

# DWA\_07.4 Knowledge Check\_DWA7

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

```
1  /**
2   * @typedef {Object} selectors - html element data attribute values
3
4   *
5   */
6
7  /**
8   * Html object containing Html data Attributes
9   * @type {selectors}
10  */
11  const selectors = {
12    dataListItem: document.querySelector("[data-list-items]"),
13    dataSearchGenres: document.querySelector("[data-search-genres]"),
14    dataSearchAuthors: document.querySelector("[data-search-authors]"),
15    dataSettingTheme: document.querySelector("[data-settings-theme]"),
16    dataListButton: document.querySelector("[data-list-button]"),
17    dataSearchCancel: document.querySelector("[data-search-cancel]"),
18    dataSettingsCancel: document.querySelector("[data-settings-cancel]"),
19    dataSearchOverlay: document.querySelector("[data-search-overlay]"),
20    dataSettingsOverlay: document.querySelector("[data-settings-overlay]"),
21    dataHeaderSearch: document.querySelector("[data-header-search]"),
22    dataSearchTitle: document.querySelector("[data-search-title]"),
23    dataHeaderSettings: document.querySelector("[data-header-settings]"),
24    dataListClose: document.querySelector("[data-list-close]"),
25    dataSettingsForm: document.querySelector("[data-settings-form]"),
26    dataListActive: document.querySelector("[data-list-active]"),
27    dataListMessage: document.querySelector("[data-list-message]"),
28    dataSearchForm: document.querySelector("[data-search-form]"),
29    dataListBlur: document.querySelector("[data-list-blur]"),
30    dataListImage: document.querySelector("[data-list-image]"),
31    dataListTitle: document.querySelector("[data-list-title]"),
32    dataListSubtitle: document.querySelector("[data-list-subtitle]"),
33    dataListDiscription: document.querySelector("[data-list-description]"),
34  };
```

In this abstraction all the querySelectors have been grouped up so they can be accessed easier.



```


1  /**
2   * Default html for preview
3   * @param {string} picture
4   * @param {string} heading
5   * @param {Object} object
6   * @param {string} property
7   * @returns {string}
8   */
9  const previewHtml = (picture, heading, object, property ) => {
10    return `
11      
15
16      <div class="preview__info">
17        <h3 class="preview__title">${heading}</h3>
18        <div class="preview__author">${object[property]}</div>
19      </div>
20    `
21  }

```

In this abstraction the html was used 3 times and using this abstraction makes it easier to read and not having to make unnecessary mistakes.

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



```
1 // Generate new book previews for the next page
2 for (const { author, id, image, title } of matches.slice(
3   page * BOOKS_PER_PAGE,
4   (page + 1) * BOOKS_PER_PAGE
5 )) {
6   const element = document.createElement("button");
7   // @ts-ignore
8   element.classList = "preview";
9   element.setAttribute("data-preview", id);
10
11   element.innerHTML = previewHtml(image, title, authors, author)
12
13   fragment.appendChild(element);
14 }
```

In this for of loop the calculation done after the match.slice can be made into a separate function as writing it like this makes it more complex.

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

-In this for of loop the calculation done after the match.slice can be made into a separate function as writing it like this makes it more complex.

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