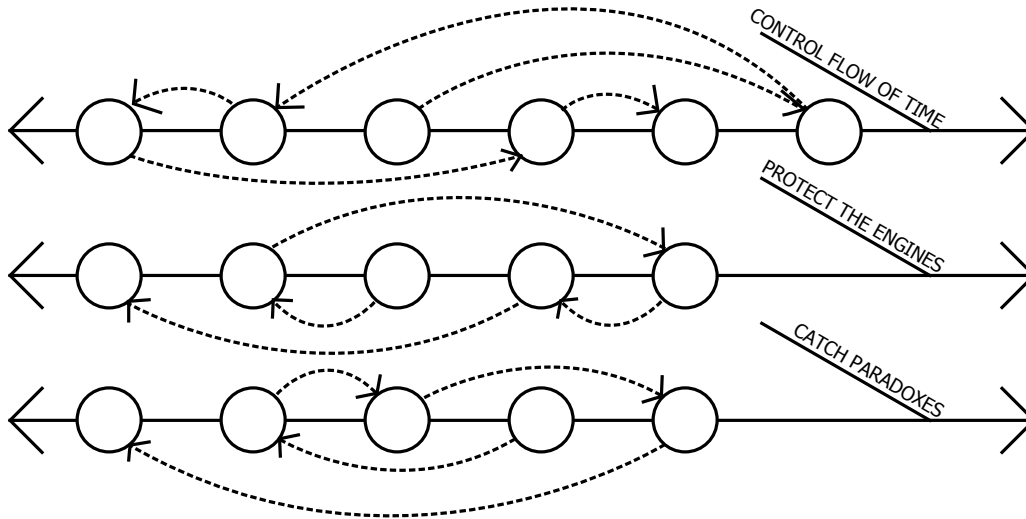


# Time For The Holidays

by Dustin Foley

Thank you for your invaluable assistance in fixing my time machine as we prepare to venture into next year! You've successfully provided me with the location at which I could find the missing piece of my time machine, which has allowed me to deliver these three puzzles to you. Now please be sure to solve them and deduce that location yourself, so as to prevent a paradox.

Apparently, when you solved each puzzle, you obtained a short word as a final answer. You then combined these words, in some order, with the three timelines below that illustrate the paths that the puzzles took in reaching you.

