



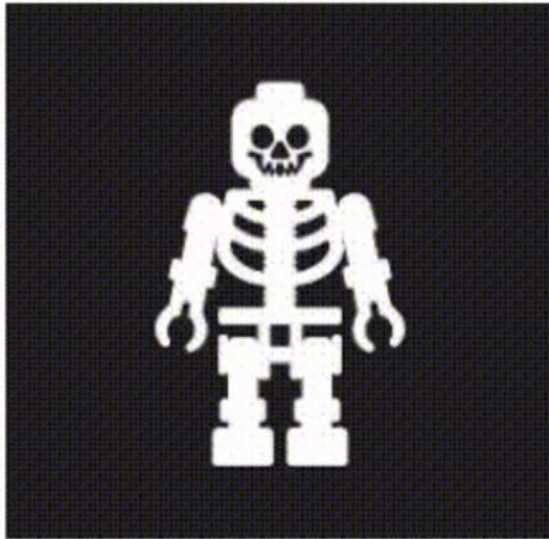
HTML+CSS

Знакомство.
Создание простых объектов
Урок 1

Знакомство с HTML и CSS

2

HTML
structure



CSS
presentation/appearance

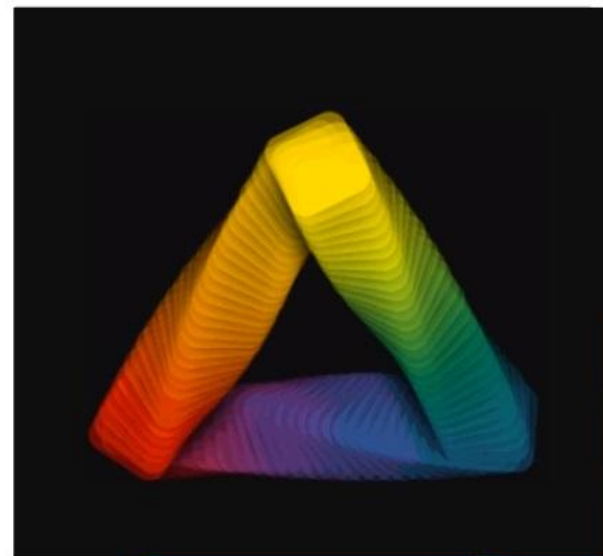
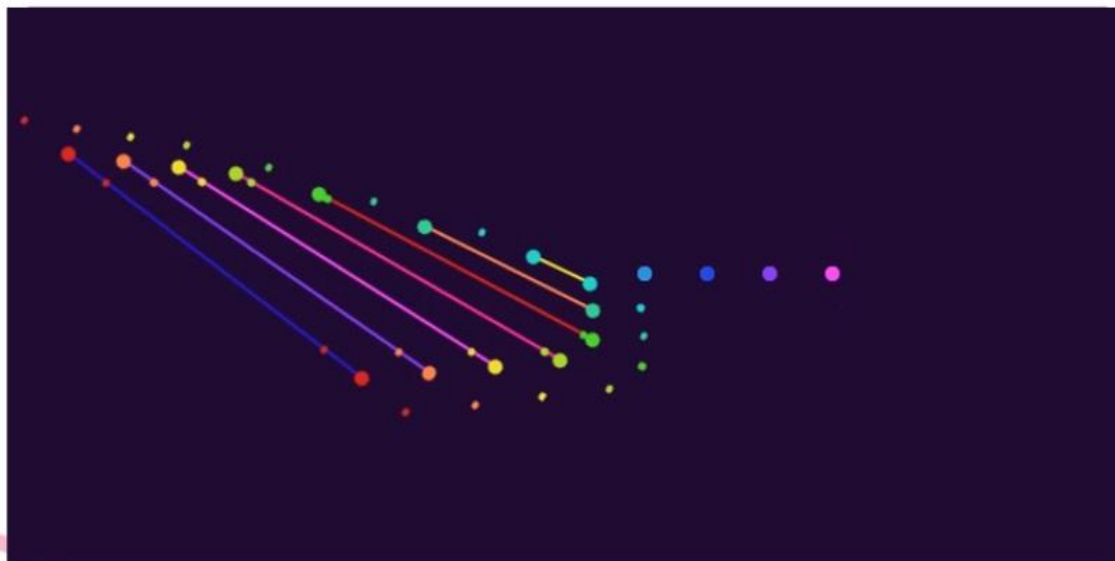


