

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

- Replacing HTML means you need to reload the page, whereas changing the DOM updates the document in the browser in real time.

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

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

- They do this through virtual DOMs.

3. What essence do JavaScript frameworks elevate?

Declarative and maintainable application development, they do that through:

- Frameworks move away from the imperative style of constantly manipulating the DOM
- Frameworks provide structure and organization through features like centralized state management.

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

They hide away the imperative DOM mutations

- Diffing Algorithm: Once the changes are identified between the virtual DOMs, they employ a diffing algorithm to determine the most efficient way to update the real DOM
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5. What is the most important part of learning a JS framework?

Learning what it tries to abstract and how it implements an abstraction so that if things do go wrong, you know where to look and how to fix it.