

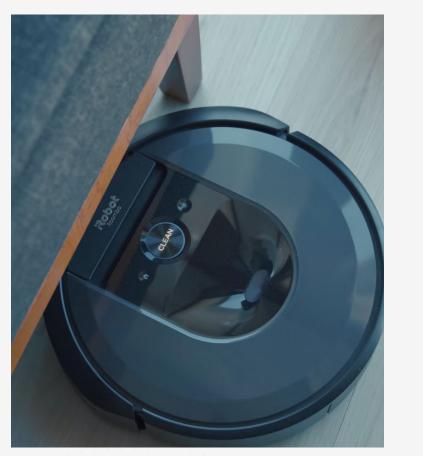
Modern GIS is Web GIS

Teaching GIS Using ArcGIS Online

Brian Baldwin Charlotte Smith Shawn Morgan Rodolfo Franco

Housekeeping

- Please enter your questions in the chat box
- Q&A session at the conclusion of the webinar
- Webinar & slides will be available
- Survey following the webinar

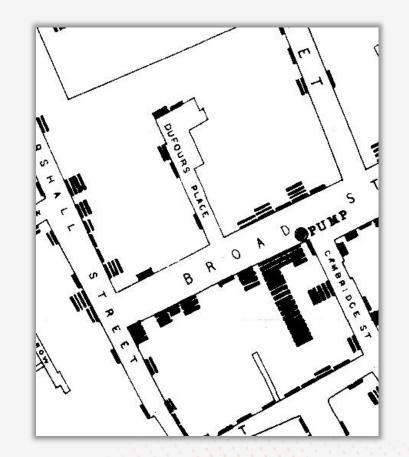


Onur Binay @unsplash

Agenda

- Introductions
- Modern GIS?
- Faculty Presenters
 - Charlotte Smith
 - Shawn Morgan
 - Rodolfo Franco
- Resources





Esri's Education Program

Enabling, Encouraging, and Equipping

... future decision makers to think spatially, solve problems, and use GIS to become the change agents of tomorrow.

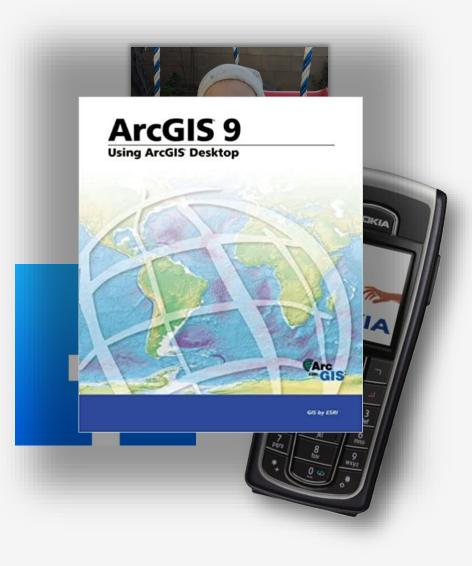
- 7,000+ universities globally
- Free licenses for all K-12 (Esri Schools)
- Education, research, and operations

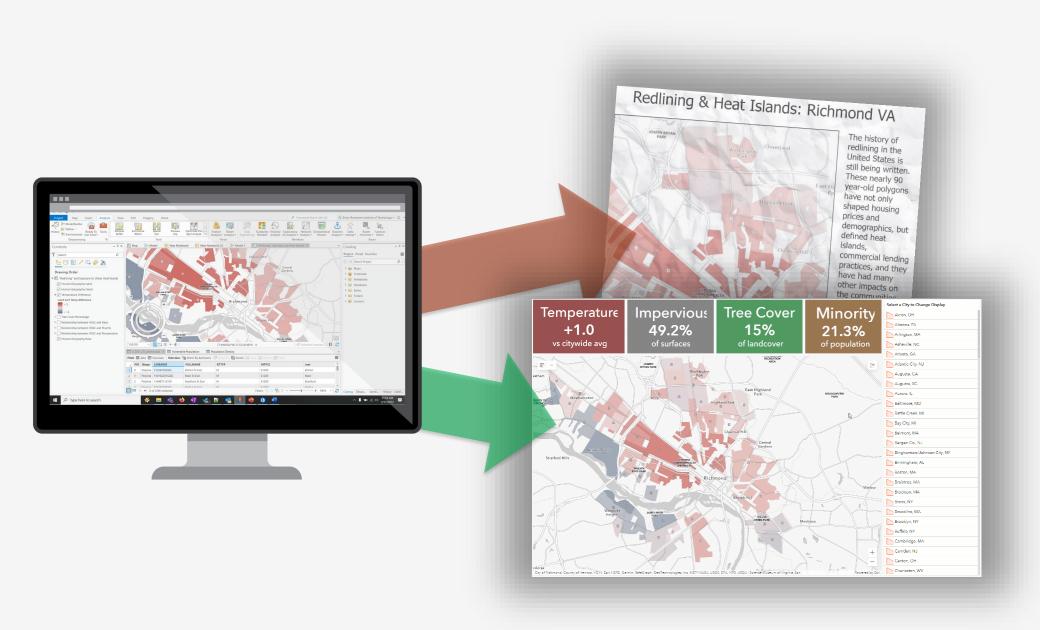


Time travel to 2004... **19 years ago.**



Harry Cunningham @unsplash

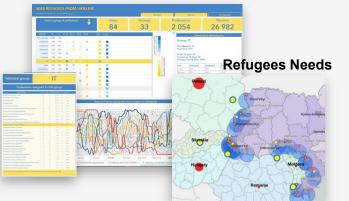




Who is using ArcMap?



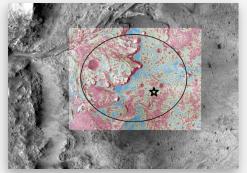
Tracking Ukrainian Refugees



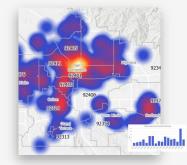
Ship Tracking - Security



Mars Lander Suitability



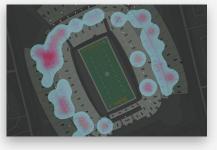
High Lead Levels in Children



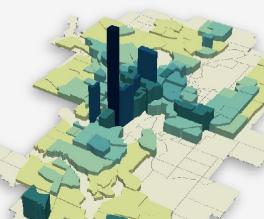
Real-Time Traffic Monitoring



Visualizing Stadium Beer Sales



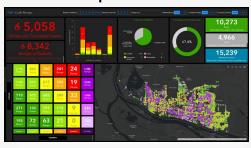
Mapping Historic Crime Rates



Tree Inventory



Sidewalk Ramp Status



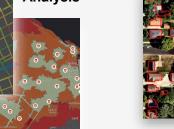
Fire Forecast





Emergency Routing

Travel Analysis



Building Feature Extraction (AI)

Vulnerable Populations & Health

Average Survey Completion 2.6 minutes



Field Assessments

Evolution of GIS – Becoming Interconnected





Charlotte Smith

UC Berkeley - School of Public Health

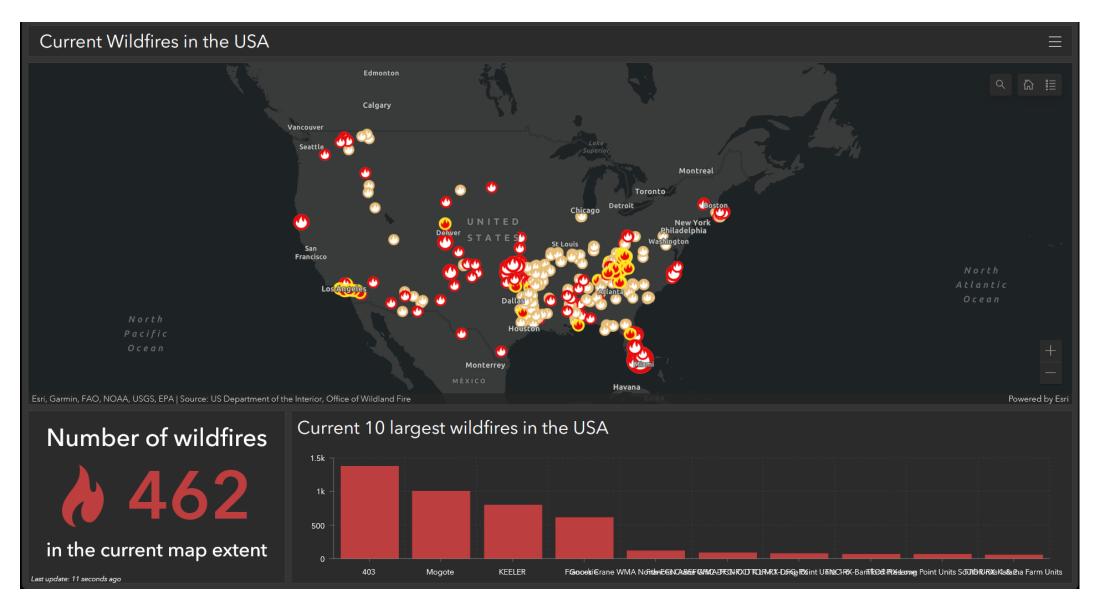


BayGeo GIS Training for San Francisco Employees

Survey123, ArcGIS Online and Dashboards

Charlotte Smith PhD, MA, MAS UC Berkeley, School of Public Health charlottesmith@berkeley.edu

Workshop Goal: Make a Dashboard like this with our data!!!



https://learn.arcgis.com/en/projects/make-a-dashboard-to-monitor-wildfires/

www.survey123.arcgis.com



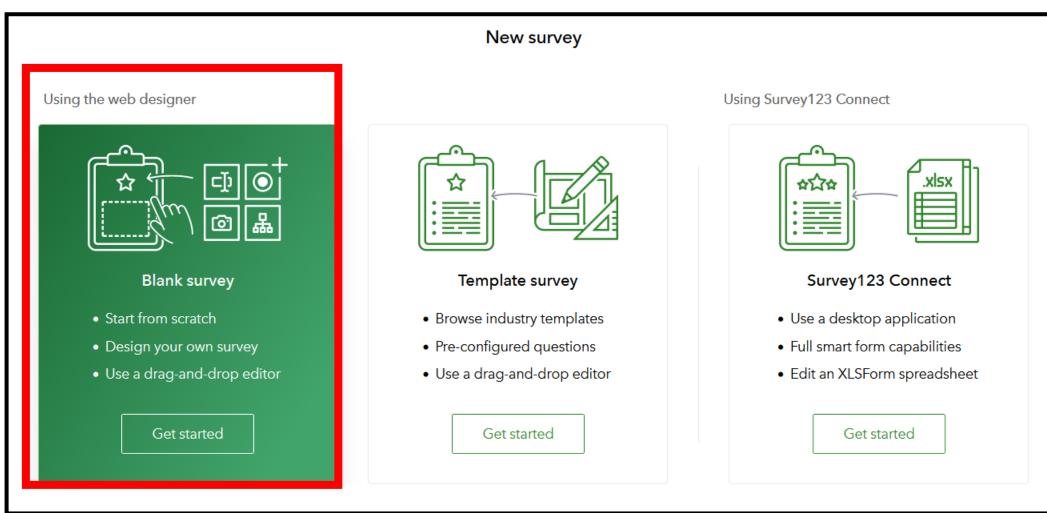
ArcGIS Survey123

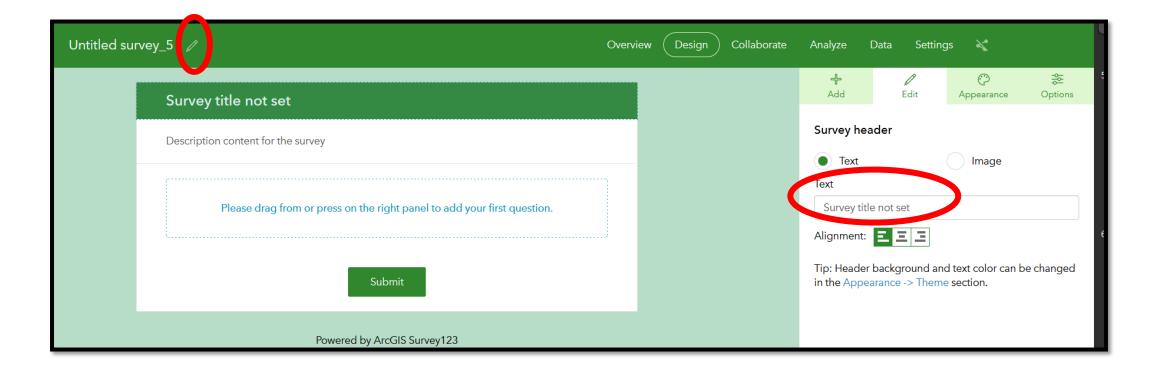
ArcGIS Survey123 is a simple and intuitive form-centric data gathering solution. Create, share and analyze surveys in just three easy steps.

