

**САНКТ-ПЕТЕРБУРГСКИЙ НАЦИОНАЛЬНЫЙ
ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ ИТМО**

Дисциплина: Фронт-энд разработка

Отчет

Домашняя работа 4: CSS-переменные, темизация сайта
средствами CSS

Выполнил:

Конев Антон

К33402

Проверил:

Добряков Д. И.

Санкт-Петербург

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Задание

Вынести все используемые ранее SVG-иконки в общий SVG-спрайт.

Ход работы

Создание файла sprite.svg и внесение в него всех иконок

```
<svg xmlns="http://www.w3.org/2000/svg" xmlns:xlink="http://www.w3.org/1999/xlink">
  <symbol id="arrow" viewBox="0 0 16 16">
    <path fill-rule="evenodd"
          d="M1 8a7 7 0 1 0 14 0A7 7 0 0 1 8zm15 0A8 8 0 1 1 0 8a8 8 0 0 1 16 0zm-4.5-.5a.5.5 0 0 1 0 1H5.707L2.147 2.146a.5.5 0 0 1-.707 0L1 8"
        />
  </symbol>

  <symbol id="sort" viewBox="0 0 16 16">
    <path fill-rule="evenodd"
          d="M11.5 15a.5.5 0 0 0 .5-.5V2.707L3.146 3.147a.5.5 0 0 0 .708-.708l-4-4a.5.5 0 0 0-.708 0l-4 4a.5.5 0 1 0 .708.708L11 2.707V15"
        />
  </symbol>

  <symbol id="chart" viewBox="0 0 16 16">
    <path fill-rule="evenodd"
          d="M0 0h1v15h15v1H0V0Zm14.817 3.113a.5.5 0 0 1 .07.704l-4.5 5.5a.5.5 0 0 1-.74.037L7.06 6.767l-3.656 5.027a.5.5 0 0 1-.808-.58"
        />
  </symbol>

  <symbol id="logout" viewBox="0 0 16 16">
    <path fill-rule="evenodd"
          d="M6 3.5a.5.5 0 0 1 .5-.5h8a.5.5 0 0 1 .5.5v9a.5.5 0 0 1-.5.5h-8a.5.5 0 0 1-.5-.5v-2a.5.5 0 0 1 0v2A1.5 1.5 0 0 0 6.5 14h8a.5.5 0 0 0 .5-.5"
        />
    <path fill-rule="evenodd"
          d="M11.854 8.354a.5.5 0 0 0-.708l-3-3a.5.5 0 1 0-.708.708L10.293 7.5H1.5a.5.5 0 0 0 0 1h8.793l-2.147 2.146a.5.5 0 0 0 .708.708"
        />
  </symbol>

  <symbol id="clear" viewBox="0 0 24 24">
    <path
          d="M 4.7070312 3.2929688 L 3.2929688 4.7070312 L 10.585938 12 L 3.2929688 19.292969 L 4.7070312 20.707031 L 12 13.414062 L 19.292969 20.707031 L 20.707031 13.414062 L 12 6.185938 L 4.7070312 3.2929688"
        />
  </symbol>

  <symbol id="search" viewBox="0 0 16 16">
    <path
          d="M11.742 10.344a6.5 6.5 0 1 0-1.397 1.398h-.001c.03.04.062.078.098.115l3.85 3.85a1 1 0 0 0 1.415-1.414l-3.85-3.85a1.007 1.007 0 0 0 0.001 0"
        />
  </symbol>

  <symbol id="logo" viewBox="0 0 229.9 41.1">
    <path fill="#0052FF" d="M46.4,11.5c-8.4,0-14.9,6.3-14.9,14.8c0,8.5,6.4,14.8,14.9,14.8c8.5,0,15-6.4,15-14.8
      C61.4,17.9,55,11.5,46.4,11.5z M46.5,34.9c-4.8,0-8.2-3.7-8.2-8.7c0-5,3.4-8.7,8.2-8.7c4.8,0,8.3,3.7,8.3,8.7S51.2,34.9,46.5,34.9
      z M63.2,17.9h4.1v22.6H74V12H63.2V17.9z M14.8,17.6c3.5,0,6.3,2.1,7.3,5.3h7c-1.3-6.8-6.9-11.5-14.3-11.5c6.5,11.5,0,17.8,0,26.3
      s6.4,14.8,14.9,14.8c7.2,0,12.9-4.6,14.2-11.5h-7c-1,3.2-3.8,5.4-7.2,5.4c-4.8,0-8.2-3.7-8.2-8.7c6.7,21.3,10,17.6,14.8,17.6z
      M189.3,23.5l-4.9-0.7c-2.3-0.3-4-1.1-4-2.9c0-2,2.2-3,5.1-3c3.2,0,5.3,1.4,5.7,3.6h6.4c-0.7-5.7-5.1-9.1-11.9-9.1
      c-7,0-11.7,3.6-11.7,8.7c0,4.8,3,7.7,9.2,8.5l4.9,0.7c2.4,0,3,3.7,1.3,3.7,3c0,2.3-2.3,3.2-5.5,3.2c-3.9,0-6.1-1.6-6.5-4h-6.5
      c0.6,5.6,5.9,5,12.9,9.5c7.2,0,12.1-3.3,12.1-9c198.3,27,194.8,24.4,189.3,23.5z M70.7,0.3c-2.4,0-4.3,1.8-4.3,4.2
      s1.8,4.2,4.3,4.2c2.4,0,4.3-1.8,4.3-4.2S73.1,0,3,70.7,0.3z M168.1,21.8c0-6.2-3.8-10.3-11.7-10.3c-7.5,0-11.7,3.8-12.6,9.6h6.6
      c0.3-2.3,2.1-4.1,5.9-4.1c3.4,0,5,1.5,5,3.3c0,2.4-3,3-6.8,3.4c-5.1,0.6-11.4,2.3-11.4,8.9c0,5.1,3.8,8.4,9.9,8.4
      c4.8,0,7.7-2.9,2-5.1c0,2,2.8,2.3,4.6,5.3,4.6h3.9v-5.9h-3.3L168.1,21.8z M161.5,28.9c0,3.8-3.3,6.6-7.4,6.6
      c-2.5,0-4.6-1.4-6-3.3c0-2.8,3.4-3.6,6.5-3.9c3-0.3,4.6-0.9,5.5-2.2V28.9z M126.3,11.5c-3.7,0-6.8,1.5-9.4,1.0h0h-6.6v40.5h6.5v-3.7
      c2.2,2.7,5.4,4.3,9.1,4.3c8,0,14-6.3,14-14.8S134.2,11.5,126.3,11.5z M125.3,34.9c-4.8,0-8.2-3.7-8.2-8.7c3.5-8.7,8.3-8.7
      c4.8,0,8.2,3.7,8.2,8.7c133.6,31.3,130.1,34.9,125.3,34.9z M94.8,11.5c-4.3,0-7.1,1.8-8.8,4.2V12h-6.6v28.5H86V25
      c0-4.4,2.8-7.4,6.9-7.4c3.8,0,6.2,2.7,6.2,6.6v16.3h6.6V23.7c105.7,16.5,102,11.5,94.8,11.5z M229.9,25.4c0-8.2-6-13.9-14-13.9
      c-8.5,0-14.8,6.4-14.8,14.8c0,8.9,6.7,14.8,14.9,14.8c6.9,0,12.3-4.1,13.7-9.9h-6.9c-1,2.5-3.4,4-6.7,4c-4.3,0-7.5-2.6-8.2-7.3h22
      L229.9,25.4L229.9,25.4z M208.3,23.2c1.1-4,4-5.9,7.5-5.9c3.8,0,6.6,2.1,7.3,5.9H208.3z"/>
  </symbol>

  <symbol id="small-logo" viewBox="0 0 1024 1024">
    <path fill="#0052FF" d="M512,0L512,0c282.8,0,512,229.2,512,512L0,282.8-229.2,512-512,512,0c229.2,1024,0,794.8,0,512L0,0,229.2,229.2,0,512,0z"/>
    <path fill="FFFFFF" d="M512,1,692c-99.4,0-180-80.5-180-180s80.6-180,180-180c89.1,0,163.1,65,177.3,150h181.3"
        />
  </symbol>
</svg>
```

