# 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?

1. Performance boost - Dont have to replace and render a whole new HTML which in big projects can cause a delay.
2. State - When you replace the HTML a customer can end up losing focus which is pretty bad when a user needs to put data in something like an input

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

1. State - Keeping the state updated with the UI can be hard to do so frameworks can help make that process easier
2. Errors - can make debugging easier as if something goes wrong there are fewer points that could be causing the issues from your side.

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3. What essence do JavaScript frameworks elevate?

1. Scalability - As your project grows you can scale up your code easier and without modifying your functionality.
2. Debugging - Same with question 2. Makes debugging easier and fewer points needed to find where the problem stemmed
3. Best Practice - Frameworks provide both best practice principles as well as modular components / tools to make your work both easier to maintain and more productive.

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

They hide away the imperative DOM mutations

1. Components / modules
2. DOM manipulation
3. Handling events
4. Templates

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

JS frameworks can create scalable and maintainable code, if you do not understand the core concepts or fundamentals you will not be able to efficiently utilize the power that a Framework has to offer.