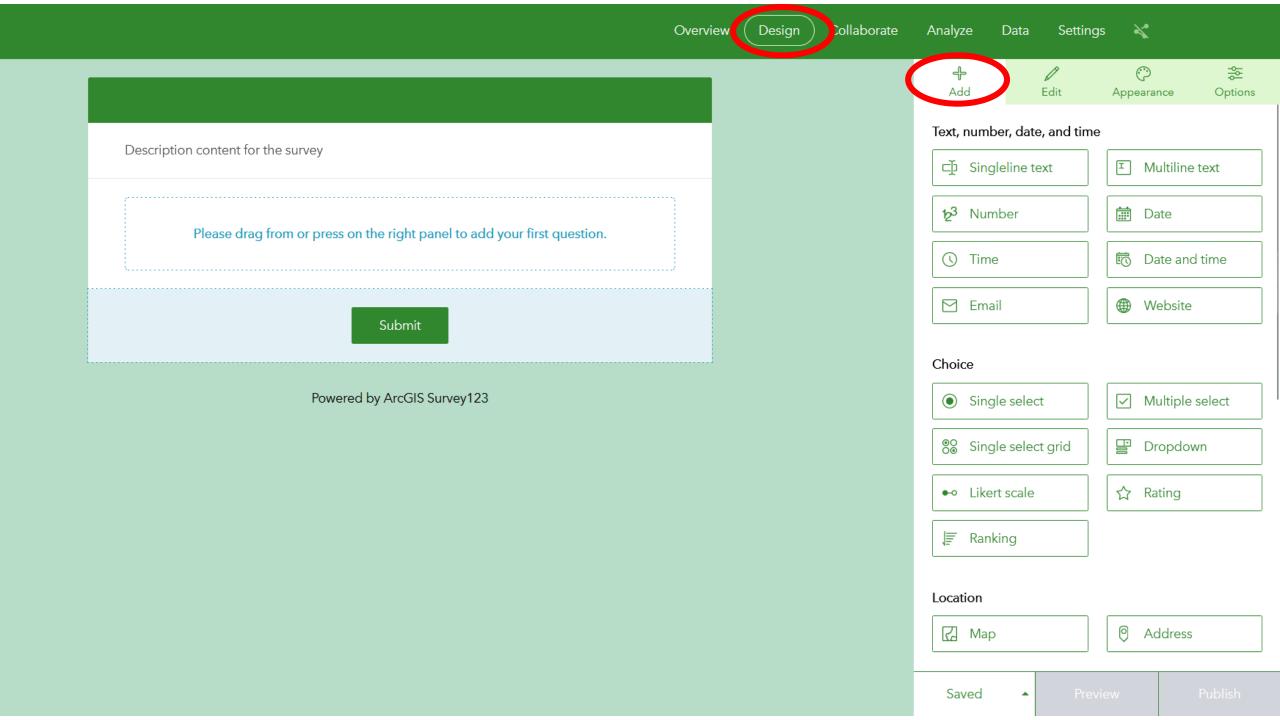
Learn more about Survey123

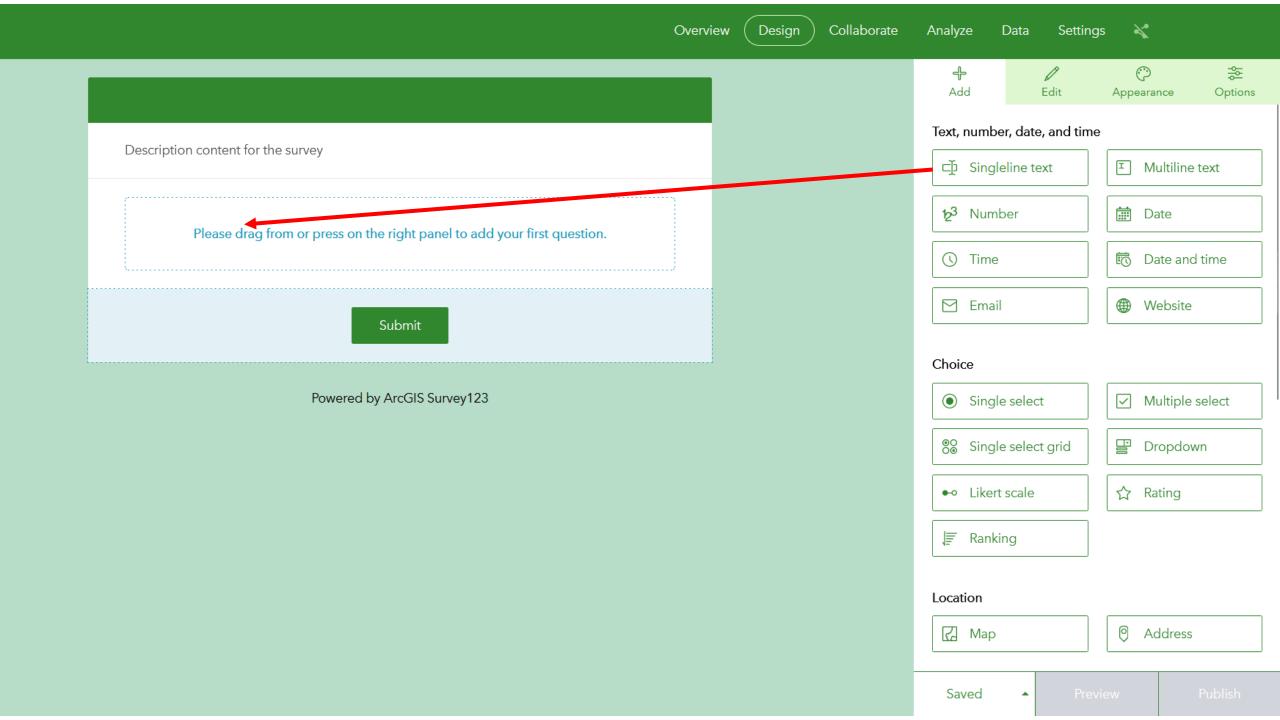
Sign In





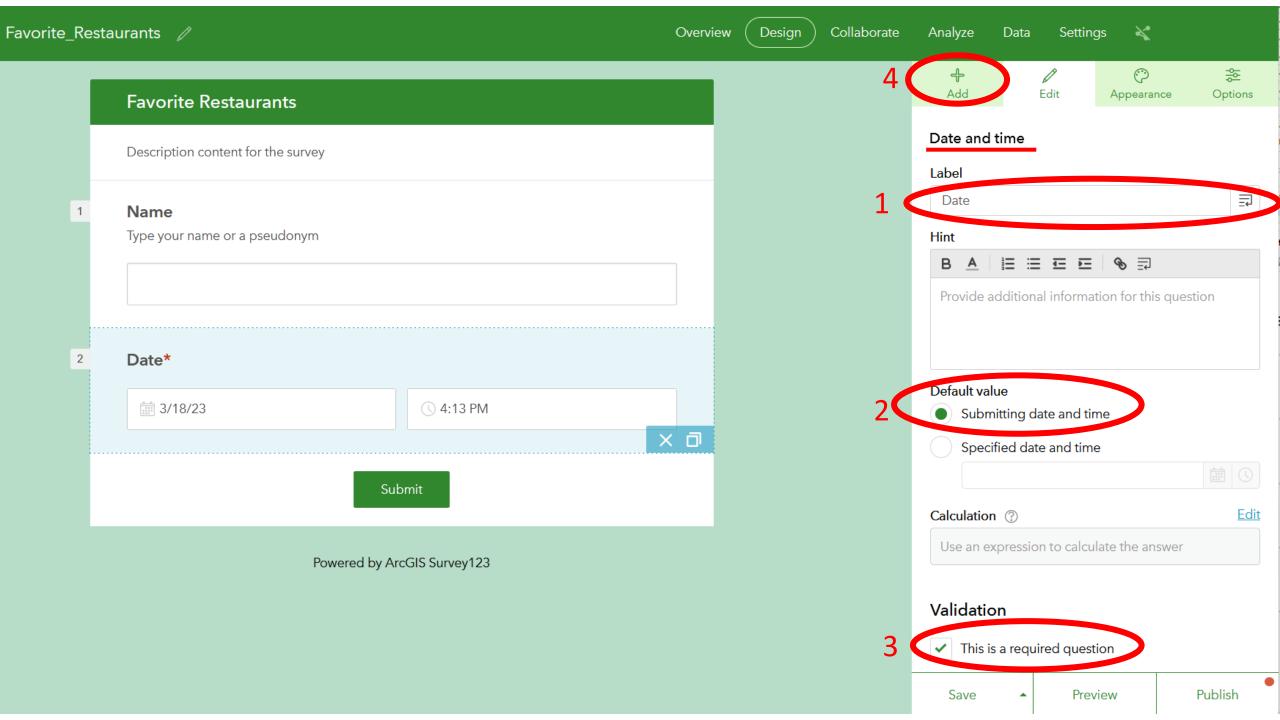


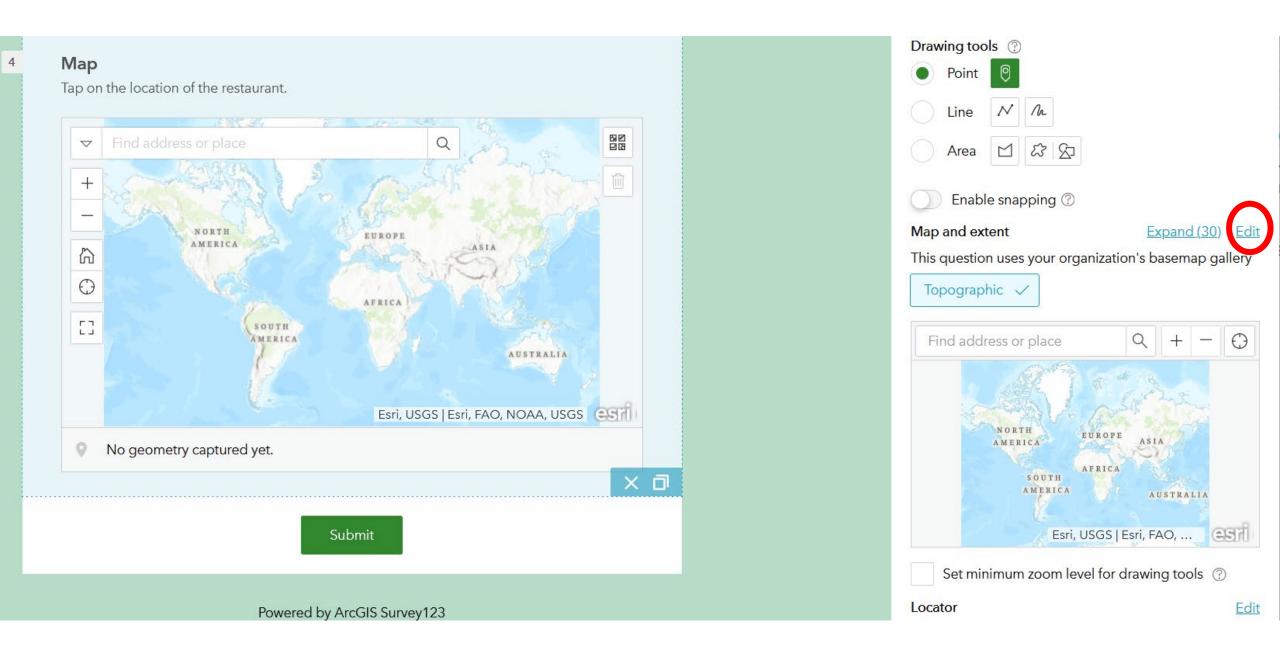


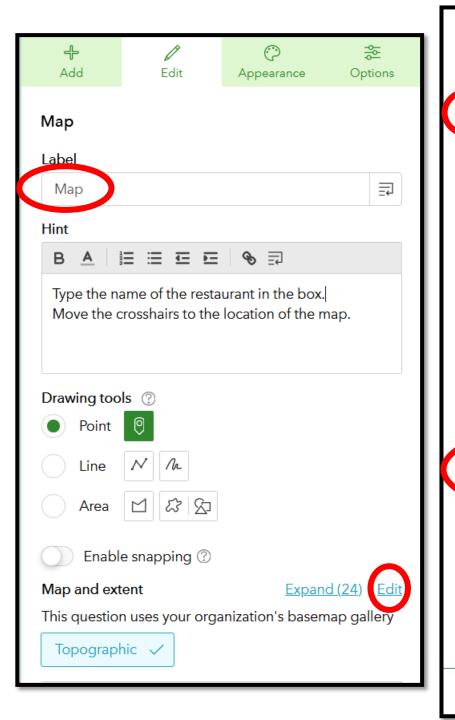


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	Powered by ArcGIS Survey123	Predefined answer for this question Calculation ③				
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		Set minimum and maximum characters count Minimum Save Preview Publish				