JavaScript
dynamism/action



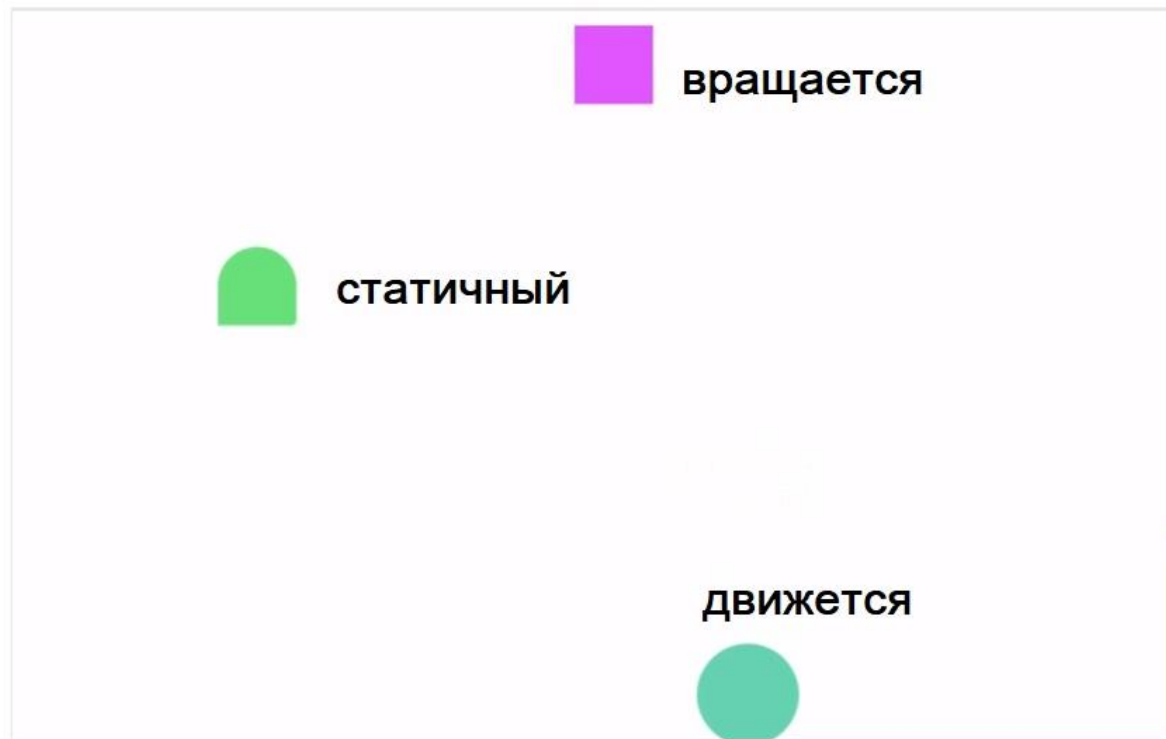
Применение HTML и CSS

3



Что мы сегодня сделаем?

