SmartMapping DemoTheater Notes

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**Let's dive into the example.**

1. Select an attribute ( HH income, education level, home values ) to show how the renderer updates on the map and the slider updates.

Emphasize how the color ramp is selected for me based on the statistics of the data and the basemap being used.

2. If I select another basemap the color ramp will change to show the best looking colors for that particular basemap.

3. Move the slider handles to show how it affects the visualization on the map

4. Change the theme to show updates to the map and slider. Remember, colors are predetermined. (Select MALES. And EXTREMES theme) then (select CENTERED ON)

5. But why is this any different from the map viewer in ArcGIS Online? Who cares? Why build a custom app to do this?

- You know the type of data you're dealing with, but not the data itself

- You're familiar with the data, but it frequently changes.

- You want to simplify to only fit your needs to create a simpler user experience.

- Perhaps you want to add other functions...print, export renderer, etc.

6. First of all, the AGO map viewer allows you to select ANY field (except OBJECTID). So with a custom app, you can limit the selection to only the fields you really care about.

SELECT POP THAT EARNED less than $35K

7. The AGO map viewer also provides several options for rendering the data, unique values, color, size, rations, combinations of color and size. You may only care about one of those things. In this app, I only really care about color, so I don’t want to have to select it from various options.

8. Normalization is built in to this app. The user doesn’t have to select a normalization field separately from a list of all fields. You can write a simple function that selects the proper normalization field based on the selected field.

9. You can simplify filtering a subset of features. If you want a subset in the map viewer, the user needs to set a definition expression by creating SQL statements. In a custom app you can provide them with options in a dropdown menu to filter by numeric values, political regions (like cities), etc.

SELECT SEATTLE. Then select where most adults have a college degree.

10. In custom apps, you can filter by geometry. In this case, I chose to use the map extent, although you can use other options like draw tools or other geometries you may have available for filtering. This allows you to view more demographic detail in a localized area.

FILTER BY EXTENT OF DARK AREA

Let’s get to some code…

Back to Power Point