DWA_04.3 Knowledge Check_DWA4

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

1. **<u>Use meaningful variable and function names:</u>**

Use descriptive names for variables and functions to improve code readability. Make code more self-explanatory and reduce the need for excessive comments. Clear and concise names make it easier for others (including the original developer) to understand the purpose and behavior of the code.

2. **<u>Avoid using `var` keyword</u>**:

Against using the `var` keyword for variable declaration and recommends using `const` or `let` instead. This rule promotes the use of block-scoped variables (`let` and `const`), which have more predictable behavior and reduce the risk of accidental reassignment or unexpected scoping issues. By adopting this guideline, developers can write more maintainable and less error-prone code.

3. **<u>Avoid complex ternary expressions</u>**:

Avoid the use of complex ternary expressions and break them into separate statements or using a traditional `if...else` structure. Complex ternary expressions can be challenging to read and understand. By following this rule, developers can improve code readability and reduce the likelihood of introducing bugs or logical errors.

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

1. **<u>Enforce a maximum line length:</u>**

Limiting lines of code to a maximum length (such as 80 or 100 characters) to ensure readability. While this guideline aims to prevent overly long lines that may require horizontal scrolling, it can be confusing for a newcomer who may struggle to fit their code within the specified limit.

Additionally, adhering strictly to line length limitations can sometimes lead to code that appears fragmented or introduces unnecessary line breaks, potentially reducing readability.

2. **Avoid using `++` and `--` operators:**

The Airbnb Style Guide discourages the use of increment (`++`) and decrement (`--`) operators. This rule can be confusing for new developers who are accustomed to these operators and their concise syntax for incrementing or decrementing variables. While the guide offers alternatives like `+= 1` or `-= 1`, the lack of the familiar `++` and `--` operators may initially cause confusion and require adjustment for aspiring software developers.

3. **Require trailing commas in multiline object and array literals:**

Airbnb advises including trailing commas in multiline object and array literals, even after the last item. This rule can be puzzling for new developers who are not accustomed to this convention or have been taught that trailing commas are unnecessary and may lead to syntax errors. While the guideline aims to improve code maintainability by simplifying future modifications (as adding or removing items does not require modifying adjacent lines), it may initially appear counterintuitive and unfamiliar to those starting their coding journey.

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