Key questions

- Have you heard of an automaton?
- What kinds of things can "state" refer to?
- What does "finite" mean?
Trainsylvania

Find your way to Harbour Station!

You are currently at:

Station 1: Airport

Do you want to travel on:

Train A or Train B

Start over
Sequences

Did we get it right?

Trainsylvania Planner

If you take the trains:

Enter sequence of A's and B's here

You will end up at Station 1: Airport
Map of Trainsylvania

Station 1: Airport
Station 2: West
Station 3: South
Station 4: Central
Station 5: Harbour
Station 6: Factory
Station 7: Midway
Station 8: North
Station 9: East

Start
Question 1

BBB will take us to East Station
Question 2

BABA will take us to back to Airport Station
Will AAB get us to Harbour Station? No
Will ABBAB get us to Harbour Station? Yes
Question 5

Will AAABBAB get us to Harbour Station? Yes
Will BBBBBB get us to Harbour Station? No
What is it all about?

Email or phone

myemail.com

⚠️ Couldn’t find your account
Is this English?

1. I'm gonna be late
2. ADM;lasdf oodf9 bosfa
3. ancay youay eakspay igpay atinlay?
Email address to process

me@a.com
Email address to process

email@gmail.com
Email address to process

mygooglegmail
Finite State Automata

Additional challenges

- Can you find another sequence, perhaps a longer one?
- Suppose you wanted to take a really long route... can you find a sequence of 12 hops that would get you there? 20 hops?
Finite State Automata
Treasure Island version
Supporting Resources

- **Classic CS Unplugged - Treasure Hunt activity**
  https://classic.csunplugged.org/activities/finite-state-automata/

- **Classic CS Unplugged - Video on FSA**
  https://classic.csunplugged.org/videos/#finite-state-automata

- **Supporting high school learning - Computer Science Field Guide**

- **Video supporting high school learning - Regular Languages (especially up to 4:13)**
  https://www.youtube.com/watch?v=PK3wL7DXuuw