

# DWA\_07.4 Knowledge Check\_DWA7

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

```
const starting = document.createDocumentFragment();

/**
 *
 * @param {string} author
 * @param {string} id
 * @param {string} image
 * @param {string} title
 * @returns {HTMLElement}
 */
const createElement = (author, id, image, title) =>{
  const element = document.createElement('button')
  element.classList = 'preview'
  element.setAttribute('data-preview', id)

  element.innerHTML = `

<div class="preview__info">
<h3 class="preview__title">${title}</h3>
<div class="preview__author">${authors[author]}</div>
</div>
`
  return element
}
```

```
const Createfragment = (type , name) =>{
  const OptHTML = document.createDocumentFragment();
  const firstElement = document.createElement('option');
  firstElement.value = 'any';
  firstElement.innerText = `All ${name}`
  OptHTML.appendChild(firstElement)

  for (const [id, name] of Object.entries(type)) {
    const element = document.createElement('option')
```

```
element.value = id
element.innerText = name
OptHTML.appendChild(element)
}
return OptHTML
}
```

```
const toggleTheme = (theme) => {

  if (theme === 'night') {
    document.documentElement.style.setProperty('--color-dark', '255, 255, 255');
    document.documentElement.style.setProperty('--color-light', '10, 10, 20');
  } else {
    document.documentElement.style.setProperty('--color-dark', '10, 10, 20');
    document.documentElement.style.setProperty('--color-light', '255, 255, 255');
  }

}
```

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

```
const toggleTheme = (theme) => {

  if (theme === 'night') {
    document.documentElement.style.setProperty('--color-dark', '255, 255, 255');
    document.documentElement.style.setProperty('--color-light', '10, 10, 20');
  } else {
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    document.documentElement.style.setProperty('--color-light', '255, 255, 255');
  }

}
```

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3. How can The three worst abstractions be improved via SOLID principles.  
Use **Interface Segregation Principle (ISP)** and **liskov pricipal**

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