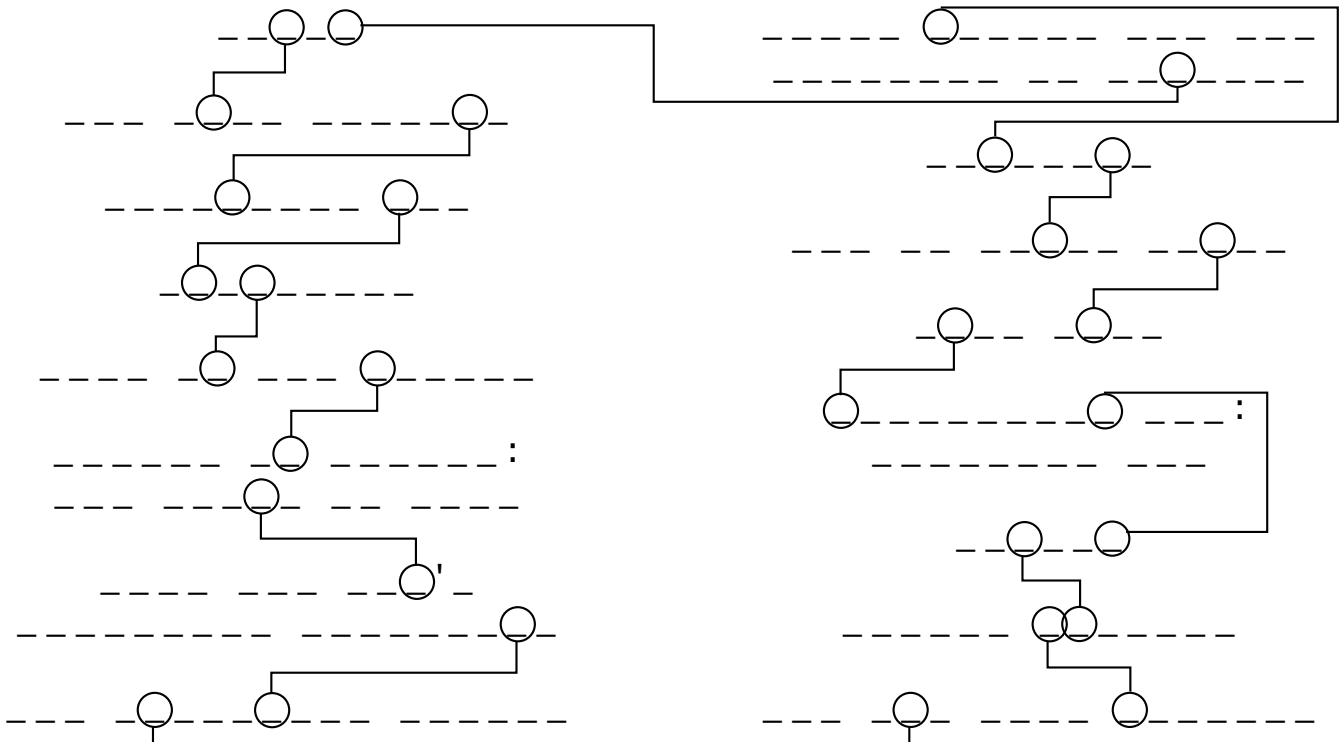


Where can I find the missing piece of my time machine?

---

## Circuit Repair

This circuit can be repaired by studying the documentary footage of other time travelers and their methods of time travel, provided in random order on the back page. (Note: The final answer is not a type of metal.)

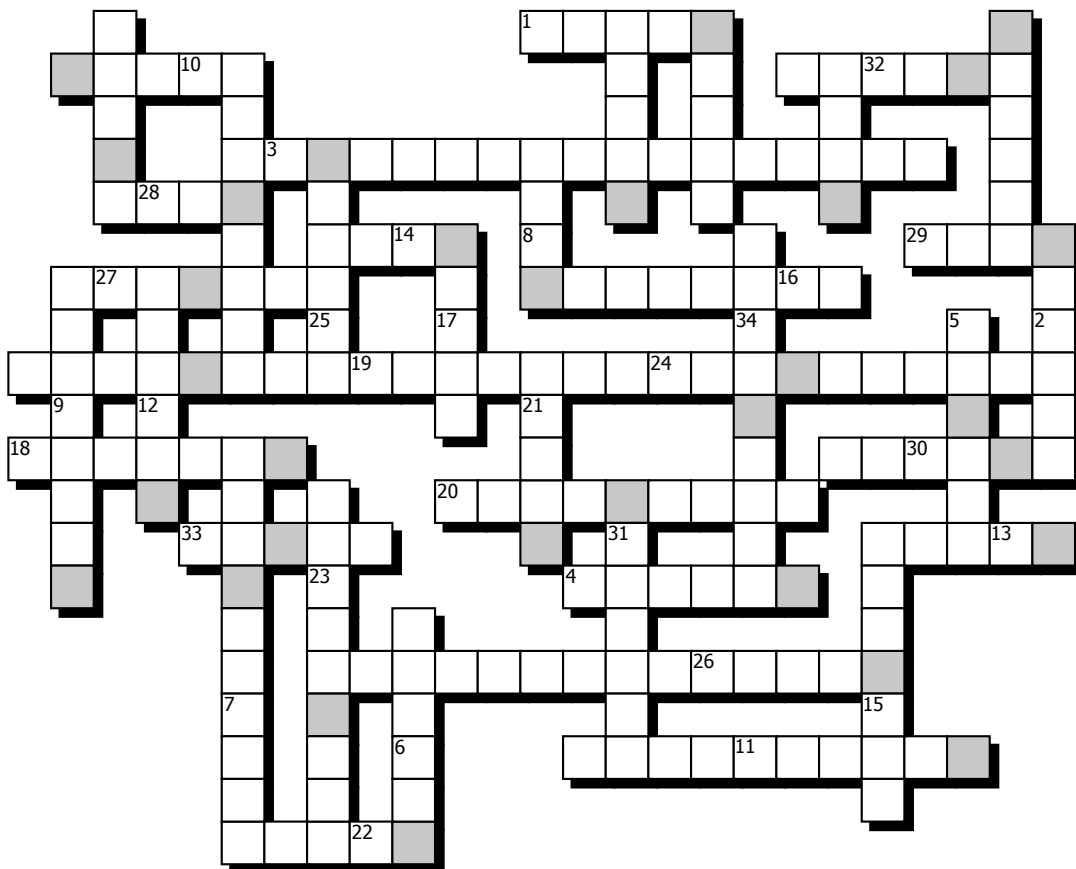


# Grid Matrix Alignment

Clues are ordered alphabetically by answer, ignoring the contents of the shaded squares. Full answer lengths are also provided.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34		

