Layers
2. Add the layer iSTI	EM_HoChiMinh_	Trail by search	ing in ArcGIS Online
3. Click on the iSTE	M_HoChiMinh_1	rail layer name	and choose Change Style.
To do this: → Click on the layer, → Click on the Chan ✓ iSTEM HochiMinh ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	iSTEM_HoChiM nge Style icon Trail ••• e to Show Location linked word symb	inh_Trail n Only ools	
	iSTEM HoChiMi	inh Trail - HoCM	T Trail
	Showing Locatior	n Only	
	Symbols	>	
	Transparency		
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	0%	50%	100%
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	Set from Attri	bute Values	
	Visible Range ■		Suggest
	World 👻	F	loom 👻

→ Choose a shade of Brown and change the style of the line to match the screen capture on the next page. You want the line width to be 3 and the line to be an arrow.

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	#A80000	More
	Juggesteu	
	Recent	
	Transparency	
	0% 50%	100%
	Line Width	
	Pattern	3 px
		*
	Arrow	→ •
		OK CANCEL
4. Click OK -> OK -> D	ONE	
5. Rename the layer Ho	Chi Minh Trail	
	_	
6. Click Save to save you	ır work.	
	ADD A SIMPL	E MAP NOTE
1. Click on Content and	then click on Add ·	-> Add Map Notes
2. Search for Dien Bien I	Phu	
3. Click on the Pin Map	Note	
4. Click on the Stick Pin	Man Nota	
	Map Note	

5. Fill in the map note information as shown below.

Points	□ ×
Title	Bunker du colonel de castries
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Description	Dien Bien Phu marked the fall of the French in Indochina.
Image URL Image Link URL	https://upload.wikimedia.org/wikipedia/commons/a, https://upload.wikimedia.org/wikipedia/commons/a,
DELETE C	HANGE SYMBOL CLOSE

Image Link:

https://upload.wikimedia.org/wikipedia/commons/a/ae/Victory_in_Battle_of_Dien_Bien_Phu.jpg

**TECHNOLOGY TIP: When you link to images from Wikipedia you have to right click and open the image in a new window twice.

5. Click Close and then Close the Map Note Window

6. Click on the simple Map Note you created.

ADD & SYMBOLIZE SEAsia_MapNotes

1. (Click o	n Con	tent an	d then	click	on Add	->	Add	Laver	from	File

2. Add the file **SEAsia_MapNotes.csv**

3. Change they symbology to a Map Note Icon. Click on Show Location Only -> Click on Options -> Click on the hyperlinked symbol text.

→ Click on Shape -> Choose the People/Places Template

 \rightarrow Click on the "information" Icon and change the size to 24



4. Click OK -> OK -> Click DONE

CONFIGURE THE POP-UP INFORMATION FOR THE MAP NOTES

1. Rename the SEAsia_MapNotes layer to read Map Notes.

2. Click on the layer Map Notes -> More Options - > Configure Pop-Ups



3. Set your Pop-up Title to be based on the NAME field -> Click on Configure

Attributes

Configu	ure Pop-up	
Map No	otes	
Show	Pop-ups	
Pop-up	Title	
{NAME}		+
Display:	A list of field attributes	
These fie	eld attributes will display:	
NAME { LOCATI Lat {Lat]	NAME} ON {LOCATION}	

- → Uncheck all display boxes except for LOCATION
- → Click OK
- → Scroll down and click on Add Pop-Up Media ->

Attribute	Expressions

nformation from existing fields for us pop-ups.	se in	
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Bar Chart rder. Column Chart Line Chart		1 000 000
Bar Chart rder. Column Chart Line Chart		100 VOI
	Pop-up Media Display images and charts in the pop	ADD Pop-up Media Display images and charts in the pop-up: ADD =

→ Configure the Pop-Up to match the settings to in the image below.

Specify the title, caption and URL for this imag	e, Insert fiel
Title:	0.41.01
Caption	
(CAPTION)	E
URL	
(IMAGE_URL)	Œ
Link (optional)	
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Refresh Interval	
Refresh image every Diminutes.	

→ Click OK -> Click OK

→ Click on any of the map notes and notice that you have configured the pop-up to be more interactive and user-friendly.

→ Save your Map

Congratulations! You have successfully created an interactive base of map Indochina that you can use in the classroom.

OPTIONS FOR SHARING YOUR MAP

Option #1 – Share your map via a web link. To do this:

- → Click on Share
- → Check the groups you want to share with. In this case click on Organization
- → Cut, paste, and share the link with folks.

Option #2 – Share your map as a simple "Basic Viewer" App. To do this:

- → Click on Share
- → Click on CREATE A WEB APP SHOW
 Link to this map http://arcg.is/1q9uLr
 ✓ Share current map extent
 Embed this map
 EMBED IN WEBSITE
 CREATE A WEB APP
- ALL
- → Click on ->BASIC VIEWER -> CREATE WEB APP
- → Accept the default settings -> Click **DONE**
- → Configure the General Settings, the Theme Settings, and Options. The most important in my opinion are your map OPTIONS.
- → Click on **Options** and add the **legend and measuring tool** to the map options.
- → Click Save -> Click Launch
- \rightarrow To share your map click on the share icon **the share icon** to get the Basic Viewer weblink.

Option #3 – Create a Story Map

A.

- → Go to storymaps.arcgis.com IF PROMPTED SIGN IN USING CREDENTIALS
- → Click on New Story -> Start from Scratch
- → Title the Map -> Geography of Southeast Asia

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- → Click on Add Content Block -> Map
- → Choose the map, Indochina Base map, 1955 1975
- → On the left hand side turn off all layers except for Indochina Countries and Provinces.
- \rightarrow Place your map by zooming in or out to an extent you like.
- → Change the name beneath the map to read, Indochina Countries and Provinces
- → Click on Add Content Block and add the text -> Explore the map above. "What patterns do you notice? What you find surprising or interesting?"

C.

- → Click on Add Content Block -> Map
- → Choose the map, Indochina Base map, 1955 1975
- ➔ On the left hand side turn off all layers except for Indochina Countries, Provinces, Military Bases 1966-1968
- → Change the name beneath the map to read, Vietnam Military Bases, 1966 1968
- → Click on Add Content Block and add the text -> "Explore the map above. What patterns do you notice? What you find surprising or interesting?"
- D.

→ Click on Add Content Block -> Map

- → Choose the map, Indochina Base map, 1955 1975
- ➔ On the left hand side turn off all layers except for Indochina Countries, Provinces, HoChiMinh Trail and Map Notes.
- → Change the name beneath the map to read, Ho Chi Minh Trail and Map Notes
- → Click on Add Content Block and add the text -> "Explore the map and the sources in the map notes. Conduct a 3-2 S.I.T. What are three things you find surprising/interesting? What two things you find troubling?"

You have made a very simple story map that can be used for classroom instruction.

PREVIEW AND PUBLISH YOUR MAP. TO DO THIS:

- 1. Click on the Preview Tab
- 2. Click on Publish -> Publish with Everyone

*If prompted you may need to share your Indochina map with everyone to make the story accessible to everyone.

REMEMBER

Layers make Maps...Maps make Apps

If you need to make changes to the map you need to go to your ArcGIS Online content folder and make changes to your map. Once you make changes to your map these changes will be made to your story map.

Making changes to you map may require you to re-format some of your story map maps.