

## T-Rex – Full Solution Guide

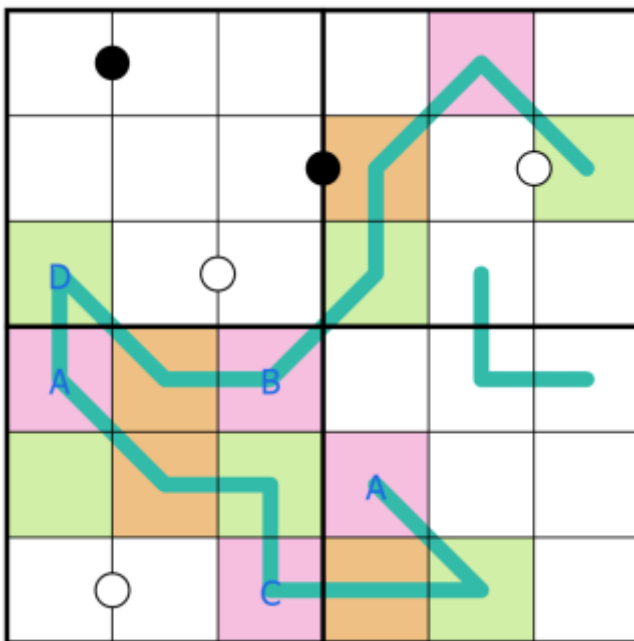
This is a full solution guide to my puzzle *T-Rex*, and so spoilers are ahead.

### Rules

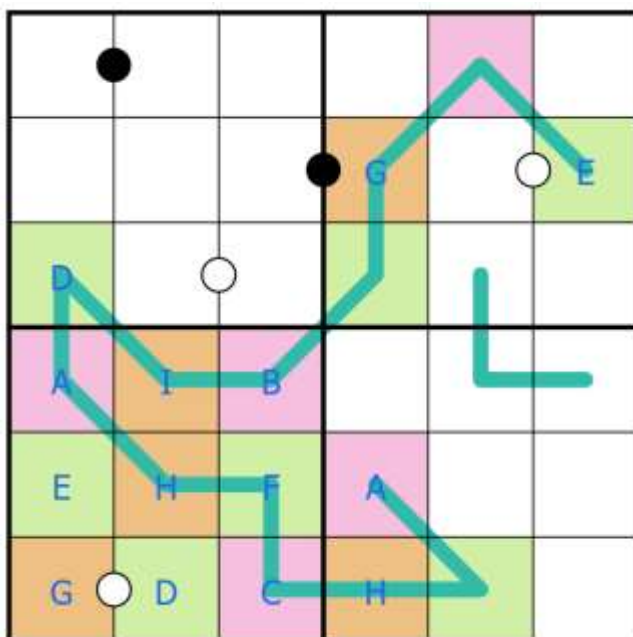
- **Quattroquadri**: Place the digits 1 to 9 such that digits do not repeat in any row, column, or 3x3 box
- **Anti-Queen**: No digit may repeat a Queen's move away (in chess). I.e. no digit may repeat on any diagonal in this puzzle
- **Modular Line**: A run of three cells on a teal modular line must have different remainders when divided by 3, i.e. one digit from (1, 4, 7), one from (2, 5, 8), and one from (3, 6, 9)
- **Kropki**: A white dot separates consecutive digits. A black dot separates digits where one is double the other

### Solve Path

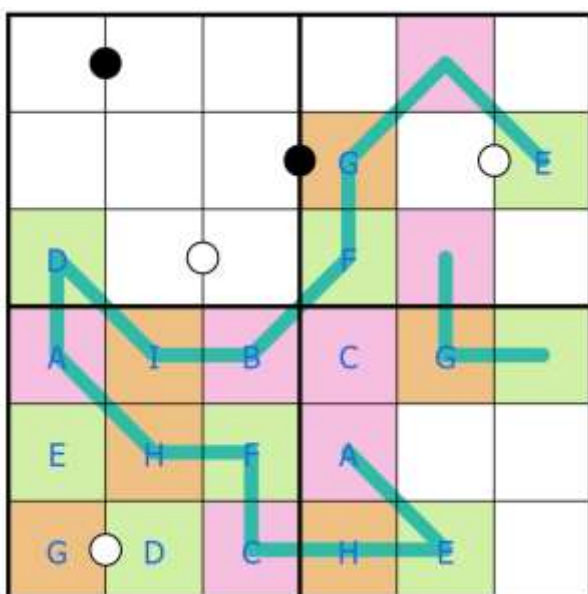
- Shade the long line in three colours
- All three pinks are in box 3, so arbitrarily assign these letters ABC
- R5C4 is pink and sees BC so is A



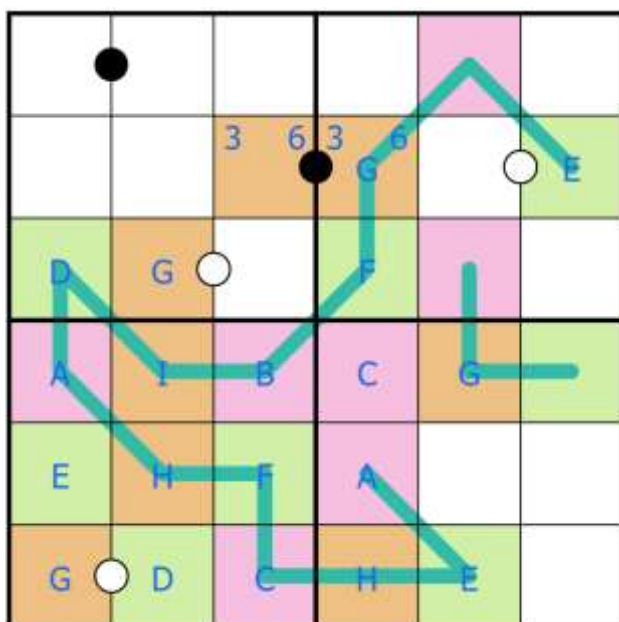
- The white dot in box 3 contains cells with two different modularities, so R5C1 is green
- D is placed in box 3, and arbitrarily assign the other greens letters EF
- R2C6 makes a triple of greens on the diagonal
- Remaining oranges in box 3 can be assigned letters GHI
- R6C4 sees G and I, so is H



