Weekly Challenge

Solve the challenge, share your solution and summit the ranks of our Community!

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IDEAS WANTED

We're actively looking for ideas on how to improve Weekly Challenges and would love to hear what you think!

SUBMIT FEEDBACK

Weekly Challenge

Challenge #77: Extending Spatial Lines

JoeM
Alteryx Alumni (Retired)

Happy Monday! Last week's solution can be found HERE!

In this week's challenge, a communications company is doing an analysis of fiber runs in the network. The current wiring needs to be extended a certain distance in each direction in a straight line. Take the provided lines and extend them 5 miles on each end. For more intermediate users, create a macro so the user can input the desired extension length for each run.

The output should include:
1. Name of the fiber
2. The original spatial line object
3. The new spatial line object
4. New length of line

challenge_77_start_file.yxmd

challenge_77_solution.yxzp

Interface | Intermediate | Macros | Preparation | Spatial

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gnans19
11 - Bolide

Here's my solution. Attached both workflow and macro

Record #	Label	NewLine	LengthMi	OrigLine
1	FiberA	*Line - View Browse Tool Map Tab*	19.624892	*Line - View Browse Tool Map Tab*
2	FiberB	*Line - View Browse Tool Map Tab*	19.955815	*Line - View Browse Tool Map Tab*
3	FiberC	*Line - View Browse Tool Map Tab*	21.305045	*Line - View Browse Tool Map Tab*

▷ Spoiler

challenge_77_Gnans.yxmd

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alex
11 - Bolide

Spoiler

Good opportunity to practice with spatial tools that I rarely use.

challenge_77_AC.yxmd

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NicoleJohnson
15 - Aurora

My solution! I started by going down a trigonometry black hole... that didn't work. (Yet.) So I ended up borrowing a few ideas from @gnans19 and @alex, and then focused on streamlining it once I got it working.

I'm convinced there's a trig way to do it though. Stay tuned. :)

Spoiler

challenge_77_NicoleJohnson.yxwz

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Joe_Mako
12 - Quasar

Here is a route to get slightly more accurate coordinates, I am sure the expressions could be improved to be even more accurate.

Spoiler

c77 Joe_Mako Workflow.yxmd

c77 Joe_Mako Macro.yxmc

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andre347
10 - Fireball

Similar approach as one of the workflows above. Good challenge to play with the Spatial tools!

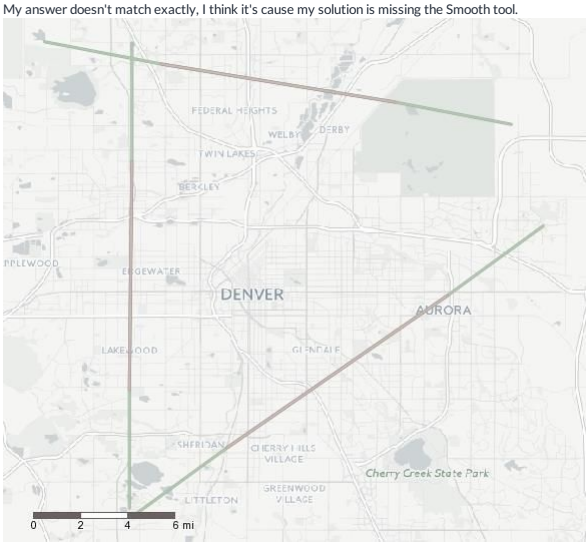
challenge_77_andre_de_vries_app.yxwz

challenge_77_andre_de_vries.yxmd

Share 0 LIKES Reply

Laurap1228
11 - Bolide

My answer doesn't match exactly, I think it's cause my solution is missing the Smooth tool.



challenge_77_LP.yxzp

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ACE estherb47
15 - Aurora

I started down a trig path too, and will get there (just struggling to remember trig!!).

When that wasn't working, found the same solution as many others, with circles and distances. I suppose that's more of a geometric/geospatial approach.

Still working on doing this with formulas.... to be continued.....

challenge_77_EHB_solution.yxmc

Share 0 LIKES Reply

LordNeilLord
15 - Aurora

Like others I decided to try and figure this out using Trig & Geometery and then I realised than I have no idea what I'm doing, so I stuck to what I know..

▷ Spoiler

challenge_77_NL.yxwz

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ACE patrick_digan
17 - Castor

I had a hard time with this one.

challenge_77_start_file.yxwz

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