

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:

Updating only the necessary parts of the DOM reduces rendering and layout recalculations.

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

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

JavaScript frameworks abstract away low-level noise such as:

- Imperative updating of the DOM: Frameworks handle declarative updates based on state changes.
- Keeping track of what elements need to change: Frameworks manage efficient re-rendering and updates without manual tracking.

3. What essence do JavaScript frameworks elevate?

They emphasize describing *what* should be displayed based on state and data, rather than focusing on *how* to update the DOM imperatively.

4. Very broadly speaking, how do most JS frameworks achieve abstraction?
They hide away the imperative DOM mutations

They provide higher-level APIs and patterns that hide away low-level details, such as imperative DOM mutations and state management.

5. What is the most important part of learning a JS framework?
Grasping the framework's architecture, such as its component-based structure, state management mechanisms, and data flow patterns.