

How to Make Your Own GIS Dashboard

-Take the Coronavirus Dashboard as an Example.

In our daily work, in the era of big data, we are often bothered by the form of data expression. Large amount of data, many kinds of data, data presentation styles, and layout of charts will always delay time and fail to show good results.

With coronavirus becoming a hot topic in the world recently, governments and companies in various countries have set up their own coronavirus dashboard. Do you want to make your own one?

The SuperMap iPortal provides you with the out of the box SuperMap iPortal WEBAPP - MapDashboard, which provides you with convenient drag and drop components and can easily build a beautiful dashboard. Mapdashboard can show the charm of GIS spatiotemporal data visualization. At the same time, it can help GISer easily build a web dashboard application with a professional and beautiful map, support a variety of data types, and meet your different visualization needs. Just move the mouse like making PPT, you can get a beautiful dashboard.



Now follow me to create your own coronavirus dashboard. Or you can watch the operation tutorial from: <u>https://youtu.be/QjiMW5yQdWY</u>



1. Software Preparation

We need to download and configure SuperMap iServer, SuperMap iServer Datastore and SuperMap iPortal to establish our own GIS cloud platform. We only need to do it once and in



the future we can use them directly and make different dashboard.

(1) Download link:

iServer: <u>https://drive.google.com/open?id=1BMvfu1hS99lbLYs8x5rZrauP3COmijY5</u> iServer Datastore:

https://drive.google.com/open?id=1BHbsWKplbC5-Wxpi-B0QJghSAdKtzCEk

iPortal: https://drive.google.com/open?id=1OzBoKiTmsJkEhcRR9g304GPbBr5a94tC

- (2) Configuration
 - ① Startup all these three products.
 - 1) iServer Datastore:

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ontext hierarchy] and template loader path [classpath:/templates/]			
2020-3-11 09:50:22 - INFO - ClassTemplateLoader for Spring macros added to FreeMarker configuration			
2020-3-11 09:50:22 - INFO - Registering beans for JMX exposure on startup			
2020-3-11 09:50:22 - INFO - Tomcat started on port(s): 8020 (http)			
2020-3-11 09:50:22 - INFO - Started DataStoreApplication in <u>3.357 seconds</u> (JVM running for 4.271)			
2020-3-11 09:50:23 - INFO - iServer DataStore应用启动成功. 服务地址为: http://10.10.3.14:8020			
			~

2) iPortal:

■ iPortal G:\6_软件\疫情大屏\supermap-iportal-10.0.1-win64-deploy	<u></u>		×
ml] 11-Mar-2020 09:50:43.918 信息 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDescript [G:\6_软件\疫情大屏\supermap-iportal-10.0.1-win64-deploy\conf\Catalina\localhost\iportal#iClient.xml]的部署 完成	。 它在	『署描i [185]m	▲符 ™内
/0/M 11-Mar-2020 09:50:43.918 信息 [localhost-startStop-1] org.apache.catalina.startup.HostConfig.deployDirector 程序部署到目录 [G:\6_软件\疫情大屏\supermap-iportal-10.0.1-win64-deploy\webapps\iportal] log4j:WARN No appenders could be found for logger (org.eclipse.jetty.util.log). log4j:WARN Please initialize the log4j system properly.	y 把	<i>r</i> eb 应	用
LSF4]: Failed to load class 'org.slf4]:impl.StaticLoggerBinder'. SLF4]: Defaulting to no-operation (NOP) logger implementation SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details. 2020-3-11 09:52:54 - WARN - Explicit INI instance has been provided, but configuration locations have also	been	speci	fie
d. The org.apache.shiro.web.env.lni₩ebEnvironment implementation does not currently support multiple Ini of is may be supported in the future. Only the INI instance will be used for configuration. 11-Mar-2020 09:54:20.146 信息 [localhost=startStop-1] org.apache.catalina.startup.HostConfig.deployDirector of web application directory [G:\6_软件\疫情大屏\supermap-iportal-10.0.1-win64-deploy\webapps\iportal] has	onfi y De fini	g, but ployme shed i	th nt n[
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ms 11-Mar-2020 09:54:20.208 信息 [main] org.apache.coyote.AbstractProtocol.start 开始协议处理句柄["http-nio-81 11-Mar-2020 09:54:20.233 信息 [main] org.apache.catalina.startup.Catalina.start Server startup in 217289 me 11-Mar-2020 09:54:23.524 警告 [qtp2112250954-199] org.geotools.referencing.operation.projection.MercatorPse pherical.Inverse.transform Possible use of "Popular Visualisation Pseudo Mercator (Inverse transform)" proj	90″] udoP ecti	rovide on out	er\$S sid
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3) iServer:





(2) Visit the home page of iServer at <u>http://localhost:8090</u>, then create administrator account.

