We've recently made an accessibility improvement to the community and therefore posts without any content are no longer allowed. Please use the spoiler feature or add a short message in the message body in order to submit your weekly challenge.

2022-05-26 Updates: Email: If you're not seeing emails be delivered from the Community, please check your spam and mark the Community emails as not junk. Thank you for your patience.

SIGN IN

Free Trial

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 #70: Trade Area Drivetime Radii

MattD
Alteryx Community Team

The solution to last week's challenge is HERE!

Today we're challenged to find the total area (square miles) that we can move our company headquarters to such that it is an equidistant commute from 3 satellite offices. In order to do so, find the area that is shared by a 30 minute drive time radius starting from each of the satellite offices!

Be warned! You may arrive on different areas depending on the spatial data release that is used, in addition to the drivetime methodology selected. For the sake of comparison, use the above map as an estimation of the area if you are not using the Q2: 2016 TomTom US Peak Most Recent Vintage dataset. If you think you need a hint, expand the spoiler below!

▷ Spoiler

challenge_70_start_file.yxmd

challenge_70_solution.yxmd

Basic | Spatial | Spatial Analysis | Transform

Share | 5 LIKES | Reply

MarqueeCrew
19 - Altair

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I used Tom Tom Q4 Peak. Hopefully, I didn't miss anything here.

Spoiler

If I did, someone will point it out to me (I'm sure).

Cheers,
Mark

Alteryx ACE & Top Community Contributor

Chaos reigns within. Repent, reflect and restart. Order shall return.
Please Subscribe to my youTube channel.

challenge_70_MarqueeCrew.yxmd

Share 1 LIKE Reply

NicoleJohnson
15 - Aurora

My (pseudo) solution. I don't have access to drivetime data, so I wasn't able to answer the question *exactly* as asked... but I can see comparing to @MarqueeCrew 's solution that I have the same process, so barring changing from "miles" to "minutes" if I'd had the drivetime dataset, I believe it's the same. So count this as my "I drew this with a stick in the sand because I didn't have the right tools" solution? :)

Spoiler

challenge_70_NicoleJohnson.yxmd

Share 2 LIKES Reply

alex
11 - Bolide

I don't have the spatial package either so I winged it to come up with 2 different areas to consider for the HQ. I used a both spatial tools and spatial formulas to come up with the answers.

Spoiler

challenge_70_AC.yxmd

Share 0 LIKES Reply

Natasha
9 - Comet

It is a bit frustrating that the correct solution is available only to the owners of a spatial package. But challenge is a challenge, and I made some driving time assumptions based on the speed limit. My assumptions are a bit bolder than those of NicoleJohnson, but the solution itself is similar.

challenge_70_NK.yxmd

Share 0 LIKES Reply

SeanAdams
17 - Castor

Hey @MattD - are we as a community misunderstanding something (a few people have mentioned the dependence on spatial package), or is this indeed a solution that can only be fully completed if you have the additional license for this data?

For example - I'm wondering if you had something in mind related to punching out to a different API that can do this. IF this is the case - can you give a hint?

:) have a good day Matt
Sean

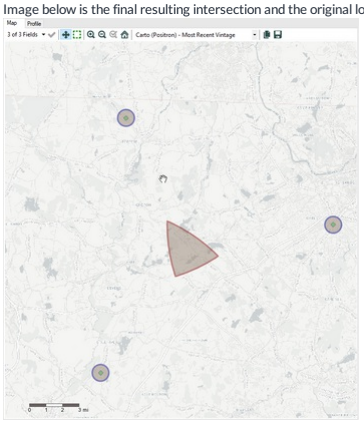
Share 3 LIKES Reply

SeanAdams

17 - Castor

Used a similar "stick in the sand" approach as @NicoleJohnson and @Natasha. As Nicole says, it's the same solution as Mark @MarqueeCrew, but using a mile-radius rather than a drive-time radius. Still holding out that @MattD has some sneaky idea up his sleeve for those of us without spatial data packages...

Image below is the final resulting intersection and the original locations of the satellite offices.



Spoiler

challenge_70_SeanSolution.yxmd

Share 2 LIKES Reply

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estherb47
15 - Aurora

I have an outdated spatial release (getting the update soon), so my numbers are slightly off. This is with 2015 Q3 data.

Spoiler

challenge_70_EHB_solution.yxmd

Share 1 LIKE Reply

MattD
Alteryx Community Team

Hey Everyone!

For those of you who do not have the spatial data package, I went ahead and created a macro that uses Google Maps to calculate distance and drivetime between two points or addresses! While you'll still end up with a different total area as compared to the Q2: 2016 TomTom US Peak Most Recent Vintage dataset, this will make it so that you can answer these types of questions in the future without full access to the spatial data package!

Share 11 LIKES Reply

NicoleJohnson
15 - Aurora

Thank you @MattD!!! You're the best! :)

Share 2 LIKES Reply

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