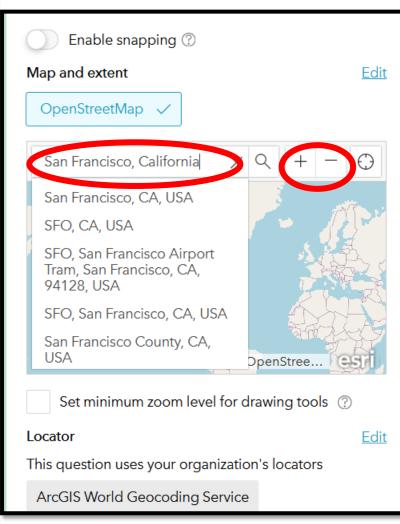
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Submit				Choice			
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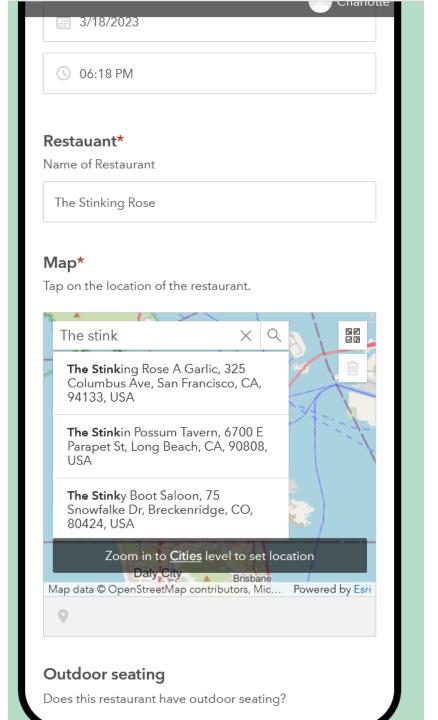
Choose map: Map Organization's basemap gallery -Use all contents below Search 1 Count: 24 By: esri_en Updated: Feb 22, 2023 Oceans By: esri_en Updated: Feb 22, 2023 **Topographic** By: esri_en Updated: Feb 22, 2023 USA **OpenStreetMap** By: esri_en Ø Updated: Feb 22, 2023 Locator National Geographic Style Map By: esri_en Updated: Feb 22, 2023 **Imagery Hybrid** By: esri_en d. Eab 22 202 OK Cancel



https://arcg.is/18SWr40



Take the survey



Chanotte
o no
O unknown
Cuisine*
elect one or more types of food, or type in other type
American 🔹
pical cost for dinner without alcohol per person Less than \$20
() \$20 - \$40
More than \$40
Submit
Powered by ArcGIS Survey123



/iew count: 0

Description

Add an in-depth description of the group.

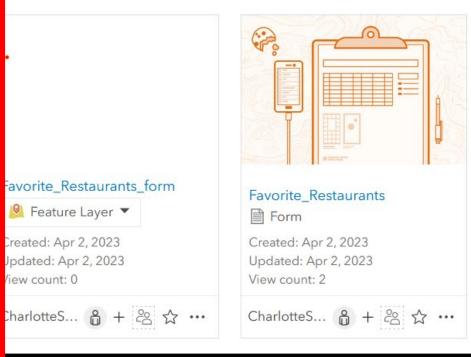
Recently added content



SF Restaurants 🔣 Web Map Created: Apr 2, 2023

Updated: Apr 2, 2023 View count: 0

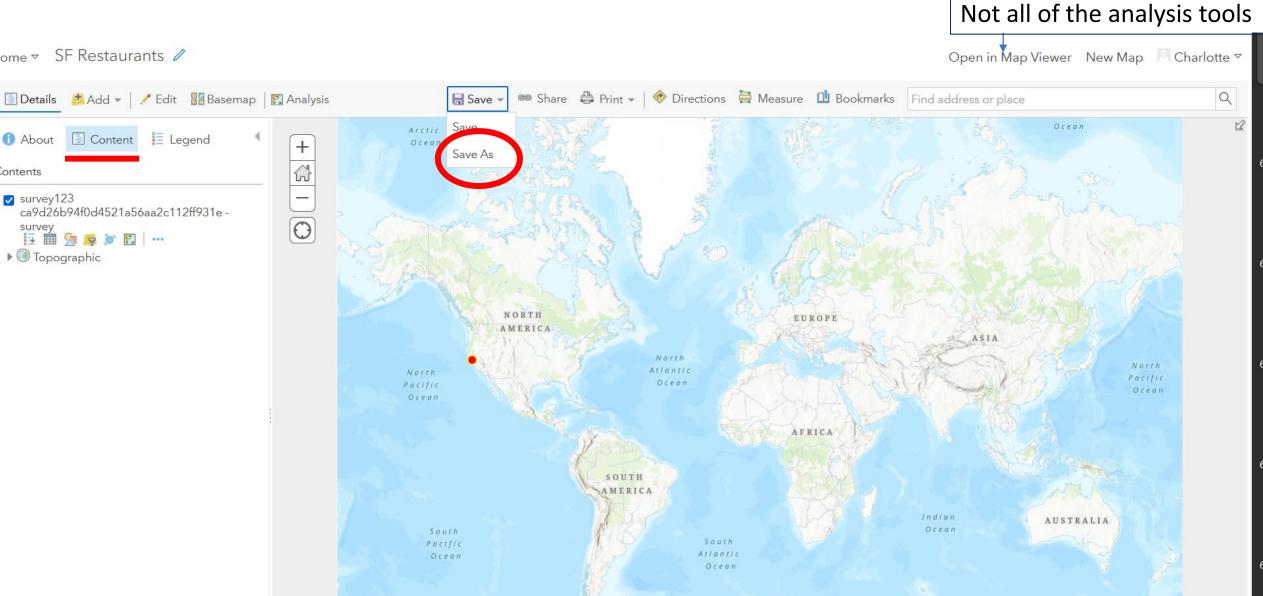
CharlotteS... 🔒 + 😤 ☆ …



Curate featured content

& Edit

Today we will use ArcGIS Map Viewer Classic



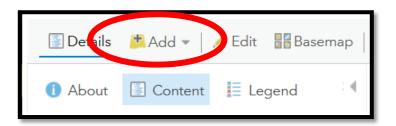
Home ▼ SF Restaurants ∥

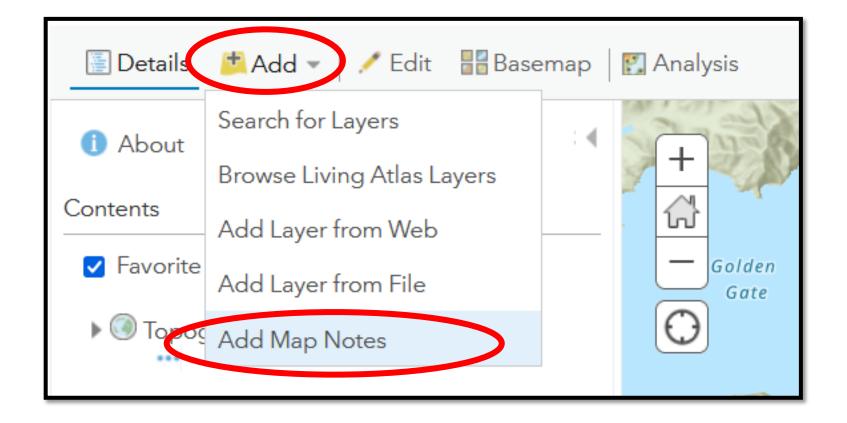
1 About

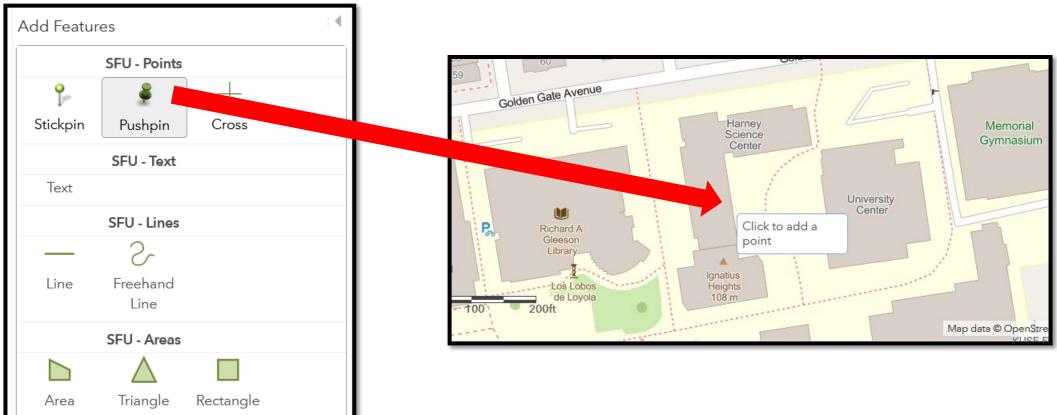
survey123

survey

Contents





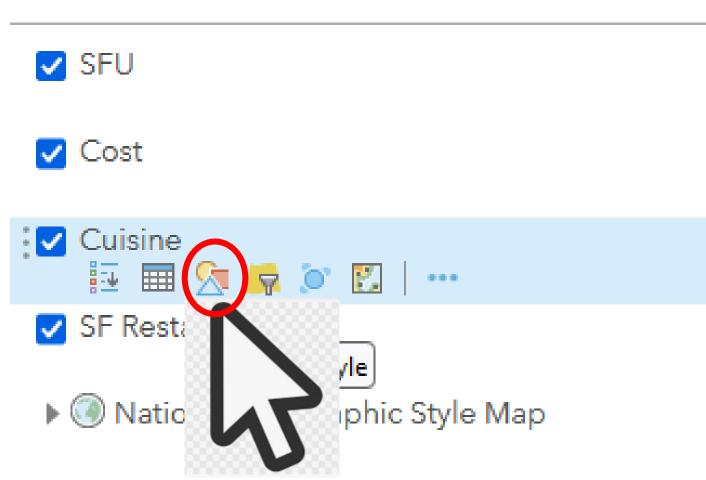


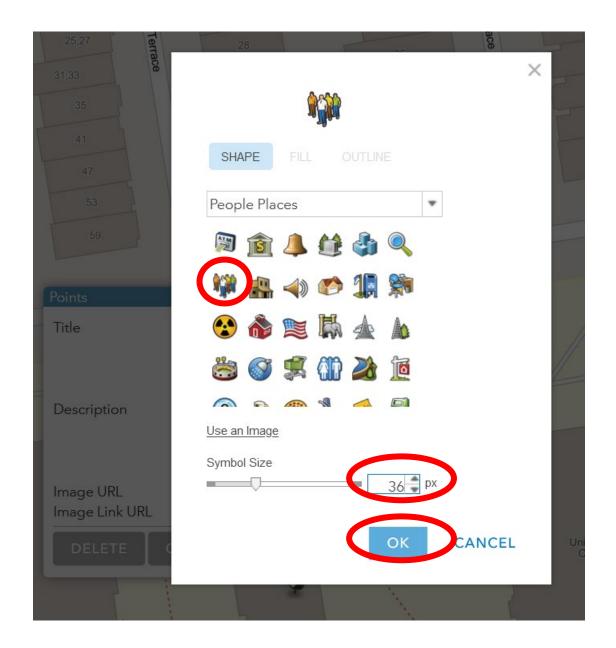
Click and drag the Pushpin

Double click to place it



Contents



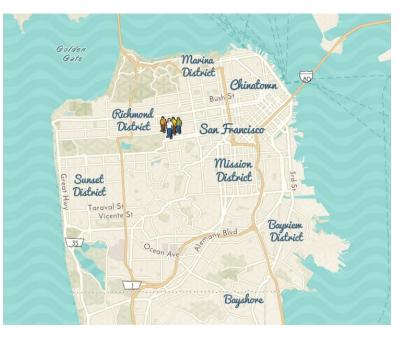


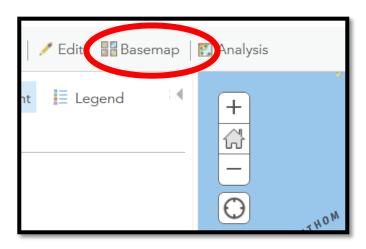
Maps – Display Data Attribute tables - Store Data



