# 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?

Performance boost

- **You are able to make only necessary changes instead of the entire HTML being replaced.**
- **It's logic is easy to follow**
- **It's easier to debug, by following the logic of the last or current state and what's outputted you can figure what happened wrong**
- **You can go backwards/forwards in the tree**
- **You can make direct changes to the tree**
- **Can edit elements without refreshing as everything happens in real-time.**

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

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

- **Duplicate code**
- **Common taste**
- **Differences between browser and devices creating compatibility and cross-brower support.**

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3. What essence do JavaScript frameworks elevate?

- **Code is more modular,  additional complexity is hidden**
- **Faster loading on web**
- **Logic is better controlled**

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

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

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

**It enables a user to improve code structure and maintain consistency within the application. However, with the continuous updates in programming, having practice with frameworks will allow better understanding regarding collaborative work.**