Пример использования SVG-спрайта

```
<tr class="search-row p-2 bg-light">
  <td colspan="5" class="align-middle search-header">
    <div class="input-group w-50 ps-2 d-flex flex-row">
      <div class="p-2 align-content-center bg-light search-icon" id="basic-addon1"
        style="border: 1px solid lightgrey">
        <svg style="width: 25px; height: 25px">
          <use xlink:href="sprite.svg#search">
          </use>
        </svg>
      </div>
      <label class="w-50 label-search">
        <input type="text" class="form-control" style="height: 45px" onchange="search()"
          placeholder="Поиск по названию">
      </label>
      <button class="bg-light clear" onclick="clear_search()" style="border: 1px solid lightgrey">
        <svg style="width: 30px; height: 30px">
          <use xlink:href="sprite.svg#clear">
          </use>
        </svg>
      </button>
    </div>
  </td>
</tr>
<tr class="head-row border-light">
  <th class="fw-normal ps-4 align-middle">Название
    <button class="sort-arrow" onclick="sort_name()">
      <svg style="width: 15px; height: 15px">
        <use xlink:href="sprite.svg#sort">
        </use>
      </svg>
    </button>
  </th>
  <th class="fw-normal align-middle">Цена
    <button class="sort-arrow" onclick="sort_price()">
      <svg style="width: 15px; height: 15px">
        <use xlink:href="sprite.svg#sort">
        </use>
      </svg>
    </button>
  </th>
  <th class="fw-normal align-middle">Изменение
    <button class="sort-arrow" onclick="sort_change()">
      <svg style="width: 15px; height: 15px">
        <use xlink:href="sprite.svg#sort">
        </use>
      </svg>
    </button>
  </th>
</tr>
```

Вывод

По результатам домашней работы все использованные иконки были вынесены в общий SVG-спрайт, что уменьшило количество одинакового кода.