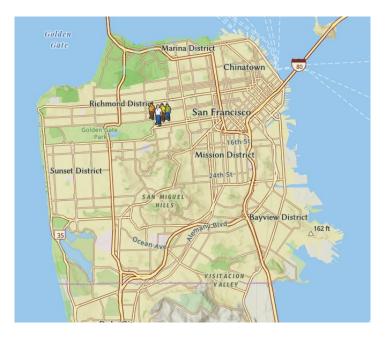
SF Employees' Favorite Restaurants (Features: 25, Selected: 0)

Name	Date	Restaurant	Outdoor Seating	Cuisine	Other - Cuisine	Cost	Comments
Charlotte Smith	4/2/2023, 12:00 PM	Stinking Rose	no	American		\$20 - \$40	
Bryn Miller	4/3/2023, 12:00 PM	Arizmendi Bakery	yes	Other		Less than \$20	Tasty cheap pizza and delicious baked goods!
Theary	4/3/2023, 12:00 PM	um.ma	yes	Other	Korean	\$20 - \$40	
Alan	4/3/2023, 12:00 PM	Diya	no	Other	Indian	\$20 - \$40	Delicious!
Maks Zherebin	4/3/2023, 12:00 PM	Sizzling Pot King	no	Chinese		\$20 - \$40	Love spicy!
Juell	4/3/2023, 12:00 PM	Pagan Restaurant	no	Other	Burmese	\$20 - \$40	
ana	4/3/2023, 12:00 PM	Boho Restaurant	yes	French		More than \$40	
Kai	4/3/2023, 12:00 PM	Yellow Submarine	no	American		Less than \$20	Sandwiches
Allison	4/3/2023, 12:00 PM	Foreign Cinema	yes	Mediterranean (Lebanese, Israeli, etc.)		\$20 - \$40	
Tara	4/3/2023, 12:00 PM	El Toro Taqueria	no	Other	Mexican	Less than \$20	
Chris	4/3/2023, 12:00 PM	PPQ Beef Noodle House	no	Other	Vietnamese	Less than \$20	Fresh ingredients, good neighborhood spot for pho
Styger	4/3/2023, 12:00 PM	Bissap Baobab	no	African		\$20 - \$40	Senegalese restaurant with

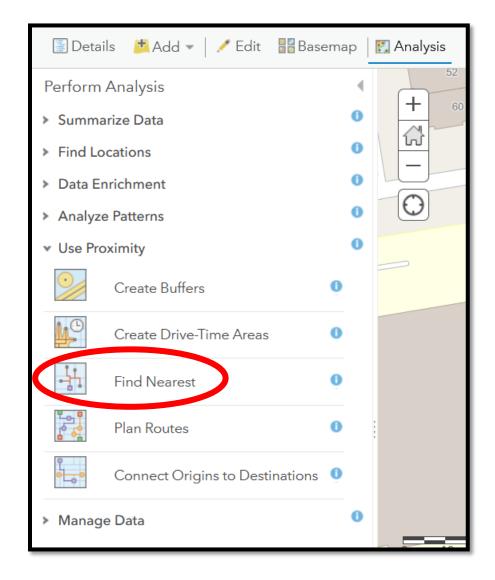


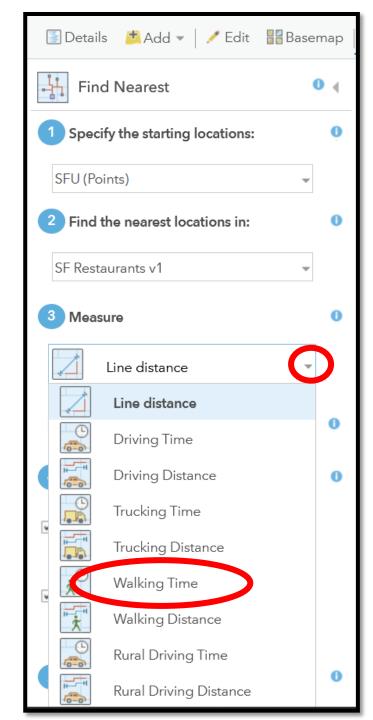


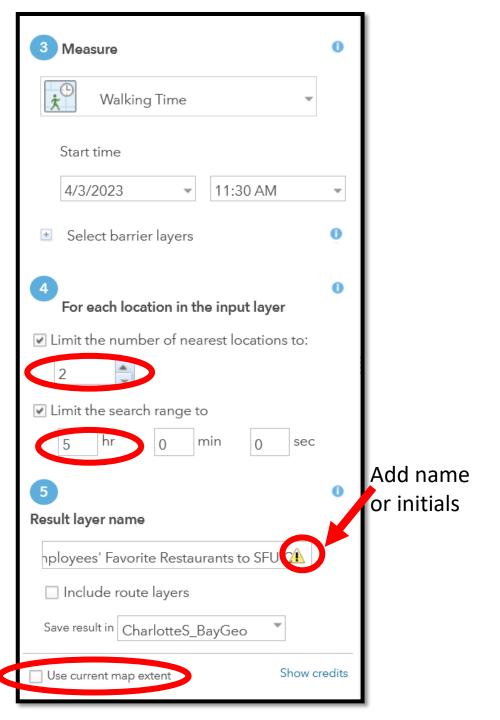




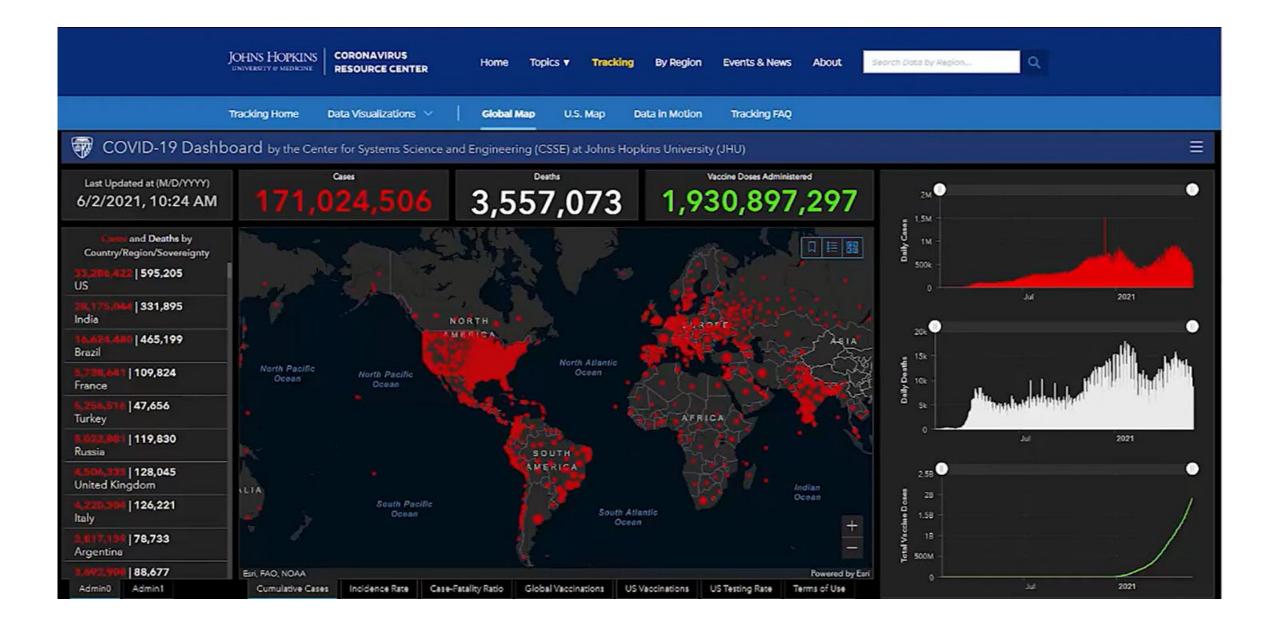
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SFU								
 SF Restaurants v1 Image: SF Restaurants v1 Image: Style Management National Geographic Style Management Perform Analysis 								











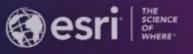
https://youtu.be/gz4DdFWlfWE

ArcGIS Dashboards: Designing Effective Dashboards

David Nyenhuis Soobin Choi







David Nyenhuis

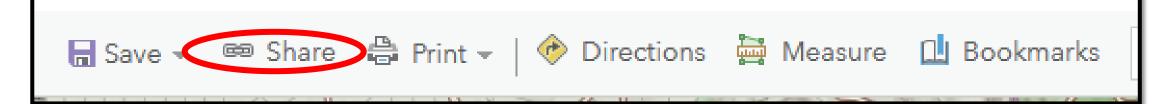
Soobin Choi

2021 ESRI USER CONFERENCE

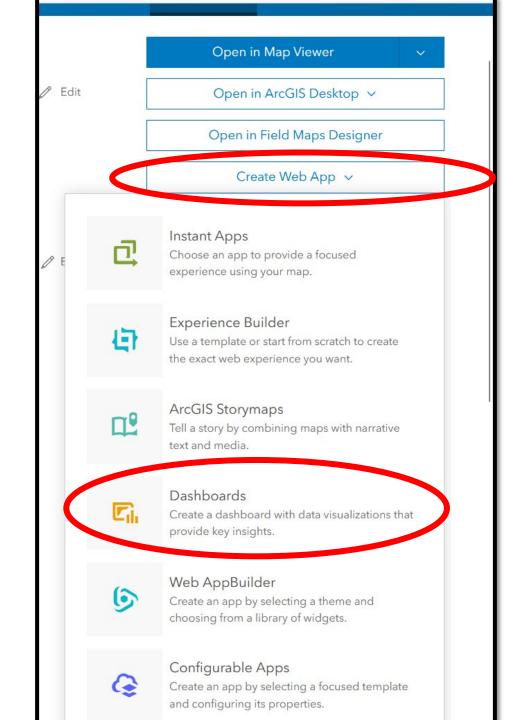
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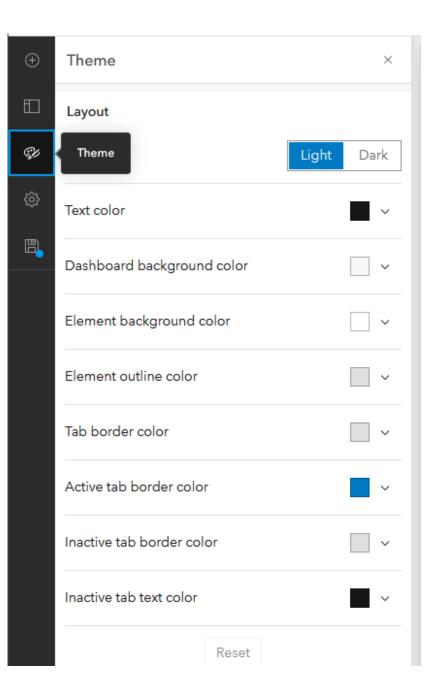
Groups of Dashboards