4



Открываем Sublime Text 3

Sublime Text 3

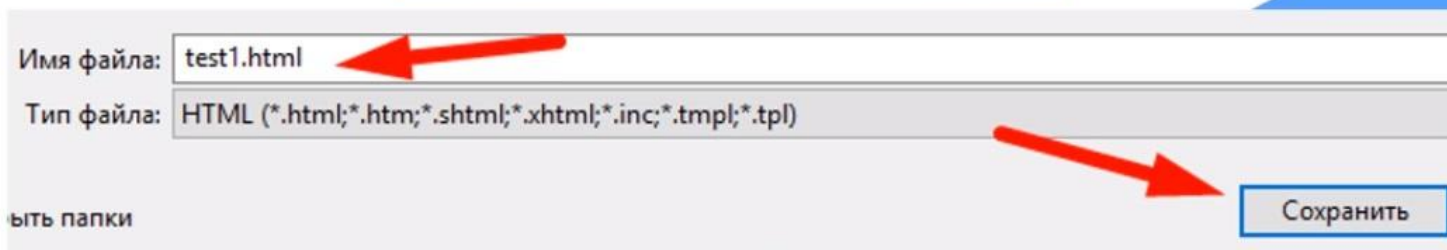
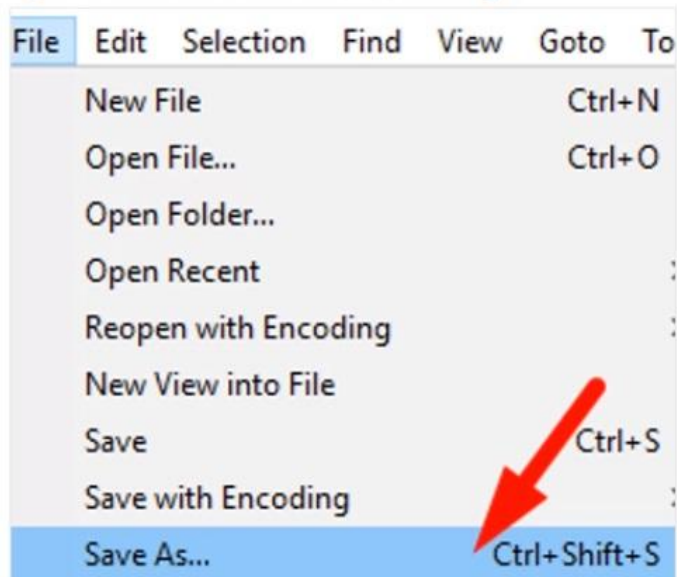
Приложения
Sublime Text 3

Project Preferences Help

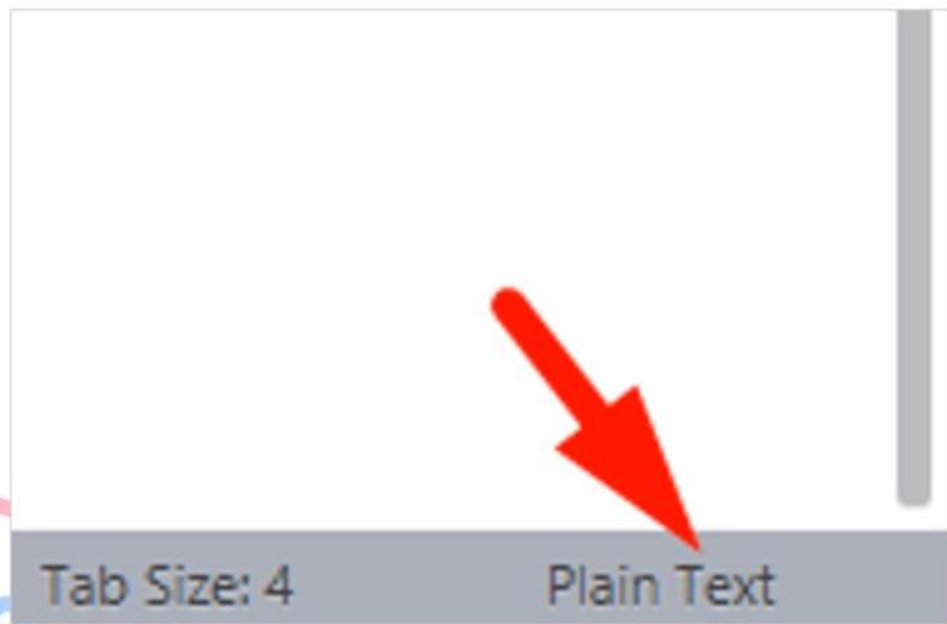
- Browse Packages...
- Settings
- Settings – Syntax Specific
- Settings – Distraction Free
- Key Bindings
- Color Scheme...**
- Theme...
- Font >