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Welcome to			
SuperMap iServe	er 10i		
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development platform			
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Services	Manager	Sample Code	
Access REST services, such as Map Service, Data Service, Analysis Service, 3D Service, etc., and 0000 catediand access and access and access a	Publish GIS Services quickly. Manage all your GIS Servicles. Operate and manage the whole	for Leaflet for OpenLayers for MapboxGL (Client3D for WebGL	
and Uou, standard services.	uis server. Manare GK Server 5		



③ Visit the home page of iPortal at <u>http://localhost:8190</u>, then create administrator account.

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← → C (D) localhost:8190/iportal/			아 및 ☆ 😝 :
	Cased Account Clear Enveryment Cased Account to login Support Vou need to create an administrator account to login Support Administrator Passwort: Confirm passwort: 	Check Lucente sunt pi iPortal service managet: Create	
Welcome to SuperMap iServer × B Home × +			- σ ×
← → C ③ localhost:8190/iportal/web-ul/home			⊶ ☆ ⊖ :
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	Hot Resource	es	

④ Visit the home page of iServer Datastore at <u>http://localhost:8020</u>, then configure iServer path, administrator account, content directory (keep default is ok), and datastore type (Relation).



 	X 🚯 iServer DataStore configuration X +	- σ × ⊶≊☆Θ:
	assigning content directory Creating ISever DataStore, contents directory is used for saving data.jbgs.abcup.flest.etc. content content directory: E1/2_Products/2_ISever/supermap-iserver-1 directory: Exec	
Welcome to SuperMap iServe: x I B Home ← → C O localhost:0020/datastore	X 🚯 idense Datastore configuratio X +	- 0 ×
	IServer DataStore Type Select a Server DataStore type to configurate: #Relation Brany The Cache Spatiotemporal	
🚯 Welcome to SuperMap iServer 🗴 🌓 Home	X (Binner DataStore configuration X +	- a ×
← → C ○ locahost:Bi20/datation	Configuration Summary Your IServer DataStore configuration is ready to be completed. GIS Server URI: http://122.0.0.1899 Content: E'.2_Products32_JServer/supermap-iserver. Directory: 10.0.1+w064-datastore/datasto	• ■ ≥ Θ :
 I Welcome to SuperMap iServe: × I Home → C 0 localhost:8020/datastore 	X 🥑 localhost8020(datastore X 🕂	- σ × ≋ ☆ ⊖ :
	Configuration status IServer DataStore RELATIONSHIP the component was successfuly configured for IServer. you can create or import data sets from iserver DataCatalog Services to datastore,	

- 5 Configure iServer as host server of iPortal.
 - 1) Go back to the homepage of iPortal, login with administrator account, then



go to management page.

f Welcome to SuperMap iServ	ee × 👘	🚯 Portal Manager x 🥃 local host5020/datantore x 🕂	- a ×
← → C ③ localhost:	:8190/ipor	ortal/admin-ui/home	or ☆ ⊖ :
iPortal		19	A admin
Overview			
Site Configuration		Pending Items Number of manageable users Monitor the number of GIS servers	
Resources Manageme	14) 	0	
思 Server Management	~	Auditing is currently disabled	
Portal Statistics	1.22	Number of manageable groups Message server status: Unreac exception number: 0	
🗄 logs	~	0 0	
Security	~		
Schendeld Task	•	Number of manageable resource	
		The current portal is not enabled for monitoring	

- 2) Go to Server Management and click Add server.
 - a. Server: Input the url of iServer home page.
 - b. Server Alias: The alias of this iServer.
 - c. Whether to be a host server: Check the checkbox.
 - d. Manager Account: Administrator username of iServer
 - e. Manager Password: Administrator password of iServer

Welcome to SuperMap iServe	×	🚯 iPortal Manager 🛛 🗙 🥩 localhost:8020/datastore	× +					- a ×
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iPortal		Ξ						O R admin
		Overview / Server Management / Add server Add server	Add GIS Server		×			
	~ *		* Server:	http://10.10.3.14-8090/iserver/				
		Allas	Server Polis.	- mjuurine	- 1	Hosted	Monitored	
	-		is cloud native:					
	1		Whether to be a host server		- 8			
			Whether to be monitored:	OPlease configure and enable monitoring				
	~			first, View Help				
	. ••				. 1			
	×.		Manager Account:	admin				
	~~		Manager Password:					
				Cancel	ж			

- Go the Server Management -> Hosting Server -> Hosted Data Configuration, set the Relationship Storage Configuration.
 - a. iServer address: The url of iServer.
 - b. iServer Manager Account: Administrator user name of iServer.
 - c. iServer Manager password: Administrator password of iServer.
 - d. Then click Validate and save.