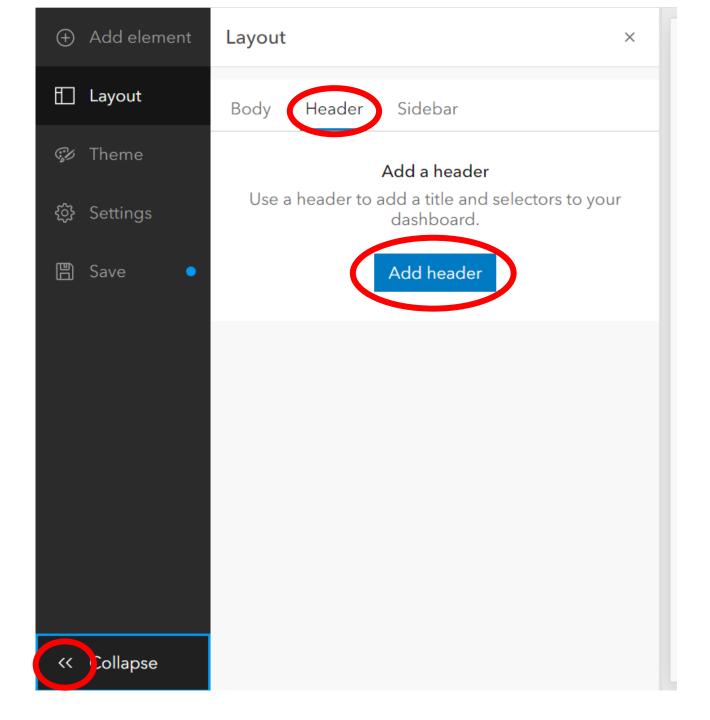
	Snapshot Dashboards	Monitoring Dashboards
Data	A snapshot of time. Data behind dashboard doesn't update. (e.g., findings from census 2020)	Updated intermittently or regularly (every second, hour, day, or month). (e.g., field data collection, COVID case counts)
Viewing Frequency	Once	Reoccurring (e.g., always open, daily, monthly)
Purpose	Inform, explain, persuade, analyze. (They can tell a story)	Inform, flag concerns, evaluate performance measures, provide progress update, analyze.
Style	Color can be used for branding and/or to emphasize important dimensions of the data.	Muted colored maps and visualizations with areas of interest or concern highlighted.

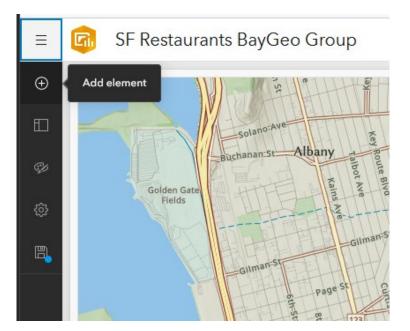


Share	×
Choose who can view this map.	
Your map is currently shared with these people.	
Everyone (public)	
University of California Berkeley	
Members of these groups:	
 150B_Fall2020 150B_Summer18 170_2017 Adopt-A-Catch Basin Adopt-A-Catch Basin Manager Ally_2021 ✓ BayGeoUSF_training 	
Link to this map	
https://arcg.is/11ybn91 👔 Facebook 💟 Twitter	
✓ Share current map extent	
Embed this map	
EMBED IN WEBSITE CREATE A WEB APP	
Note: To embed your map, you must share it with Everyone.	
	DONE

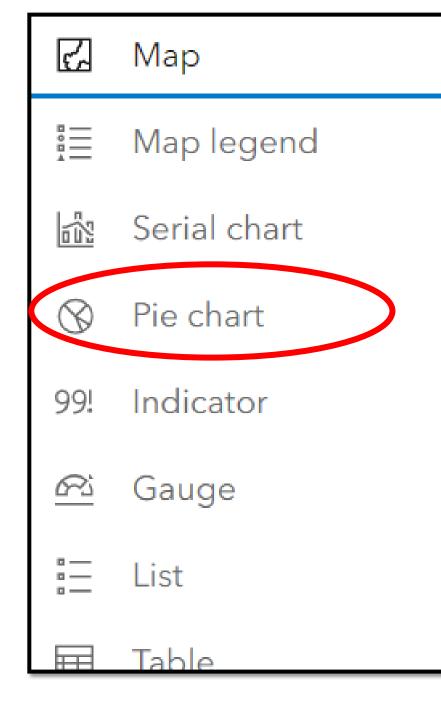




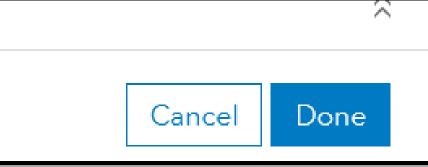


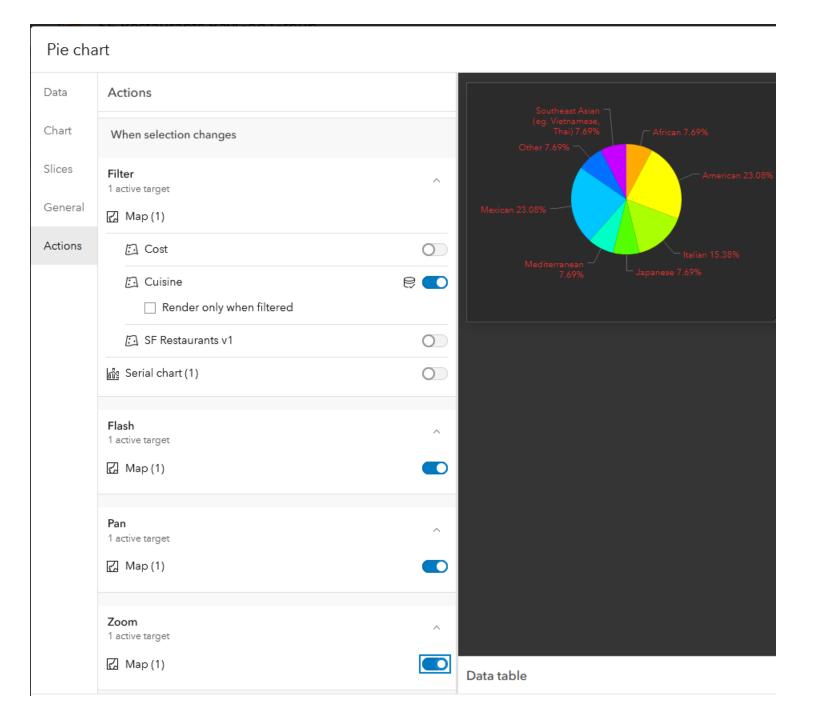


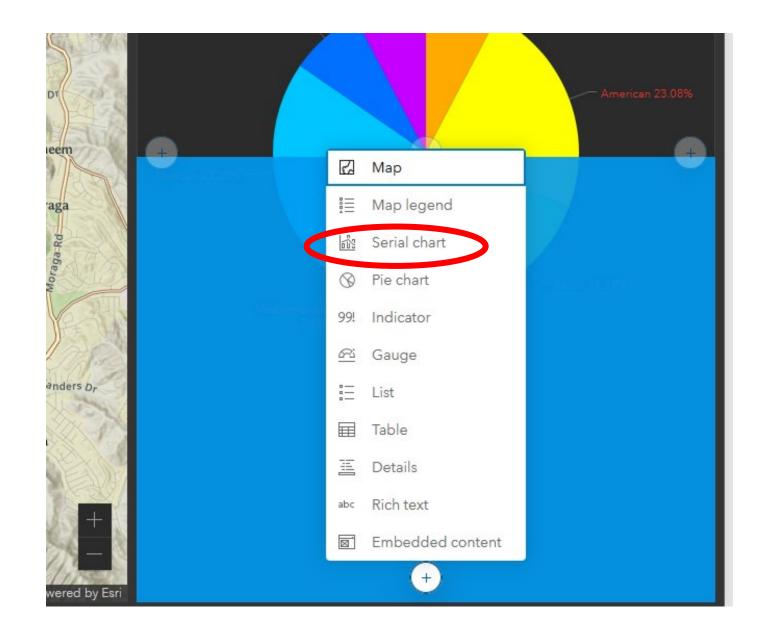
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	99!	Indicator
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Pie chart Data options Data Chart Layer: Cuisine Change Slices Filter + Filter General Categories from Actions Grouped values Fields Features Category field Cuisine \sim Statistic Count \sim Field PV ObjectID Add field 🗸 🗸 Sort by X

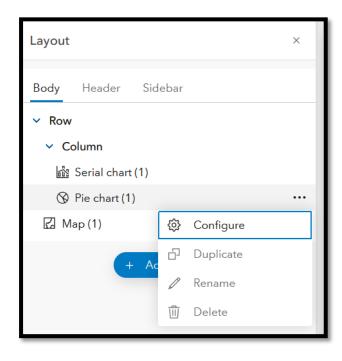


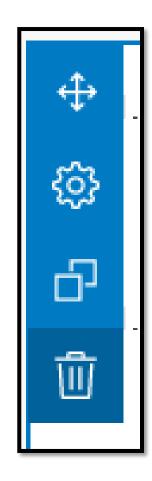




Serial chart

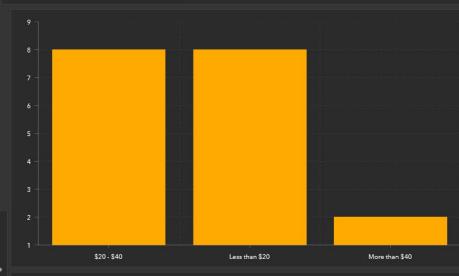
Data	Data options	
Chart	Layer: Cost	Change
Category axis	Filter	+ Filter
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Guides	Grouped values Features Fields	
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General	Average cost for dinner	~
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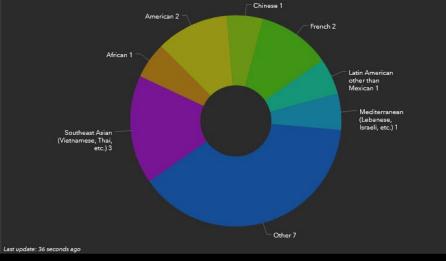


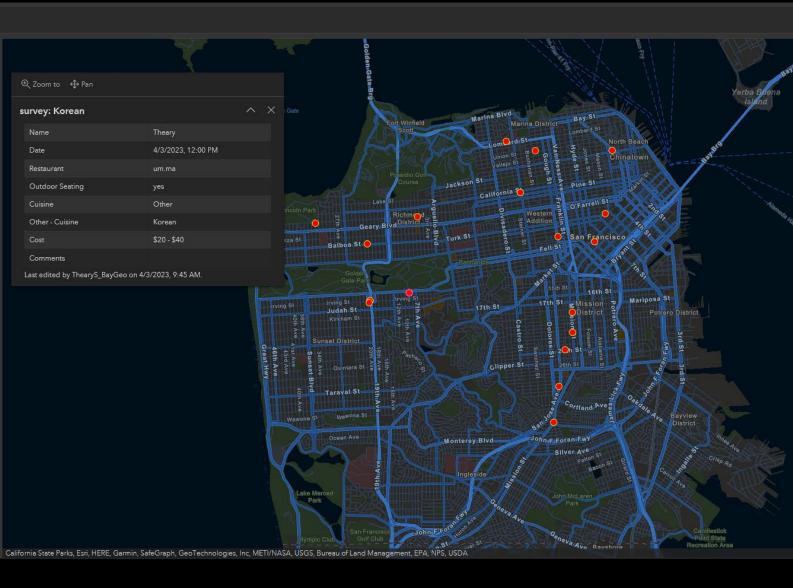


Sidebar	
Appearance	Restaurant Recommendations
Title	Minimize
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Restaurant Re	
div p span	
Description	
Text color	
Background color	■ ~
Collapsible sidebar	0