- Breakers
- Celeste**
- Mariana
- Monokai
- Sixteen

Сохраняем документ



Настраиваем рабочую среду

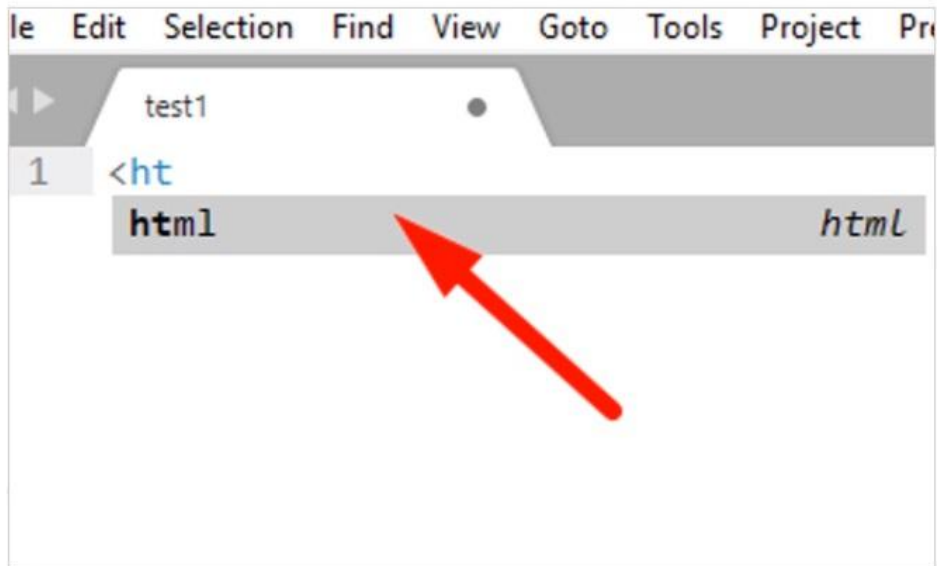


- Erlang >
- Git Formats >
- Go
- Graphviz (DOT)
- Groovy
- Haskell >
- HTML**
- Java >
- JavaScript >
- LaTeX >
- Lisp
- Lua



