Frontender[1.0] Работа с SVG. Векторная графика. Спрайты

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# Номер урока	54

💡 **SVG спрайты** - это техника использования нескольких SVG-изображений, объединенных в один файл. Вместо того, чтобы загружать множество отдельных файлов, используется один файл, который содержит множество различных изображений. Каждое изображение в спрайте имеет свой уникальный идентификатор (ID), по которому оно может быть выбрано и использовано на веб-странице.

Преимущества использования **SVG спрайтов** включают:

1. Уменьшение числа запросов к серверу. Вместо загрузки множества отдельных файлов, используется один файл, что уменьшает количество запросов к серверу и снижает время загрузки страницы.

2. Уменьшение размера файла. SVG спрайты обычно имеют меньший размер, чем множество отдельных файлов, что уменьшает количество передаваемых данных и ускоряет загрузку страницы.

3. Гибкость и масштабируемость. Каждое изображение в спрайте может быть использовано многократно и масштабировано без потери качества.

4. Управление стилями и анимациями. Каждое изображение в спрайте может быть стилизовано и анимировано независимо от других изображений в спрайте.

Для создания SVG спрайтов можно использовать:
https://svg-sprite-generator.vercel.app/

В целом, **SVG спрайты** - это эффективный способ улучшить производительность и гибкость использования SVG-изображений на веб-странице.

SVG спрайты:

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V37.9807V38.0066V38.0321V38.0577V38.083V38.1086V38.1339V38.1591V38.1844V38.2095V38.2347V38.2598V38.2845V38.3095V38.3343V38.359V38.3835V3
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7V39.8982V39.9163V39.9345V39.9526V39.9705V39.9883V40.0059V40.0235V40.0411V40.0587V40.0758V40.0931V40.1101V40.1272V40.1439V40.1607V40.177
5V40.194V40.2102V40.2267V40.2429V40.2588V40.2748V40.2907V40.3064V40.3221V40.3375V40.3529V40.3682V40.3834V40.3982V40.4133V40.4279V40.4427
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0.686V40.6984V40.7105V40.7226V40.7344V40.7462V40.7581V40.7696V40.7809V40.7924V40.8034V40.8144V40.8254V40.8361V40.8468V40.8573V40.8677V4
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41.2169V41.2213V41.2251V41.2284V41.232V41.2347C30.25 42.753 29.0188 43.984 27.5 43.984C25.9812 43.984 24.75 42.7533 24.75 41.235V41.232V
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5V40.9079V40.898V40.8881V40.8779V40.8677V40.8573V40.8468V40.8361V40.8254V40.8144V40.8034V40.7924V40.7809V40.7696V40.7581V40.7462V40.7344
V40.7226V40.7105V40.6984V40.686V40.6734V40.661V40.6481V40.6354V40.6225V40.6093V40.5961V40.5827V40.5692V40.5557V40.542V40.5282V40.5142V4
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9058V38.883V38.8601V38.8371V38.814V38.7906V38.7672V38.7439V38.7205V38.6969V38.6732V38.6496V38.6257V38.6017V38.5778V38.5539V38.5297V38.50
55V38.4813V38.4571V38.4327V38.4082V38.3835V38.359V38.3343V38.3095V38.2845V38.2598V38.2347V38.2095V38.1844V38.1591V38.1339V38.1086V38.083
V38.0577V38.0321V38.0066V37.9807V37.9549V37.9291V37.9032V37.8774V37.8513V37.8251V37.799V37.7726V37.7465V37.7201V37.6937V37.6671V37.6407V
37.614V37.5874V37.5607V37.5337V37.5071V37.4801V37.4532V37.426V37.399V37.3718V37.3446V37.3174V37.2902V37.2627V37.2352V37.2077V37.1802V37.
1527V37.125V37.0975V37.0697V37.042V37.0139V36.9861V36.9581V36.9301V36.902V36.874V36.8457V36.8176V36.7893V36.761V36.7327V36.7044V36.6758V
36.6472V36.6189V36.5903V36.5614V36.5328V36.5042V36.4754V36.4465V36.4177V36.3888V36.3599V36.3311V36.3019V36.2728V36.2436V36.2145V36.1854V
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V34.0706V34.0398V34.009V33.9779V33.9471V33.9161V33.8853V33.8542V33.8234V33.7924V33.7616V33.7305V33.6997V33.6687V33.6379V33.6068V33.576V3
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V31.9442V31.9137V31.8832V31.8529V31.8227V31.7922V31.7619V31.7317V31.7015V31.6712V31.641V31.6108V31.5808V31.5506V31.5206V31.4903V31.4604V
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8769V28.8651V28.8532V28.8414V28.8296V28.8178V28.8059V28.7941V28.7823V28.7702V28.7584V28.7466V28.7348V28.7227V28.7108V28.6987V28.6869V28.
6748V28.6627V28.6509V28.6388V28.6267V28.6149V28.6028V28.5907V28.5786V28.5665V28.5544V28.5423V28.5302V28.5181V28.506V28.4939V28.4816V28.4
695V28.4574V28.4453V28.4329V28.4208V28.4087V28.3963V28.3843V28.3719V28.3598V28.3474V28.3353V28.323V28.3109V28.2985V28.2861V28.274V28.261
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7.8295V27.8171V27.8048V27.7924V27.78V27.7674V27.755V27.7426V27.7303V27.7179V27.7055V27.6932V27.6808V27.6684V27.656V27.6439V27.6316V27.61
92V27.6068V27.5945V27.5821V27.5697V27.5574V27.545V27.5326V27.5205V27.5081V27.4958V27.4834V27.4713V27.4589V27.4466V27.4342V27.4221V27.409
7V27.3974V27.3853V27.3729V27.3608V27.3484V27.3363V27.324V27.3119V27.2995V27.2874V27.2753V27.2629V27.2508V27.2387V27.2264V27.2143V27.2022
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2V25.8521V25.8425V25.8326V25.823V25.8134V25.8038V25.7941V25.7848V25.7752V25.7658V25.7562V25.7469V25.7375V25.7282V25.7188V25.7095V25.7001
V25.6911V25.6817V25.6726V25.6636V25.6545V25.6454V25.6364V25.6273V25.6185V25.6094V25.6006V25.5918V25.583V25.5742V25.5654V25.5566V25.5481V
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8757V24.8719V24.868V24.8642V24.8603V24.8567V24.8532V24.8493V24.846V24.8424V24.8389V24.8356V24.8323V24.829V24.8257V24.8226V24.8196V24.816
6V24.8136V24.8106V24.8078V24.8048V24.802V24.7968V24.7919V24.7869V24.7822V24.7778V24.7737V24.7699V24.766V24.7627V24.7594V24.7553V24.7525V
24.7493V24.7465V24.7432C24.75 23.2249 25.9812 21.992 27.5 21.992Z"/>
      </symbol>