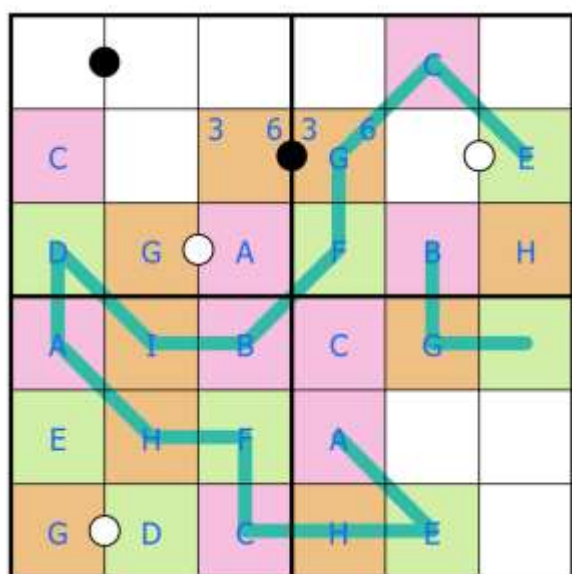
- R4C4 sees DEF on the diagonal, and GHI, so this is pink and is C
- Makes R3C5 pink
- R4C6 sees GHI so this is green



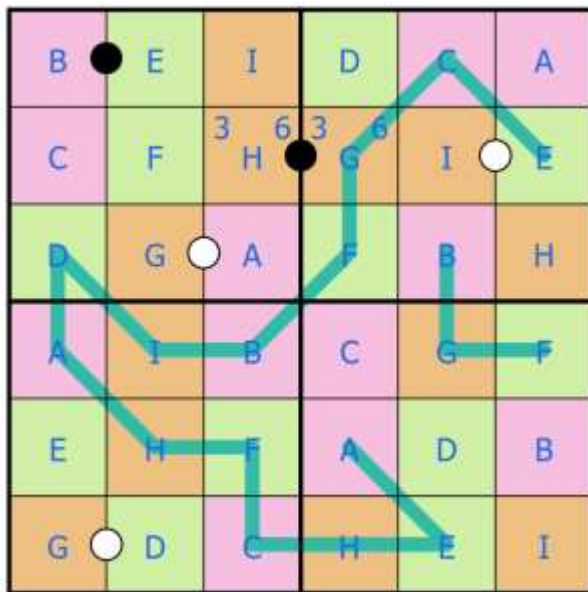
- R2C3 sees ABC and DEF, so is orange
- This means orange is the 369 set, but I won't mark digits as we don't know how colours and digits map to each other



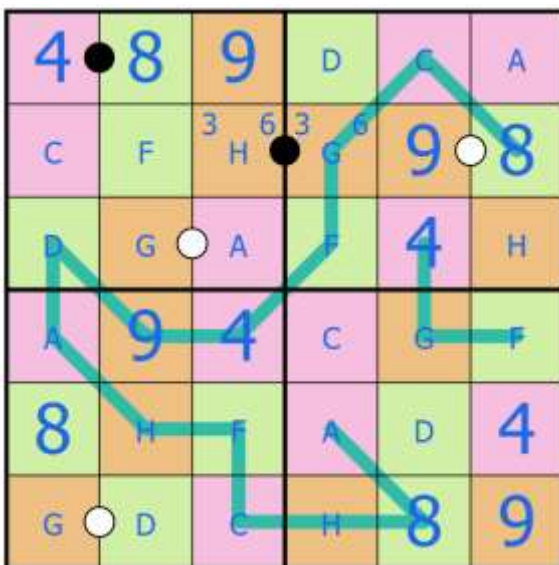
- R3C3 isn't orange by white dot, and it sees DEF, so this is pink and is A
- Makes R3C5 B and R1C5 C
- Places C in box 1



- Can't place any more oranges on black dots in box 1, so R1C3 and R2C3 are HI pair
- These see R1C4, along with ABC, so this is green and is D
- Black dot in box 1 contains two different modularities, so R2C2 is green and is F
- Places F in box 4
- Last big deduction that should allow the whole grid to be coloured and lettered



- GH are 36 due to the black dot, so I is 9
- By white dot E is 8
- By black dot B is 4



- A is from 17, but is connected by white dot to a 36, hence A is 7, G is 6
- Makes H 3, D 5, C 1, F 2

|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 4 | 8 | 9 | 5 | 1 | 7 |
| 1 | 2 | 3 | 6 | 9 | 8 |
| 5 | 6 | 7 | 2 | 4 | 3 |
| 7 | 9 | 4 | 1 | 6 | 2 |
| 8 | 3 | 2 | 7 | 5 | 4 |
| 6 | 5 | 1 | 3 | 8 | 9 |