Создаем основу документа

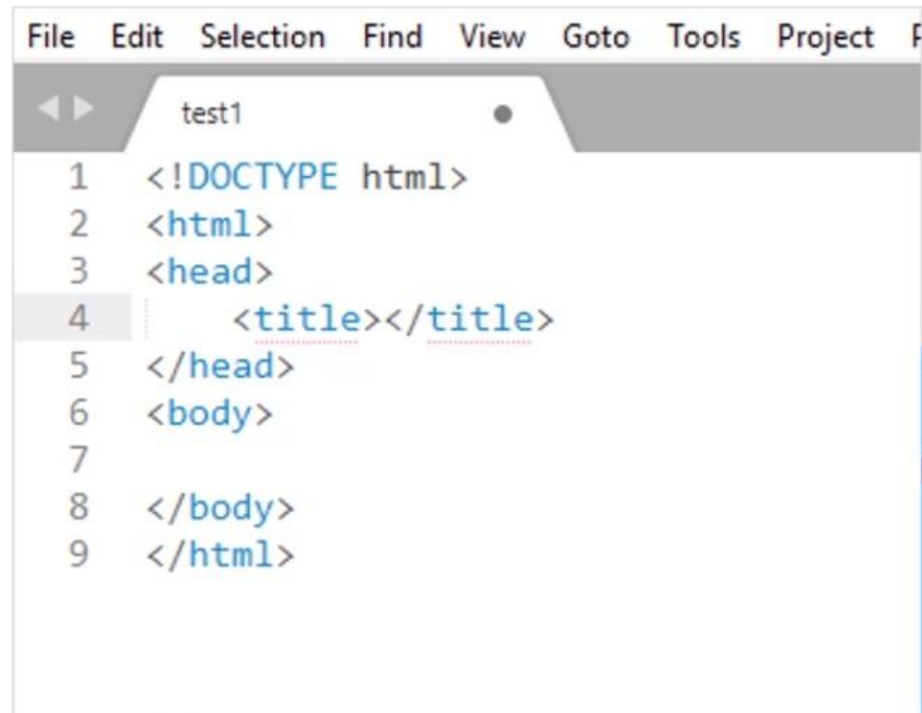
8



le Edit Selection Find View Goto Tools Project Pr

```
1 <ht  
html
```

A red arrow points to the 'html' tag in the code editor.



File Edit Selection Find View Goto Tools Project F

```
test1  
1 <!DOCTYPE html>  
2 <html>  
3 <head>  
4 <title></title>  
5 </head>  
6 <body>  
7  
8 </body>  
9 </html>
```

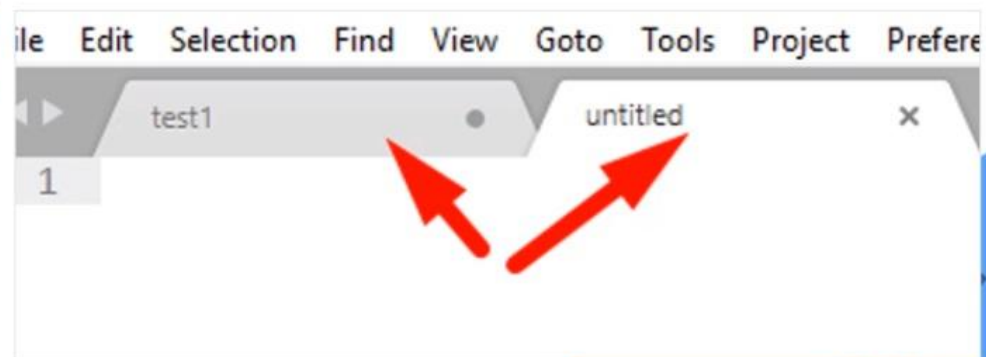
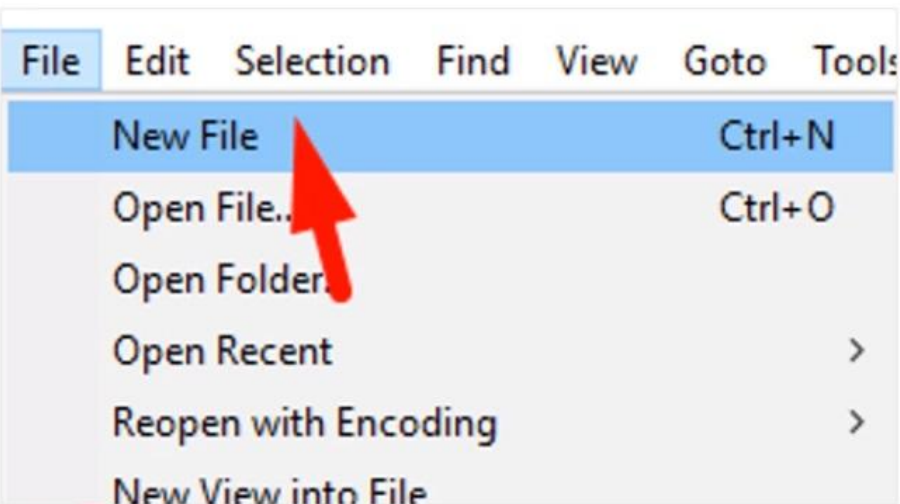

