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Rich Web Lab Three

Lecture Review Questions

Question One

A stream is an abstraction for some data which may or may not be present now or may or may not arrive in the future. The relationship between streams and the observer pattern is that streams implement the observer pattern where data is realised using the subscribe operation. Streams are useful for modelling synchronous data sources. In rich web development you might use streams as an abstraction of asynchronous events.

Question Two

You would use the RxJS library to create subscriptions and would be able to call network responses whenever needed in the program by using observables.

The benefits of using streams for networking would be that streams are a specialised data structure made for efficiently mapping out system calls while still being able to provide an asynchronous program iteration. Observables can model events, async server requests and animations with very little code. Whereas when using promises you don't need to do the whole set up and have the whole rxjs library linked in your files making it a lot to have for just one small program.