

DWA_07.4 Knowledge Check_DWA7

1. Which were the three best abstractions, and why?

1. Selector Object: My code uses a neat structure with clear names and grouped elements. This makes it easy to follow.

2.Event Handling Functions: My code uses functions to do specific tasks, making it easier to manage and understand.

3. Createpreviewfragment: My code reuses functions and objects, which is great for saving time and reducing errors.

2. Which were the three worst abstractions, and why?

1. Implicit Global Variables: My code uses global variables without restraint, which can lead to confusion and errors. It's better to limit them to where they're really needed.

2. Binding Events in a Loop: My code binds events (like clicks) inside a loop, which can be slow and less efficient when there are lots of elements. Using "event delegation" would be a smarter choice.

3.DOM Manipulation: Sometimes, my code does tasks that could be made into reusable functions but doesn't. Sharing functions can make your code more efficient and cooperative.

3. How can The three worst abstractions be improved via SOLID principles.

1. Single Responsibility Principle (SRP):

- In My code, I have a function called ``createPreviewsFragment``. It's responsible for generating HTML elements for book previews. This function is not only responsible for creating previews, but it would be better if it was.

2. Open/Closed Principle (OCP):

- In my code, if I want to add new functionality, like showing book ratings, I should do it without modifying the existing functions like `createPreviewsFragment`. This follows the Open/Closed Principle because I can extend my code without changing what's already working.

```
"selectors.settingsSave.addEventListener("submit", themeUpdate);"
```

If I wanted to add a feature relating to "settingSave", I would have to modify this line.

3. Liskov Substitution Principle (LSP)

- In my code, I have a function `createPreviewsFragment`. Right now, it works with my book data to create previews.

- If I decide to change the way I store or retrieve book data, like from a different source or format, I should be able to do that without breaking the `createPreviewsFragment` function. It should still work smoothly with the new data source.