Структура HTML страницы

9

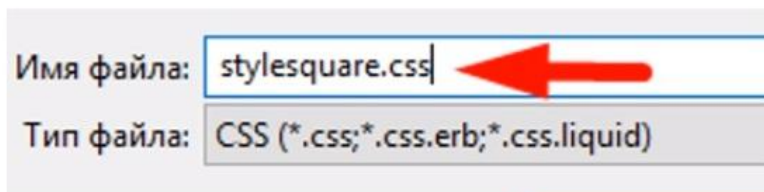
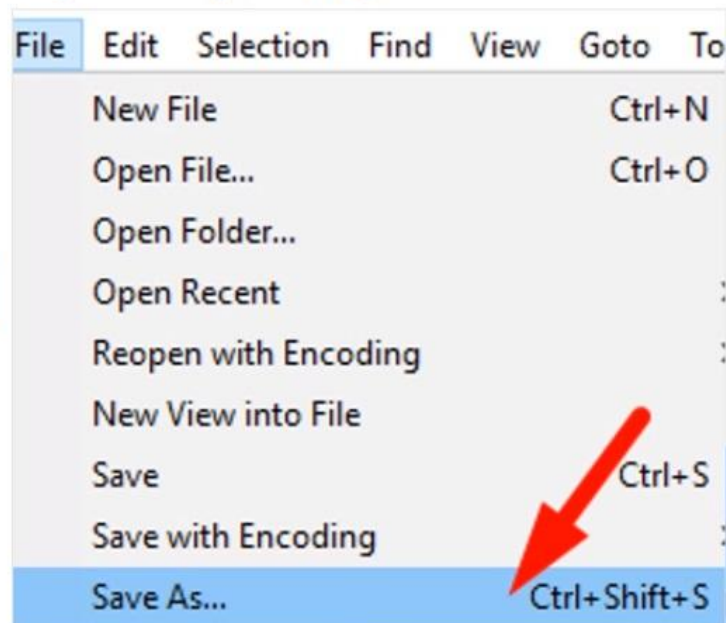
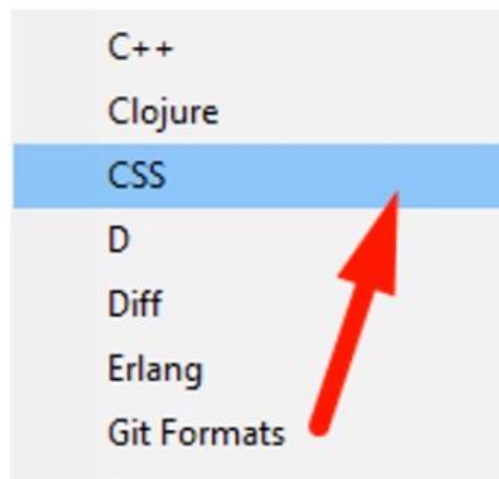
```
File Edit Selection Find View Goto Tools Project Preferences Help
test1
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset = "UTF-8">
5 <title>AnimateBox</title>
6 <link rel = "stylesheet" href="stylesheet.css">
7 </head>
8 <body>
9 <div class="square"></div>
10 </body>
11 </html>
```

