**Guide 1 Study Guide Questions**

1. As we May Think
   1. To what war is Bush referring?

**Scientists War, the war that everything we need specified degrees for, is being automated and computerized.**

* 1. With what problem is Bush concerned and how does he propose to solve it?

**Problem: Specialization is dying in the face of technology advancements.**

**Solution: We specialize ourselves, example was with the mathemtician. A mathemtiican isnt someone who can readly “manipulate figures; often he cannot. He is not even a man who can readily perform the transformations of equations by the use of calculus. He is primarily an individual who is skilled in the use of symbolic logic on a high plane, and especially he is a man of intuitive judgment in the choice of the manipulative processes he employs”**

* 1. Is there a modern-day equivalent to the memex?

**Comptuers? You can store 5,000 pages in one day in 10 mb (500 pages = 1 mb). So if you have a 1 tb hard drive, you could store 100,000 days worth of content (273 days) in a 1TB hard drive. So If you made a 100 TB hard drive, then you could theoretically store your life in a hard drive.**

1. Web Application Architecture from 10,000 Feet
   1. Why would one want to build a Single-Page Application (SPA)?

**Most of the data (code JS,HTML,CSS) is handled by the client, which means there isn’t latency and page hangups. Which means clients would be happier.**

* 1. What makes SPAs different from traditional applications?

**SPA’s have it so that the client has all the code, while the database is on the server side. So it makes the client feel like a native app, much like apps on your phone.**

* 1. What is the “dirty secret” of SPA development?

**HTML,CSS, and JavaScript were not designed for creating GUIs.**

**Frameworks- Use them as ways to build on your code, without having to deal with many problems.**

**Libraries- Use as a building block to get ceratin parts of your application to work as desired.**

1. Comparison of web browser engines
   1. What does a browser engine do?

**Browser Engine- turns the object that contains the HTML CSS and JS code, into a visually displayed resouce on the users device.**

* 1. What’s the most popular browser?

**CHROME**

* 1. What engine does Google Chrome use and how was it built? (See the Wikipedia article for details.)

**Webkit Broswer engine.**

**It was built by u seing over 25 different code libraries from Google and Firefox. It was orginally made for small programs, but supports its own applications better.**