Our Favorite Restaurants









Shawn Morgan

Fleming College



Student Experience with Web-GIS Architecture and Services

By Shawn Morgan, Professor and Program Coordinator Post-graduate GIS Programs Email: <u>shawn.morgan@flemingcollege.ca</u> LinkedIn: <u>https://www.linkedin.com/in/smmorgan/</u> Links in presentation: <u>https://arcg.is/41jg6rj</u>





Different Types of Web GIS Users:





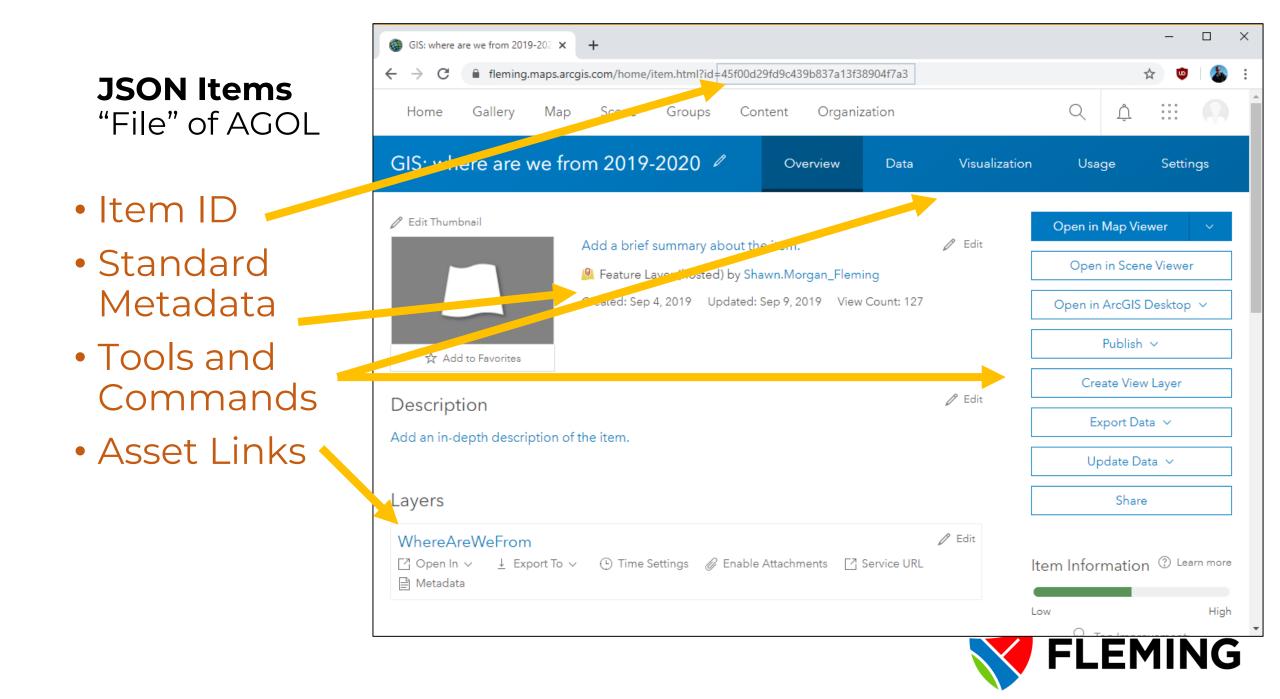


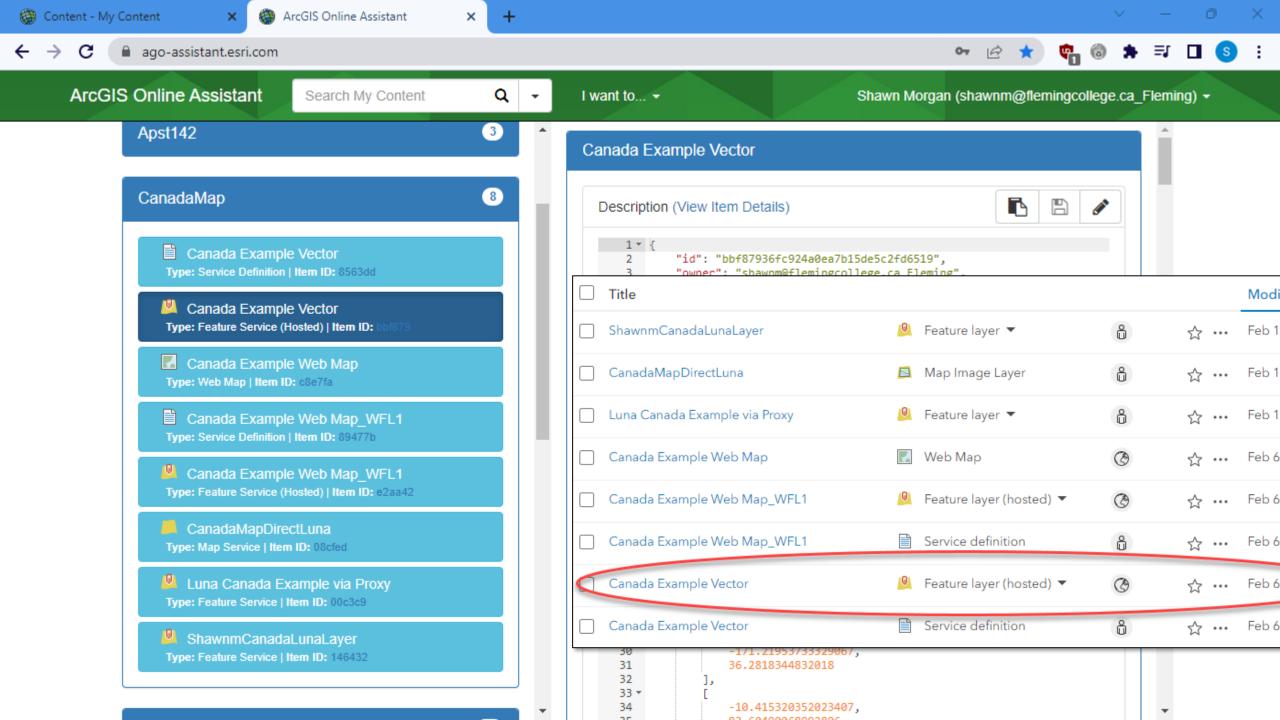
Users of GIS solutions

Introduction to GIS concepts

Managing and Creating GIS solutions

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Folders 📃 This PC		^	Туре	Compressed size	Password	
Q Filter folders	bjects Canad top Canad		CPG File DBF File	1 KB 1 KB	No No	Modified 🔻
	iments 📄 Canad		PRJ File SBN File	1 KB 1 KB	No No	•• Feb 15, 2023
☆ shawnm@flemir a_Fleming	Canad		SBX File SHP File	1 KB 1,399 KB		•• Feb 15, 2023
Apst142 Fictu Video		a.shp.xml a.shx	XML Document SHX File	3 KB 1 KB	No No	•• Feb 12, 2023
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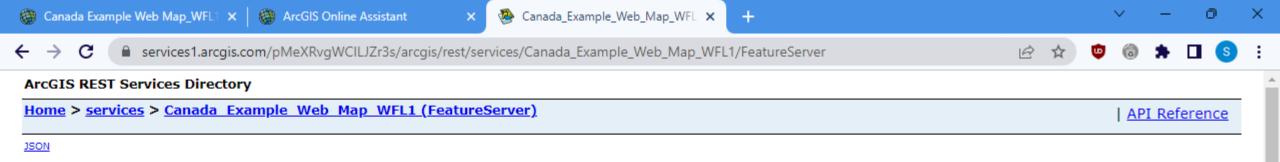




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                                                        https://developers.arcgis.com/documentation/core-
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Canada_Example_Web_Map_WFL1 (FeatureServer)

View In: Map Viewer

Service Description: Shared to ArcGIS Online as a Web Map

Service ItemId: e2aa4255adf34e9bb5859a77d95ffee3

Has Versioned Data: false

Max Record Count: 2000

Supported query Formats: JSON

Supports applyEdits with GlobalIds: False

All Layers and Tables

Layers:

- Canada Detailed (0)
- <u>Canada</u> (1)

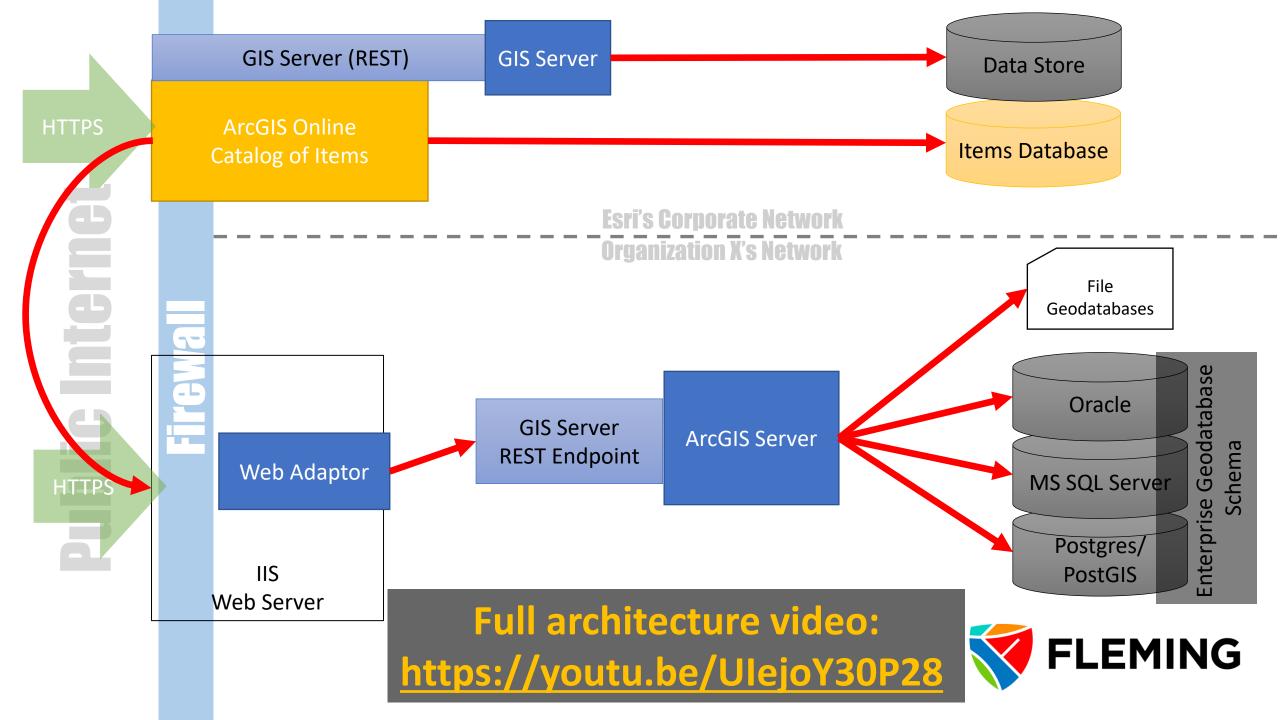
Description:

Copyright Text:

Spatial Reference: 102100 (3857)

Initial Extent:

This "REST" endpoint is Where the data are accessed Using a special URL called a "REST Request"





AppStudio



ArcGIS for Power BI



Developers







ArcGIS Online

CP

Collaborative

Projects

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Experience Builder

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GeoBIM

Instant Apps

1.