Создаем CSS документ

10



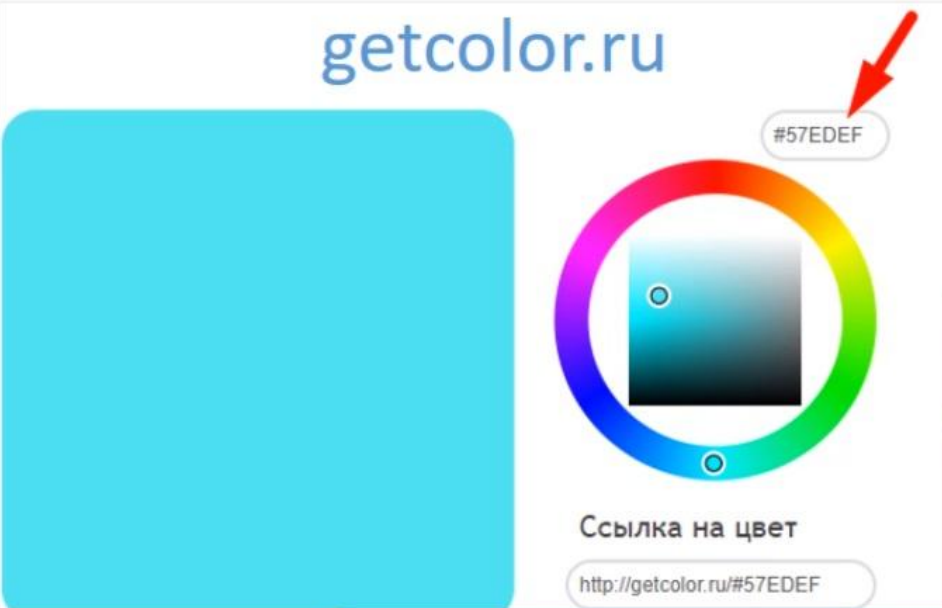
Настраиваем рабочую среду



Работаем с CSS

```
test1.html stylesquare.css x
1 .square{
2   width: 100px;
3   height: 100px;
4   margin: 20px auto;
5   background-color: #D53BF7;
6
7
8 }
```

getcolor.ru



#57EDEF

Ссылка на цвет

<http://getcolor.ru/#57EDEF>

Сохраняем документы

```
test1 stylesquare
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <meta charset = "UTF-8">
5 <title>AnimateBox</title>
6 <link rel = "stylesheet" href="stylesquare.css">
7 </head>
8 <body>
9 <div class="square"></div>
10 </body>
11 </html>
```

```
test1.html stylesquare.css x
1 .square{
2   width: 100px;
3   height: 100px;
4   margin: 20px auto;
5   background-color: #D53BF7;
6
7
8 }
```

File Edit Selection Find Vie

- New File
- Open File...
- Open Folder...
- Open Recent
- Reopen with Encoding
- New View into File
- Save

