

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.



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## 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](#)

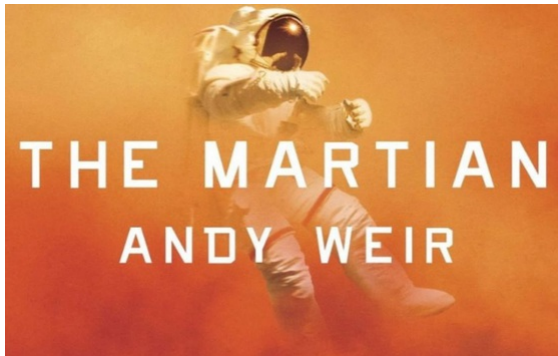
[Weekly Challenge](#)

## Challenge #61: Save the Astronaut



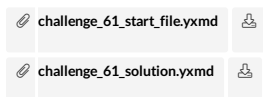
JoeM  
Alteryx Alumni (Retired)

The answer to last week's challenge can be found [HERE](#).



In the novel, "The Martian", astronaut Mark Watney is stranded on Mars. After getting a rover that transmits video back to earth, Watney communicates with mission control by setting up cards on sticks surrounding the rover - knowing the rover can rotate the camera 360 degrees. His method would be to show the rover camera a question, then record the letters that the mission control then points the rover camera at to assemble a response. However, knowing that there are 26 letters in the English alphabet, he realizes that the letters surrounding the rover would only be separated by 13 degrees - making it more difficult to understand what the rover is pointing at. As a solution, he then decides to set up the surrounding cards using the hexadecimal characters 0-9, A-F (16 cards + 1 card serving as the question). If the question card is sitting at 0 degrees and the 16 other letters (0-9, A-F) are ordered around the rover, the camera can only pan at 4 degrees per second, how long will it take for the rover to return the following message: "We are sending another mission. It will take 42 months."

Note: Assume the camera starts on the question card and ends on the last letter.



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ACE MarqueeCrew  
19 - Altair

@JoeM,

With the cards setup at equal distances around the rover, I have a question about the capability of the rover to pan left and right. If the rover only pans right, then the distance from 10 degrees to 0 degrees is 350. If it can go left, the distance is 10 degrees. What assumption can you share or should we figure that out for ourselves?

Cheers,  
Mark

Alteryx ACE & Top Community Contributor

Chaos reigns within. Repent, reflect and restart. Order shall return.  
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If you wanna see the scene from the movie: <https://www.youtube.com/watch?v=ffB0Je-xjKg>

@JoeM I cannot find the exact same result, somehow my camera is 9 seconds slower than yours :).

Assumptions:

▷ Spoiler

Solution:

▷ Spoiler

challenge\_61\_MK.yxmd

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**ACE MarqueeCrew**  
19 - Altair  
[@Max06270](#).

I watched the clip (twice) and noticed that they didn't include punctuation in the text. Did you?

I don't want to look inside of the spoiler tags.

Alteryx ACE & Top Community Contributor

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**Max06270**  
7 - Meteor

I used exactly "We are sending another mission. It will take 42 months," which is the string in the response text input from the workflow, including punctuation.

Since I am not getting exactly the same number of seconds, in my original post Spoiler1 is the assumptions I made and Spoiler2 is the image of the workflow.

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**ACE MarqueeCrew**  
19 - Altair

How literal of you.

I would of course want to use all caps and remove punctuation so that i could reduce the time that it takes to message.

Alteryx ACE & Top Community Contributor

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**alex**  
11 - Bolide

Assumptions in my solution are as follows inside spoiler tag

▷ Spoiler

I'm still 16 seconds off

▷ Spoiler

Martian-AC.yxmd

**MarqueeCrew**  
19 - Altair

[@JoeM](#)

I have posted my solution.

After finishing mine, I compared our results and we're matching. I got there in a more convoluted way than you did.

▷ Spoiler

So after writing code and using the API to NASA for Code calculations.... (just kidding)

We'll played [@Max06270](#) & [@alex](#)

Alteryx ACE & Top Community Contributor

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challenge\_61\_MarqueeCrew.yxmd

**Natasha**  
9 - Comet

Here is my solution. I am pretty close, but also can't get the exact number of seconds.

At first I was way off, but then used [@Max06270](#) assumption that the camera stops one second at each card, which makes sense, and my camera become 9 sec slower.

If I read the task carefully, the last sentence says " Note: **Assume the camera starts on the question card and ends on the last letter.**"  
Removing the last dot made my camera 25 sec faster.

▷ Spoiler

challenge\_61\_NK.yxmd

**JoeM**  
Alteryx Alumni (Retired)

This week's solution has been posted. It's great to see all the different assumptions being called out - even some I had failed to take into account (re: stopping camera on each letter being a big one). Hope you had fun trying to think your way through that one!