Map Viewer Classic

П9

ArcGIS StoryMaps

Dashboards

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Field Maps

Designer

GCX5

Geocortex 5 Web

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Living Atlas

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Maps for Adobe

Creative Cloud

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Field Maps Designer Early Access







Map Viewer



Marketplace





QuickCapture

Scene Viewer



F



All the "configurable" apps use the ITEM reference to access the Services Directory REST **Endpoint and underlying Data**

You can even configure apps to point directly to the REST endpoint



Fleming **Q**



Survey123

Learn How Map Services Work

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Project Map Insert Analysis View	Edit Imagery	Share				
Import Map New New New New Map ~ Layout ~ Toolbox ~ Import Map	Connections Add Folder Ma	Bright Dark M ap Notes Note		Map Paired Map Notes	Pastel Map Notes	Red Green Map Notes
Project	🔁 Database	>		Layer Templates		
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How-to video: https://

Web GIS: Level Up Student Experiences

01

ArcGIS Online: Use Hosted Feature Layers and Maps 02

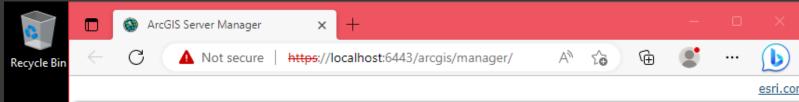
ArcGIS Server: Publish Map Services, Use these in ArcGIS Online

03

ArcGIS Server: Administer and Manage the environment

04

ArcGIS Enterprise: Publish, administer, manage and configure



PDF Fleming ITS Appropria.

7 ArcGIS Serve

How to provide an administration experience Without risk to your academic environments?





Canada.zip



ArcGIS Server Manager
Enter your ArcGIS Server username and password:
Username:
Password:
0

JSON SOAP
Folder: /
Current Version: 11.0
View Footprints In: ArcGIS Online Map Viewer
Folders:
• <u>Utilities</u>
Services:
<u>SampleWorldCities</u> (MapServer)
Supported Interfaces: REST_SOAP_Siteman_Geo_Siteman

ArcGIS REST Services Directory

Home > services



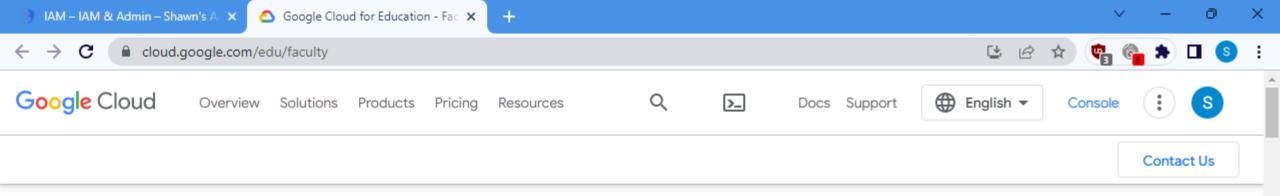




Hands-on Administrative Experience

- Use cloud-based environment virtual-machines (AWS or GCP)
- Configure a Windows VM with ArcGIS Server as a base
- Create Image for students to start with your configured VM
- Students copy and start their own VM using your base
- Students configure their own network, provide a domain and SSL certificate
- Students then can explore the software as a full "administrator"





Help your students grow cloud skills at no cost and earn prizes on The Arcade. Play today!

Google Cloud for Faculty

Teach your students with Google Cloud and prepare them for the cloud-first world. Access Google Cloud credits, training, curriculum, and communities at no cost.

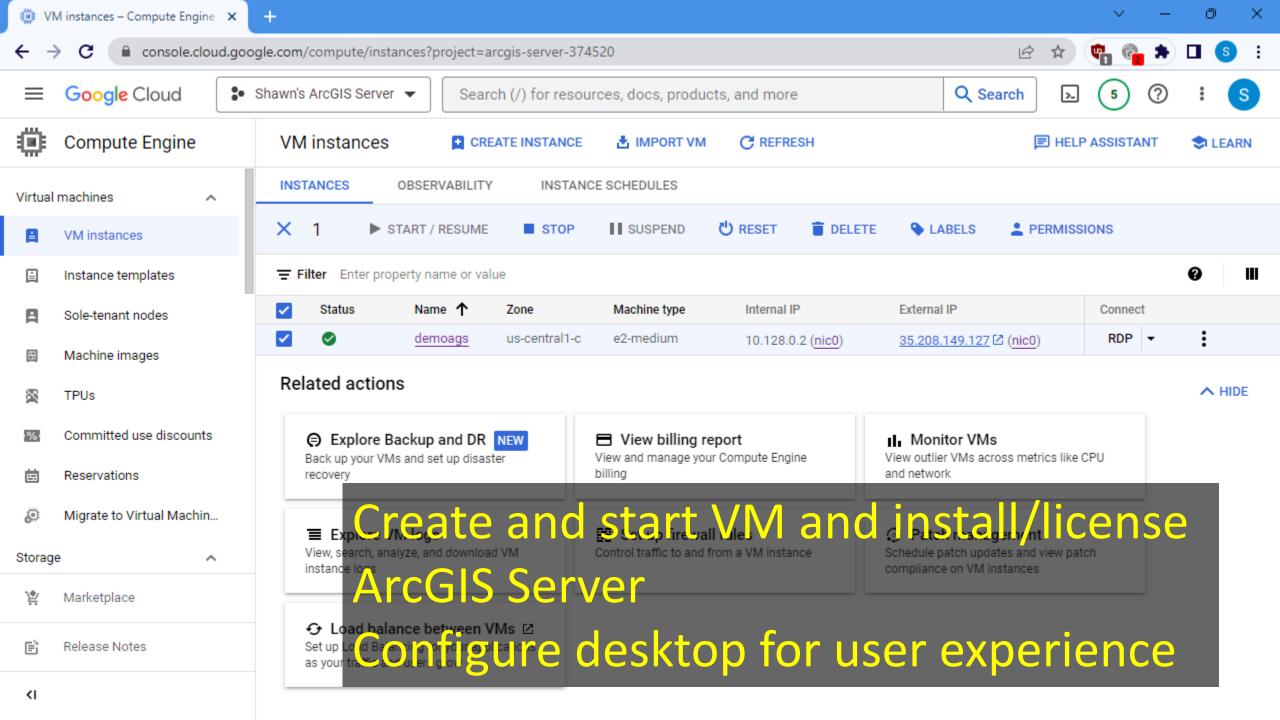
Inspire students like these who created an app to help the hearing impaired

Optional: Apply for student credits https://cloud.google.com/edu/faculty

Access resources

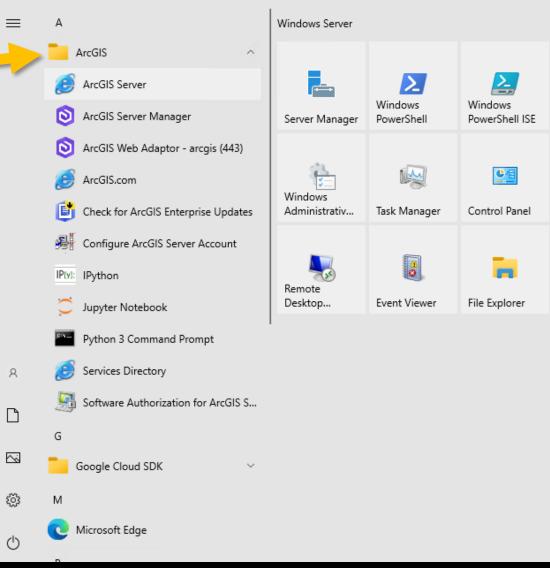
Apply for teaching credits

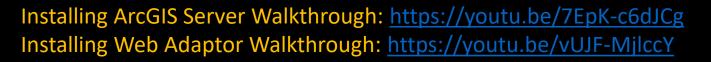
Apply for training credits



Install and license – ArcGIS Server (non-federated)

Students will get a copy of this Virtual Machine as an IMAGE

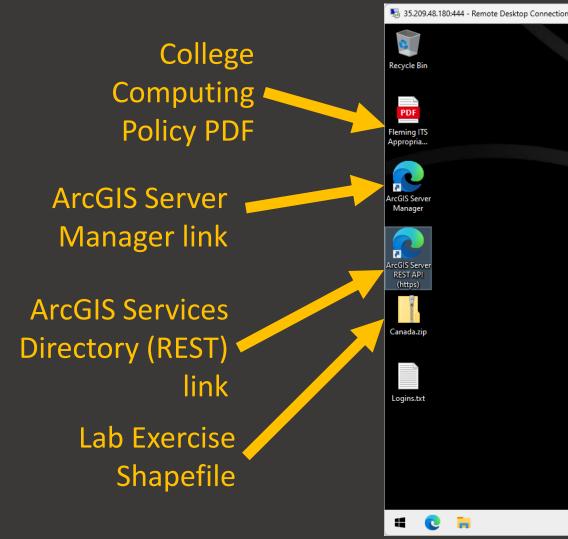








Prepare the VM for your students





Highly configured windows environment

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¢	Manage Resources	Some permissions might be associated with and checked by third parties. These permissions contain the third party's service and permission prefix.		
, III	Release Notes	Students to "see" configured	Imag	ge
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θ	Identity & Organization	Permissions for project "Shawn's ArcGIS Server"	
٩	Policy Troubleshooter	These permissions affect this project and all of its resources. Learn more	
Ę	Policy Analyzer	Include Google	e-provided role grants 😮
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۰	Settings	Add students' "Gmail" accessed and students' "Gmail" access	count
۵	Manage Resources	a generation to the role for access	
Ē	Release Notes		
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Geom99-ArcGIS Server on GCP Creating an image and logging in on Google Cloud Platform



Contents

Getting GCP Credit and Creating your First Project 2
Create a GCP Project (if needed) 2
Run a GCP Virtual Machine to test ArcGIS Server
Part 1: Setting a GCP Firewall Rule to allow ArcGIS Server Management Ports
Part 2: Setting a Windows Firewall Rule to allow ArcGIS Server Management Ports
Starting an existing/shut down Virtual Machine on GCP17
Remote Desktop to a Virtual Machine Desktop 18
Turning off the VM when not in use 23
Turn off using a Windows Desktop Console 23
Turning off using the GCP Compute Engine Console (recommended method)
Open ArcGIS Server REST Service directory with self-signed certificate

Students are provided with step-by-step instructions

fleming.desire2learn.com/d2l/common/popup/popup.d2l?ou=187556&queryString=&footerMsg=&buttonOffset=0&popBodySrc=/d2l/lms/checklist/previewchecklist.d2l%3Fou%3D187556%26chec...

Week 7 and 8: ArcGIS Server on Google Cloud Platform

Start your own ArcGIS Server on GCP

(Start) Start using your own ArcGIS Server hosted on the Google Cloud Platform (GCP). You first will request a \$50 academic credit from google using the instructions which should cover all your use here.

- Video 1: Requesting credits (should have been completed last week): https://youtu.be/
- Video 2: Creating and using the provided image: https://youtu.be/
- Video 3: Using DuckDNS to create free DNS entry pointing to temporary IP address: https://youtu.be/
- Video 4: Optional step to obtain SSL certificate, see recommended section of checklist!

