

DWA_12 Knowledge Check

To complete this Knowledge Check, ensure you have worked through all the lessons in **Module 12: Declarative Abstractions**.

To prepare for your session with your coach, please answer the following questions. Then download this document as a PDF and include it in the repository with your code.

1. What are the benefits of direct DOM mutations over replacing HTML?

Performance boost

It decreases the time taken to refresh elements or items being displayed. This is because the HTML is relatively slow in its page construction therefore the page will load very slowly.

2. What low-level noise do JavaScript frameworks abstract away?

Imperative updating of the DOM, keeping track of what elements need to change.

They Abstract the direct manipulation of the DOM and manage the state and data that corresponds either to our program or the html.

3. What essence do JavaScript frameworks elevate?

They elevate our road to achieve the outcome we task the computer to do. In short they abstract the building blocks of our DOM and state management so that we can focus on achieving the what of our code.

4. Very broadly speaking, how do most JS frameworks achieve abstraction?

They hide away the imperative DOM mutations.

They do so by often keeping a replica of the DOM (a virtual DOM) or by storing sections of our DOM or Data in a store which we then give general commands to letting the Framework handle the specific details of how to achieve our desired changes.

5. What is the most important part of learning a JS framework?

Schalk believes that the most important part is not to learn how to use the framework but instead to learn what the framework is doing for us when we input commands. Ultimately learning how to interact with the framework will allow you to achieve success most of the time however if there is a critical failure and you don't know what the framework is doing for you, you may have trouble debugging and speaking about your challenges to others. Therefore if you want to code using frameworks with a higher success rate it is important to understand how the framework does what it does and how that affects how you use and interact with the framework.