

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?

- Efficiency – Directly manipulating the DOM allows for fine-grained control & targeted updates, avoiding the need to recreate & replace entire sections of HTML. This can lead to improved performance & reduce processing time.
 - Granularity – More control over individual elements & can apply changes precisely where needed. This enables optimizations & a more efficient rendering process.
 - State Preservation – State can be preserved without the need for additional bookkeeping or data transfers.
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2. What low-level noise do JavaScript frameworks abstract away?

- Event handling
 - Cross-browser Compatibility
 - AJAX & HTTP Requests
 - DOM Manipulation
 - State Management
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3. What essence do JavaScript frameworks elevate?

- Modularity
- Developer Productivity
- Interactivity
- Scalability
- Cross-platform Development

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

- By providing higher level API's, conventions & patterns that encapsulate complex functionality & hide low level implementation details.

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

- Understanding core concepts
- Hands on Practice
- Documentation & Official Resources
- Keeping up with Updates