Key Details

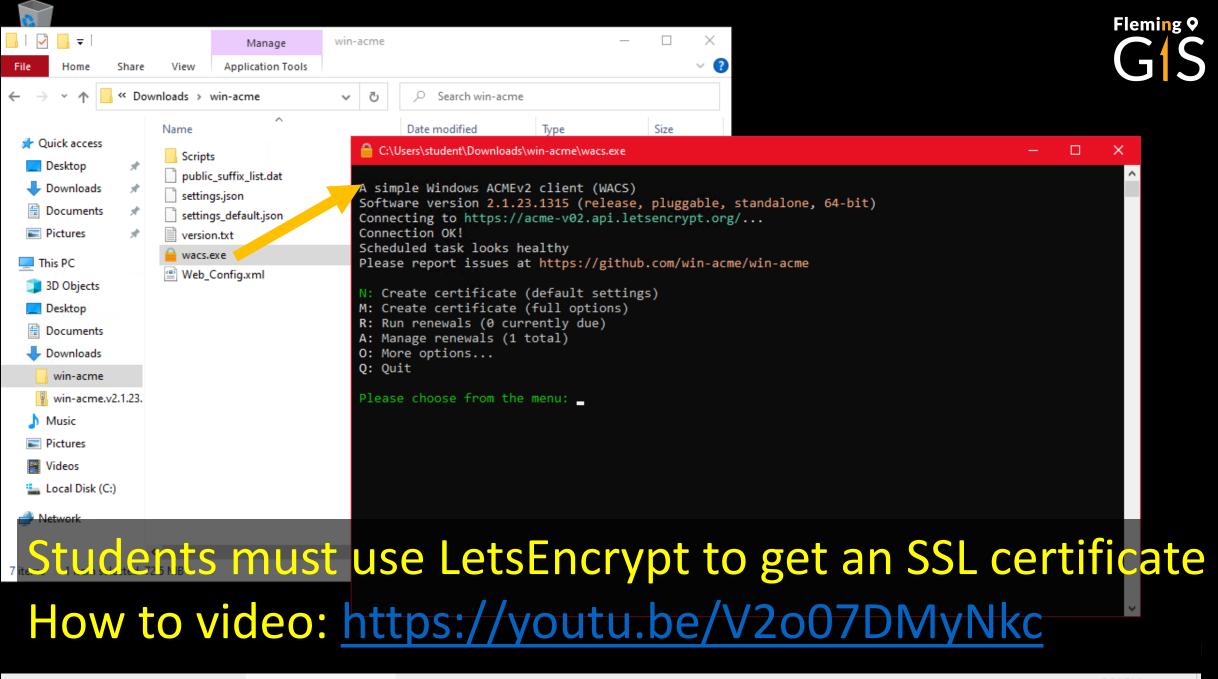
VM Image Username and Password Defaults:

Windows Username: student Windows Password: reset using instructions provided ArcGIS Server Username: siteadmin ArcGIS Server Password: Students are also provided an overview

It's running, now what'In a LMS checklist, walk-through videos

Now that it is running "play" with your VM, testing out different items. Just remember, once your VM is shut down it will no longer respond to requests (since it isn't listening when off!). Continue with the Berkit hese in the second off. Continue with the second seco

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logged in with
Duck DNS account type token token generated created date
as for geom99.duckdns.org updated to 35.208.149.127
ipv6 changed
Students use DuckDNS to have we address domain name for dynamically-assigned IP address



win-acme

What Now?

Fleming **°**

- Students have their own fully-functioning live ArcGIS Server to explore
- They can publish various types of data to the server
- Use these published services in ArcGIS Online, explore all functionality and options in the publishing and maintenance
- They also experience the versatility of cloud enterprise architecture

Publishing to ArcGIS Server Walkthrough: https://youtu.be/nIRIZN9ECwY



Fleming **Q**

Thank You

Resources and Links in presentation: https://github.com/shawnmflemingc/faq/esriwebgis.md Shortened URL: https://github.com/shawnmflemingc/faq/esriwebgis.md

Email: <u>shawn.morgan@flemingcollege.ca</u> LinkedIn: <u>https://www.linkedin.com/in/smmorgan/</u>





Rodolfo Franco

District University in Bogotá, Colombia

SOME OF MY GIS CLASS ONLINE RESOURCES

Rodolfo Franco GIS Professor District University Bogotá, Colombia

MY GIS CLASS CONTEXT

. .

Forest engineering career

10 semesters career (5 years)

GIS course is in the fourth semester

Preview: cartography and remote sensing

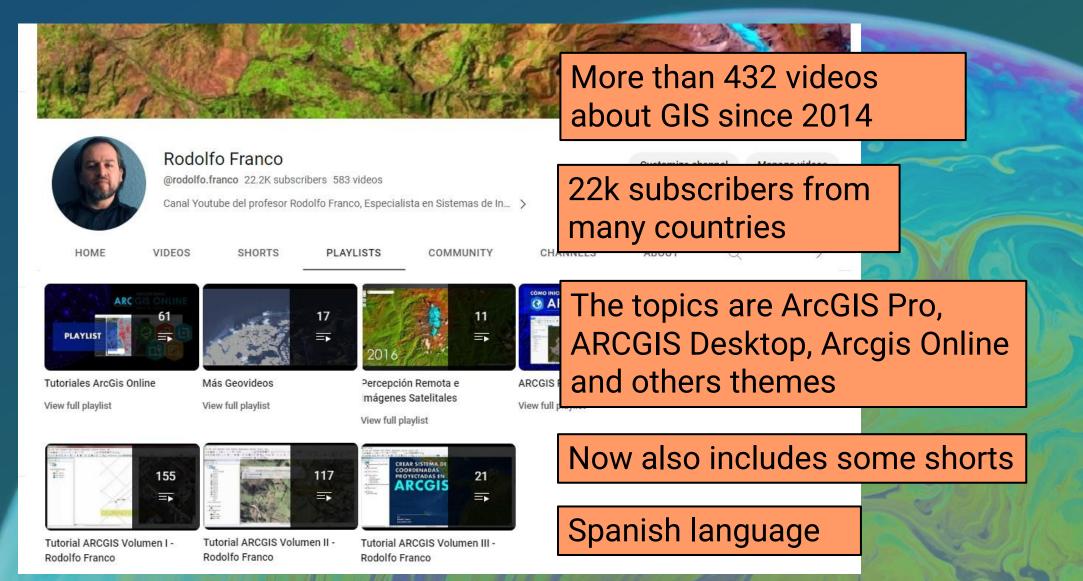
Many years ago this class was optional, now it's required

In Colombia there are good job opportunities in GIS

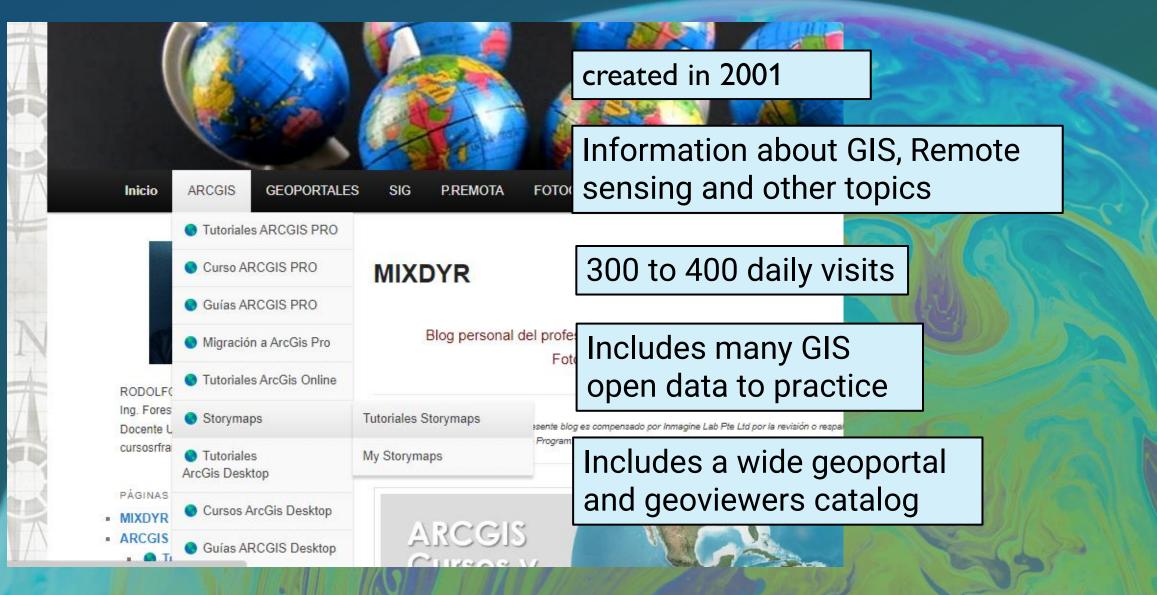
MY MAIN ONLINE RESOURCES TO SUPPORT MY CLASS ARE:

- A YOU TUBE CHANNEL
 A WEB PAGE
- A STUDENT'S GALLERY
- WEBMAPS AND INSTANT APPS
- OTHER ESRI SERVICES

A YOUTUBE CHANNEL







A STUDENT'S STORYMAPS GALLERY



It's a gallery is for selected works

The purpose is to motivate the use of storymaps

Students choose free topics as their hobbies and skills





Lugares para conectar cor naturaleza cerca de

6 lugares cerca de Bogotá para desconectarse del caos de la ciudad

Mónica Mora Alfonso 26 de septiembre de 2022

Bogotá

WEBMAPS AND INSTANT APPS

≡ Origen de Coordenadas Resol.471 de 2020 IGAC





Origen único de coordenadas para cartografía básica oficial de Colo según Resolución 471 del 14 de m

2020 del IGAC

Latitud: 4°

Amenaza Volcán Nevado del Ruiz, vectorizado por Rodolfo Franco de original del SGC

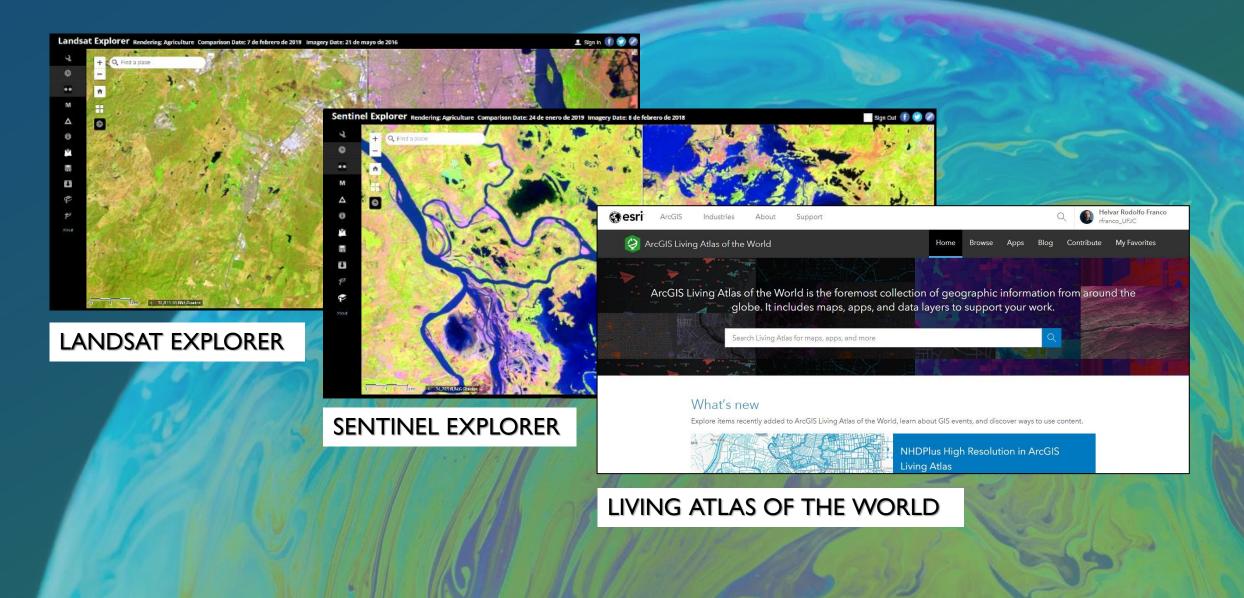
Filadelfia Maruland Anterna ueblo Ricc Santuar LaCella ELAguille Murillo Flanda

I show students how easy it is to create content online using instant apps

ESRI templates are easy, fast, and intuitive to use

Students take advantage of having an educational account

ANOTHER ESRI ONLINE RESOURCES



To finish I want to show live something of what I have said...

CONTACT

Rodolfo Franco rfranco@udistrital.edu.co

https://mixdyr.wordpress.com

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



THANKS

Resources

- Modern GIS Tutorial Series
- Esri Academy
 - Labs,
- Esri Press
 - GIS 20
 - Getting to Know Web GIS
 - GIS Tutorial for ArcGIS Pro
 - Spatial Statistics Illustrated
- Esri Community blogs, tips, tricks, etc.
- Higher Ed Chat monthly webinars
- EdSummit / UC





Thanks so much!

Any Questions?



Brian Baldwin

bbaldwin@esri.com baldwinbrian