🚯 Welcome to SuperMap iServer 🗴	🚯 iPortal Manager 🛛 🗙 🥩 localhosts8020/dstastore X 🕇 🛨	- a ×
\leftrightarrow \rightarrow C () localhost:8190/ip	ortal/admin-ul/server-manager/data-storage	아 ☆ \varTheta :
∠ iPortal	II.	
습 Overview 응 Site Configuration ~	Overview / Server Management / Hosting server / Hosted Data Configuration Overview / Server Management / Server Management / Server / Serv	
Resources Manageme	The need for managed data storage configuration. Note: Host Servers need to be able to get hosted data stored.	
Add server	Binary Storage Configuration:	
Hosting server 🔺	Note Brany Storage can store all types of data.	
Hosted Data Configuration	- Storages, mic.	
Hosting server	File Path: //WEB-W67/pontaidata/uploadeddata	
Monitor server V	Validate Save Restore	
Portal Statistics ~		
🗉 Logs 🗸 🗸	Relationship Storage Configuration:	
⊙ Security ~	Abstract: The storage of SMTiles, SVTiles, MSTiles, TPK and USCVS data bases is not supported. If the configuration is valid, the data is preferentially stored in relational storage.	
Scheduled Task *	Note: Excel, CSV, and GeoJSON data are only supported as services when they are configured with relational storage.	
⊅ License ∨	Gerver address: http://10.10.3.14.8090/server/	
	* Gerver Manager Account: admin	
	* Server Manager Password:	
	Validate Saw Delete	

- 6 Now we have finished all required configuration to build the dashboard. This configuration only need to be done once when we first start iServer, iPortal and iServer Datastore.
- 2. Data preparation.
 - (1) Coronavirus data.
 - ① We can get a lot of Coronavirus data from Internet, such as: <u>https://github.com/CSSEGISandData/COVID-19</u>
 - 2 We also need to do some data processing to make the data meet the requirements of our use. For example, modify field names so that they do not contain illegal characters, delete empty row. Here is the data after I processed:

https://drive.google.com/open?id=1YHBAzilJTt5rcVcP_REUTJfvR7kCoGKB



Province State, Country Region, Last Update, Confirmed, Deaths, Recovered Hubei, Mainland China, 2020-02-29T12:13:10, 66337, 2727, 28993 ,South Korea,2020-02-29T18:13:07,3150,16,27 Guangdong, Mainland China, 2020-02-29T15:33:03, 1349, 7, 983 Henan, Mainland China, 2020-02-29T12:43:05, 1272, 21, 1170 Zhejiang, Mainland China, 2020-02-29T09:13:10, 1205, 1, 1016 ,Italy,2020-02-29T18:03:05,1128,29,46 Hunan, Mainland China, 2020-02-29T15:33:03, 1018, 4, 846 Anhui, Mainland China, 2020-02-29T05:03:13, 990, 6, 868 Jiangxi, Mainland China, 2020-02-29T01:23:07, 935, 1, 811 Shandong, Mainland China, 2020-02-29T15:33:03, 756, 6, 421 Diamond Princess cruise ship, Others, 2020-02-29T01:43:02, 705, 6, 10 Jiangsu, Mainland China, 2020-02-29T07:23:11, 631, 0, 523 ,Iran,2020-02-29T14:53:04,593,43,123 Chongqing, Mainland China, 2020-02-29T23:13:06, 576, 6, 438 Sichuan, Mainland China, 2020-02-29T12:03:07, 538, 3, 351 Heilongjiang, Mainland China, 2020-02-29T12:03:07, 480, 13, 301 Beijing, Mainland China, 2020-02-29T03:33:02, 411, 8, 271 Shanghai, Mainland China, 2020-02-29T06:23:03, 337, 3, 287 Hebei, Mainland China, 2020-02-29T15:33:03, 318, 6, 282 Fujian, Mainland China, 2020-02-29T15:33:03, 296, 1, 243 Guangxi, Mainland China, 2020-02-29T12:03:07, 252, 2, 176 Shaanxi, Mainland China, 2020-02-29T09:03:06, 245, 1, 207 , Japan, 2020-02-29T15:53:04, 241, 5, 32 Yunnan, Mainland China, 2020-02-29T05:03:13, 174, 2, 157 Hainan, Mainland China, 2020-02-29T23:43:02, 168, 5, 148 Guizhou, Mainland China, 2020-02-27T00:43:02, 146, 2, 112 Tianjin, Mainland China, 2020-02-29T12:03:07, 136, 3, 109 Shanxi, Mainland China, 2020-02-29T23:13:06, 133, 0, 114 Liaoning, Mainland China, 2020-02-29T15:33:03, 121, 1, 96 ,Singapore,2020-02-29T14:33:03,102,0,72 ,France, 2020-02-29T19:03:04, 100, 2, 12 Hong Kong, Hong Kong, 2020-02-29T23:53:02, 95, 2, 33 Jilin, Mainland China, 2020-02-29T09:13:10, 93, 1, 75 Gansu, Mainland China, 2020-02-28T02:33:02, 91, 2, 82 ,Germany,2020-02-29T14:43:03,79,0,16 Xinjiang, Mainland China, 2020-02-29T12:03:07, 76, 3, 62 Inner Mongolia, Mainland China, 2020-02-29T09:03:06, 75, 0, 49 Ningxia, Mainland China, 2020-02-29T05:53:02, 73, 0, 69 ,Kuwait,2020-02-28T16:23:03,45,0,0 ,Spain,2020-02-29T19:13:08,45,0,2