</svg>
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Анимированный SVG принтер:

```
<svg width="100" height="100" viewBox="0 0 100 100" fill="none"
    xmlns="http://www.w3.org/2000/svg" style="width: 200px; height: 200px;" id="printing">
    <style>
     .line-3d-printing1-overall {animation:line-3d-printing1-overall 10s infinite;}
     @keyframes line-3d-printing1-overall {
        0%{transform: translate3d(0, 0, 0);}
        10%{transform: translate3d(0, 0, 0);}
        15%{transform: translate3d(0, 14px, 0);}
        35%{transform: translate3d(0, 14px, 0);}
        40%{transform: translate3d(0, 0, 0);}
        65%{transform: translate3d(0, 0, 0);}
        70%{transform: translate3d(0, 14px, 0);}
        85%{transform: translate3d(0, 14px, 0);}
        90%{transform: translate3d(0, 0, 0);}
        100%{transform: translate3d(0, 0, 0);}
     }
     .line-3d-printing1-tool {animation:line-3d-printing1-tool 10s infinite;}
     @keyframes line-3d-printing1-tool {
        0%{transform: translate3d(0, 0, 0);}
        10%{transform: translate3d(0, 0, 0);}
        15%{transform: translate3d(0, 0, 0);}
        20%{transform: translate3d(-3px, 0, 0);}
        25%{transform: translate3d(3px, 0, 0);}
        30%{transform: translate3d(0, 0, 0);}
        45%{transform: translate3d(0, 0, 0);}
        55%{transform: translate3d(0, 0, 0);}
        65%{transform: translate3d(-25px, 0, 0);}
        75%{transform: translate3d(-25px, 0, 0);}
        80%{transform: translate3d(-20px, 0, 0);}
        85%{transform: translate3d(-25px, 0, 0);}
        90%{transform: translate3d(-25px, 0, 0);}
        100%{transform: translate3d(0, 0, 0);}
     }
     @media (prefers-reduced-motion: reduce) {
        .line-3d-printing1-overall, .line-3d-printing1-tool {
            animation: none;
        }
     }
    </style>
    <rect class="fill1 stroke1" x="9" y="9" width="83" height="84" rx="4" fill="#fff" stroke="#000" stroke-width="2px" style="animation-
duration: 10s;"></rect>
    <path class="fill1 stroke1" d="M23 71C23 69.8954 23.8954 69 25 69H76C77.1046 69 78 69.8954 78 71V75H23V71Z" fill="#fff" stroke-width
="2px" style="animation-duration: 10s;"></path>
    <path class="fill1 stroke1" d="M78 75V71C78 69.8954 77.1046 69 76 69H25C23.8954 69 23 69.8954 23 71V75M78 75H23M78 75H86V15H15V75H2
3" stroke="#000" stroke-width="2px" style="animation-duration: 10s;"></path>
    <g class="line-3d-printing1-overall fill1 stroke1" style="animation-duration: 10s;">
        <rect class="fill2 stroke2" x="15" y="29" width="71" height="7" fill="#fff" stroke="#000" stroke-width="2px" style="animation-du
ration: 10s;"></rect>
        <g class="line-3d-printing1-tool fill2 stroke2" style="animation-duration: 10s;">
            <path class="fill2 stroke2" d="M59 24C59 23.4477 59.4477 23 60 23H72C72.5523 23 73 23.4477 73 24V42C73 42.5523 72.5523 43 72
43H70H62H60C59.4477 43 59 42.5523 59 42V24Z" fill="#fff" stroke-width="2px" style="animation-duration: 10s;"></path>
            <path class="fill2 stroke2" d="M62 43V48H70V43H62Z" fill="#fff" stroke-width="2px" style="animation-duration: 10s;"></path>
            <path class="fill2 stroke2" d="M70 48H62L65.1318 53.4806C65.5157 54.1524 66.4843 54.1524 66.8682 53.4806L70 48Z" fill="#fff"
stroke-width="2px" style="animation-duration: 10s;"></path>
            <path class="fill2 stroke2" d="M62 43H60C59.4477 43 59 42.5523 59 42V24C59 23.4477 59.4477 23 60 23H72C72.5523 23 73 23.4477
73 24V42C73 42.5523 72.5523 43 72 43H70M62 43V48M62 43H70M62 48H70M62 48L65.1318 53.4806C65.5157 54.1524 66.4843 54.1524 66.8682 53.4806
L70 48M70 48V43" stroke="#000" stroke-width="2px" style="animation-duration: 10s;"></path>
        </g>
    </g>
    <circle class="fill2 stroke2" cx="20" cy="84" r="4" fill="#fff" stroke="#000" stroke-width="2px" style="animation-duration: 10s;"></
circle>
    <circle class="fill2 stroke2" cx="33" cy="84" r="4" fill="#fff" stroke="#000" stroke-width="2px" style="animation-duration: 10s;"></
circle>
    <circle class="fill2 stroke2" cx="46" cy="84" r="4" fill="#fff" stroke="#000" stroke-width="2px" style="animation-duration: 10s;"></
circle>
</svg>
```

