

# XR/VR Session

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# XR / VR Story Board

- ▶ With Computer Science concepts can be very abstract.
- ▶ Visualizing new abstractions is difficult.
- ▶ My proposal is to use VR to facilitate visualizing the abstraction of the Linked-List in the introduction to programming course with C++.

# Linked-List Example

- ▶ The example being visualized will be a map route with a sequence of events.
- ▶ The route will be a trip from Fresno to London and Back.

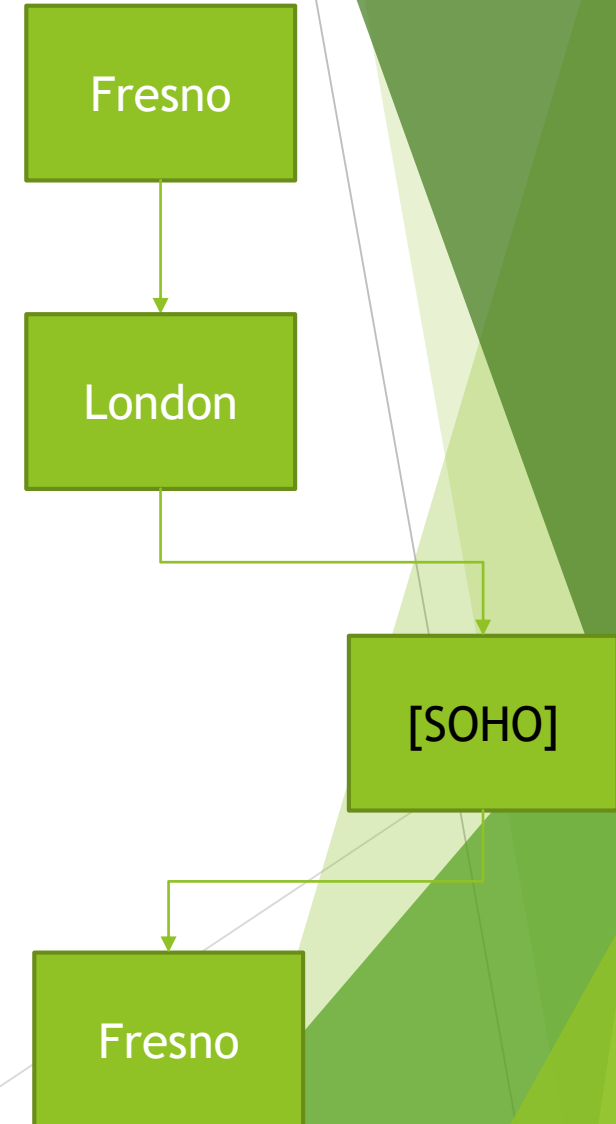
# Linked-List

- ▶ First the basic route will be created:
  - ▶ Fresno -> London -> Fresno
- ▶ Then a new event will be added between London and Fresno
  - ▶ The new list will be:
    - ▶ Fresno -> London -> [SOHO] -> Fresno



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# Linked-List in VR

- ▶ Students will be able to explore the list as it is created, along with the code executing.
- ▶ Allowing students to explore the intermediate state of Linked-List, seeing all the different values and connections, greatly facilitates the development of the abstraction.