(2) GIS base data.

The Coronavirus data we found only have Country & Region and Provice & State field, there is no coordinates or any spatial information, so we need to prepare a GIS data who has the same name of Country & Region and Provice & State, to map to Coronavirus data for spatial information. I have prepared one like this:





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Resources		237	0	Israel				
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		254	0	Mainland China	Guizhou			
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		256	0	Mainland China	Hunan			
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3. Data Visualization

DataViz webapp is built in the SuperMap iportal, which provides professional online mapping capabilities, supports online map creation and multi-user collaborative editing. After the data preparation, we can use DataViz to make map online instead of making map on desktop tools.



(1) Go to Resource Center, upload GIS data to iPortal.

\leftrightarrow \rightarrow C (i) localhost:819	I0/iportal/web-ul/resource-center/dat	3						er 🕁 😝 🔕
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(2) Choose SuperMap UDB Data and select the .zip file which include SuperMap file datasource .udb/.udd.

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Data > Upload Data										
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(3) And publish the data as REST Data Service and REST Map Service.

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Data > U	Jpload Data										
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				Previou	s Upload and P	ublish					

(4) Open the url of map service and add it as a map in iPortal.



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Scales:	0.00000001473	xml
Bounds:	Left bottom: (- 180.0 , -90.0) Right top: (180.0 , 83.62)	json fastison
Size:	Width: 256	rjson
Projection:	Height: 256 GCS WGS 1984	html
Target projection:	EPSG:4326 (Original) *	kml
Supported operations:		javascript ol3
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clearCache distance		webgl3d
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highlightImage		
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overview		
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(5) Add this map as basemap of Dataviz in Management page. At the same time we can delete the default Amap from basemap.



(6) Go to DataViz, then we can see the basemap here.





(7) Add layer from search, choose the data service to show all country in a better way.



(8) Add layer from file, we need to choose the csv file then based on REST data service to map spatial information (by coding)



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(9) Configure the layer shows in Range map, and set Field as CONFIRMED, set Range method as you want, such as Natural breaks.



(10) Add layer from file again, then we can choose adding by coordinates.





(11) Then set the type of layer as Rank Symbol, and set theme Field as CONFIRMED, set Range method as Square root segment, set the symbol color as red.



(12) Save the map and set sharing setting as public.







4. Make Dashboard

SuperMap iPortal provides the Map Dashboard webapp, which is an online application for making large visualization screens, which can help users easily build map visualization applications through graphical interface and interactive operation. Here I will choose some of components of Web Dashboard to make the dashboard, you can also make it as the style what you want.

(1) Go to Map Dashboard from iPortal homepage. Then choose blank template.



- (2) Map component
 - ① From the left side, drag Map component to main window, then on the right side click "Sleect Map" then choose our WorldVirusMap



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② Set sub-components of map, choose Identify and set it as visible, then set the layers you want to be clicked.





(3) Text component, drag and drop Text component from left side, then modify the content of it.



(4) Date and time component, drag and drop date and time component from left side, then set the position and size of it.





(5) Line chart

① Upload time series data to iPortal.

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② Drag and drop line chart from left side, then set the X Axis Data, Y Axis Data,





Number of Displayed Data, etc. And we can also drag a text bar as title of different line charts.

(6) Indicator component, drag and drop indicator component from left side then set the value of title, data and style.



(7) Save and publish, Click save button to save your dashboard, and publish it, then users can access this dashboard from web browser and mobile.





Note: This demo is using static data, in order to show capabilities of iPortal Dataviz and Dashboard. SuperMap iServer and iPortal also can integrate real-time data using streaming service.