Анимированная SVG ракета:

```
<svg width="100" height="100" viewBox="0 0 100 100" fill="none"
    xmlns="http://www.w3.org/2000/svg" style="width: 112px; height: 112px;">
    <style>
     .line-rocket1 {animation:line-rocket1-flame 200ms infinite linear; transform-origin: 34px 70px;}
     @keyframes line-rocket1-flame {
        0%{transform:scale(1);}
        50%{transform:scale(1.5);}
     }
     @media (prefers-reduced-motion: reduce) {
        .line-rocket1 {
```

```
                animation: none;
            }
        }
    </style>
    <path class="stroke1 fill1" d="M23.0423 33.6122L34.8942 44.674L57.9797 21.5885C57.9797 21.5885 48.2127 18.0368 38.0018 20.7005C32.37
71 22.1678 25.8108 28.0755 22.9855 30.824C22.1921 31.5959 22.233 32.8568 23.0423 33.6122Z" fill="#FFF" stroke="#000" stroke-width="2.1p
x"></path>
    <path class="stroke1 fill1" d="M68.8384 79.1389L57.5715 67.4818L80.2505 43.997C80.2505 43.997 83.9721 53.7004 81.487 63.9562C80.1181
69.6057 74.3259 76.2741 71.6272 79.147C70.8692 79.9538 69.6077 79.9348 68.8384 79.1389Z" fill="#FFF" stroke="#000" stroke-width="2.1px">
</path>
    <path class="fill1" d="M48.4639 73.5645L29.1921 54.2927C27.8323 52.9329 27.6346 50.8041 28.7698 49.2518C31.5469 45.4541 37.0548 38.2
696 43.4415 31.8028C52.6523 22.4763 63.5869 15.2089 63.5869 15.2089C63.5869 15.2089 90.8321 6.49408 92.608 7.38198C94.3838 8.26989 86.39
26 37.5707 86.3926 37.5707C86.3926 37.5707 81.9531 48.2255 70.8511 59.2124C63.356 66.6298 56.7991 71.5952 53.3297 74.0386C51.8113 75.108
49.7772 74.8778 48.4639 73.5645Z" fill="#FFF" stroke-width="2.1px"></path>
    <path class="stroke1" d="M63.5869 15.2089C63.5869 15.2089 52.6523 22.4763 43.4415 31.8028C37.0548 38.2696 31.5469 45.4541 28.7698 4
9.2518C27.6346 50.8041 27.8323 52.9329 29.1921 54.2927L48.4639 73.5645C49.7772 74.8778 51.8113 75.108 53.3297 74.0386C56.7991 71.5952 6
3.356 66.6298 70.8511 59.2124C81.9531 48.2255 86.3926 37.5707 86.3926 37.5707M63.5869 15.2089C63.5869 15.2089 90.8321 6.49408 92.608 7.3
8198C94.3838 8.26988 86.3926 37.5707 86.3926 37.5707M63.5869 15.2089L86.3926 37.5707" stroke="#000" stroke-width="2.1px"></path>
    <circle class="stroke1 fill1" cx="58.8676" cy="42.8981" r="8.87904" fill="#FFF" stroke="#000" stroke-width="2.1px"></circle>
    <path class="line-rocket1 stroke2 fill2" d="M33.5956 81.36C35.7821 78.4143 37.1248 71.0988 33.1053 67.5155C28.5122 63.4209 19.8661 6
7.5155 17.9048 71.4711C15.0996 77.1284 14.4724 87.2933 14.4724 87.2933C14.4724 87.2933 28.9233 87.6546 33.5956 81.36Z" fill="#FFF" strok
e="#000" stroke-width="2.1px"></path>
</svg>
```

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>SVG Sprites</title>
    <style>
        .icon {
            width: 55px;
            height: 56px;
            /* stroke: royalblue; */
            /* stroke-width: 1px; */
            /* fill: tomato; */
        }

        .icon:hover {
            fill: orange;
        }

        .icon--youtube {
            fill: orangered;
        }

        .icon--linkedin {
            fill: royalblue;
        }

        .printing-icon {
            background: url('animated_svg/printing.svg') center/cover no-repeat;
            width: 100px;
            height: 100px;
        }

        .rocket-icon {
            background: url('animated_svg/rocket.svg') center/cover no-repeat;
            width: 100px;
            height: 100px;
        }
    </style>
</head>

<body>
    <svg class="icon icon--youtube">
        <use href="sprites.svg#youtube"></use>
    </svg>
    <svg class="icon icon--linkedin">
        <use href="sprites.svg#linkedin"></use>
    </svg>

    <div class="printing-icon"></div>
    <div class="rocket-icon"></div>
</body>

</html>
```