

DWA_04.3 Knowledge Check_DWA4

1. Select three rules from the Airbnb Style Guide that you find **useful** and explain why.

1. Named function expressions instead of function declarations.

- a. Encapsulate and Scope Control - Name function expressions allow you to encapsulate functions within a specific scope. This helps avoid polluting the global namespace with function names that might conflict with other variables or functions.
- b. Improved Debugging - having meaningful names for functions can greatly assist in identifying the source of errors or analyzing stack traces.
- c. Code Readability and Maintainability - Giving functions meaningful names using named function expressions improves the readability and maintainability of your code

2. Object destructuring when accessing and using multiple properties of an object.

- a. Concise Syntax - Instead of repeatedly accessing properties using dot notation or bracket notation, you can destructure the once and access the desired properties directly.
- b. Simplified Assignment - This simplifies the assignment process and reduces the need for repetitive code.
- c. Renaming Variables - This can be helpful when you want to give the variable more meaningful or descriptive names, or when you need to avoid naming conflicts with existing variables in code.

3. Using '/*..*/' for multiline comments.

- a. Documentation - These comments can contain detailed information about purpose, usage, parameters, return values, and any other relevant details of a documented entity.
- b. Commenting Out Blocks of Code - Use for multiline comments allows you to quickly and easily comment out large chunks of code without needing to add '//' in front of each line.

- c. Explanatory Comments - They can help describe complex algorithms, provide context for certain code blocks , or explain the reasoning behind specific implementing choices.
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2. Select three rules from the Airbnb Style Guide that you find **confusing** and explain why.

1. Perform type coercion at the beginning of the statement.

- a. Implicit coercion - if the coercion is not explicitly visible in the code, it becomes harder to understand what transformations are happening behind the scenes.
- b. Loss of precision - if this coercion happens at the beginning of a statement without explicit documentation or explanation, it may not be apparent to other developers or even the original coder.
- c. Maintenance and readability - It might require additional mental effort to understand how different types are being manipulated, especially if multiple coercions are chained together.

2. Prefer higher-order functions instead of loops like for-in or for-of.

- a. Paradigm shift - Developers who are accustomed to imperative programming may find it challenging to adopt this new way of thinking and writing code
- b. Complexity - Understanding how these concepts fit together and interact with each other can be confusing, especially for developers who are new to functional programming.
- c. Debugging - With higher-order functions, the control flow may be distributed across different functions, making it harder to pinpoint the exact location of errors.

3. Using standard modules (import/ export) in programming language

- a. Syntax and Compatibility - If developers are accustomed to a different module system or have experience with an older version of language, they may initially find the new module system syntax and rules confusing.

- b. Learning Curve - Concepts like importing and exporting modules, understanding how module resolution works, and managing dependencies through package managers can be unfamiliar and take time to grasp fully.
 - c. Interoperability - Understanding how to handle imports and exports between different module systems and ensuring interoperability can be challenging.
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