- Broadcasting opportunity (7)
- First words from Star Wars (1 4 4 3)
- Gauge that displays a plane's height (9)
- Nine saver (1 6 2 4)
- They're punched in and punched out (4 5)
- About 2/5 of an inch (10)
- 1998 hit by Semisonic (7 4)
- Apple's videotelephony product (8)
- "\_\_\_ at Ridgmont High" (4 5)
- 70's sitcom that was a spinoff of Maude (4 5)
- It's based around London's Royal Observatory (9 4 4)
- Super Bowl event (8 4)
- Busies oneself with nothing in particular (5 4)
- Like classic movies or sayings (8)
- "Television for Women" channel (8)
- New voice on a phone-in show, maybe (4 4 8 5 4 6)
- Doctor Who term for those of the Doctor's species (4 5)
- Sea-related type of law or province (8)
- Entertainment with audio, video, and interactivity, e.g. (10)
- Regular part of a toddler's schedule (7)
- "The Curious Incident of the Dog in the \_\_\_" (5-4)
- "Why not do it now?" (2 4 4 3 7)
- Geezer (8)
- Former, like a ruler or champion (7)
- Employment balanced alongside classwork, maybe (4-4 4)
- Warless period (9)
- Clocks and watches (10)
- Early 1900's music genre of Scott Joplin (7)
- "\_\_\_ with Bill Maher" (4 4)
- Bugs discovered when executing a program (7 6)
- Maudlin (11)
- Home of Dexter and Weeds (8)
- Big Apple landmark (5 6)
- It may be in the corner of a photo or video (9)
- Double-cross (3-4)
- Like deaths not due to natural causes (8)
- Rocky Horror dance (4 4)
- It ends with the vernal equinox (10)
- Most of Brazil and Greenland share one (4 4)



# Research Documentation

Dr. Mortimer’s time machine has an interesting quirk: Every time he uses it to travel through time, he arrives wearing a different type of hat. Fortunately, this helps differentiate himself from other versions of himself that he meets, so he wears the hat for the duration of his trip until he departs again, at which point it disappears. Based on the clues below, determine his five trips’ arrival and departure times, and which of the five hats he wore during his visits (coonskin cap, cowboy hat, fedora, sombrero, and top hat).

The machine, once turned on, could only be “used” (allowing a doctor to arrive or depart) every hour on the hour, but was not used at 5pm and 9pm. The machine could not accommodate two doctors at the same time, whether arriving or departing.

The moment that the original doctor (#0) turned on the machine at noon, a fedora-wearing doctor arrived. The original doctor eagerly departed as soon as he could, at 1pm, for a point more than an hour in the future.

The longest span of time between arrivals was 2 hours. Also, each hat existed for at least 2 hours.

The only hat that the doctor saw on his fourth visit, besides his own, was the sombrero, but he only saw it for an hour.

The final doctor’s “departure” was when he turned off the machine at midnight, which counted as a departure for all intents and purposes. His hat even disappeared, which disappointed him.

The only time that 4 hats coexisted was from 7pm to 8pm.

The doctor who wore the top hat appeared after the previous doctor and following doctor had both appeared; he also departed before those two departed.

At one point, two doctors (neither one wearing a coonskin cap) wanted to depart at the same time, so they played rock-paper-scissors for it. Naturally, the one from further in the future remembered how he had lost previously, so this time he won and left; the other departed an hour later.

	ARRIVAL	DEPARTURE	DURATION (in hours)	HAT WORN	
ORIGINAL	N/A	1pm	N/A	N/A	
FIRST TRIP					
SECOND TRIP					
THIRD TRIP					
FOURTH TRIP					
FIFTH TRIP		Midnight			

