

# 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.

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

DOM mutations offer efficient performance and compatibility. Where one needs granular control and optimal performance in manipulating the DOM, this is certainly a suitable choice. This level of control allows you to make precise changes to the UI as needed.

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

Querying the DOM falls under boilerplate coding. You are grabbing an element without doing much. E.g. for-loop, event listeners, data manipulation and browser compatibility.

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3. What essence do JavaScript frameworks elevate?

Put emphasis on encapsulation, modularization, polymorphism, etc. It simplifies your code, allows developers to write code more quickly and efficiently, and is able to save time. Consistency is promoted, which enhances collaboration amongst developers.

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

One of the methods is by using state management, which refers to the management and control of application data, specifically the state of the application. It involves storing, updating and synchronizing data that represents the current state of the user interface (UI) and application logic. It enables seamless user interactions.

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

**Reading the documentation, tutorials and workflow**

This hands-on practice will deepen your understanding of the framework, help you encounter real-world challenges, and build confidence in your skills.