Открываем веб страницу

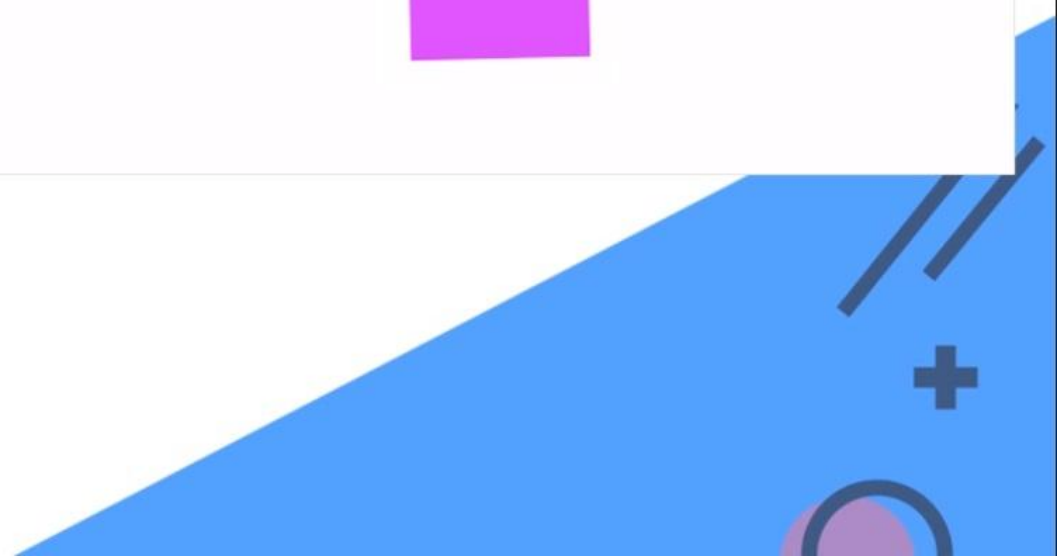
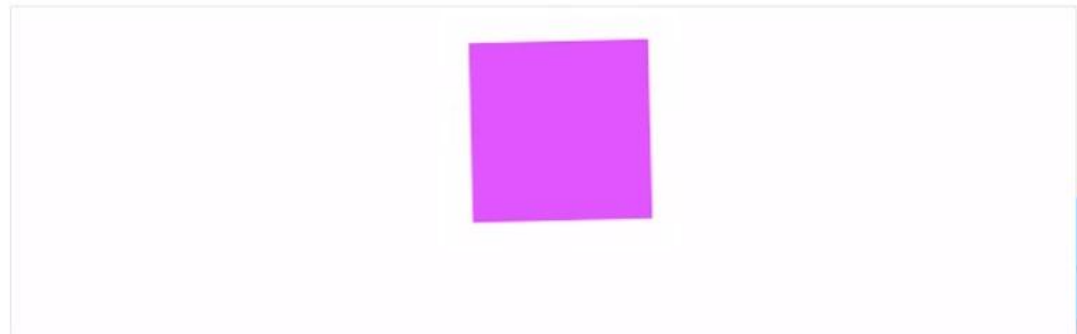
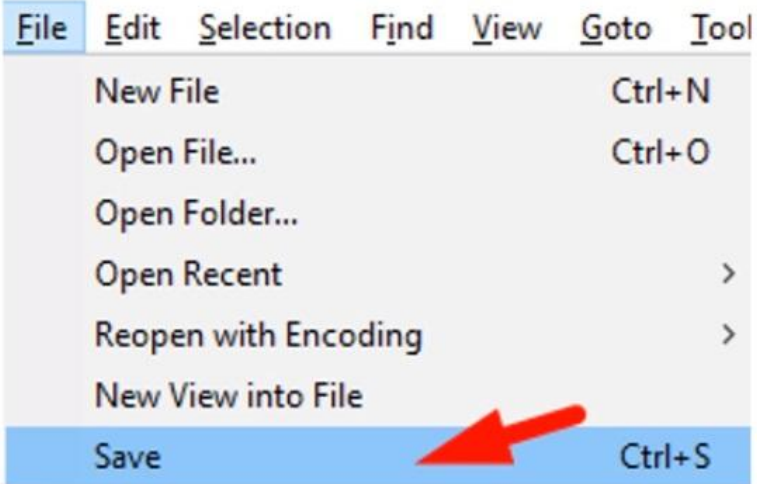
14



Создаём анимацию

```
1  .square{
2    width: 100px;
3    height: 100px;
4    margin: 20px auto;
5    background-color: #D53BF7;
6    animation-name: spin;
7    animation-duration: 3s;
8
9  }
10
11  @keyframes spin {
12    0%{
13      transform: rotate(0deg);
14    }
15
16    100%{
17      transform: rotate(360deg);
18    }
19  }
```

Проверяем анимацию



Дополнительные свойства анимации

```
1  .square{
2    width: 100px;
3    height: 100px;
4    margin: 20px auto;
5    background-color: #D53BF7;
6    animation-name: spin;
7    animation-duration: 3s;
8    animation-iteration-count: infinite;
9    animation-direction: reverse;
10
11 }
12
13 @keyframes spin {
14   0%{
15     transform: rotate(0deg);
16   }
17
18   100%{
19     transform: rotate(360deg);
20   }
21 }
22
```

Дополнительные свойства анимации

```
1  .square{
2    width: 100px;
3    height: 100px;
4    margin: 20px auto;
5    background-color: #D53BF7;
6    animation-name: spin;
7    animation-duration: 3s;
8    animation-iteration-count: infinite;
9    animation-direction: reverse;
10 }
11 }
12 .square:hover{
13   animation-play-state: paused;
14 }
15 }
16 @keyframes spin {
17   0%{
18     transform: rotate(0deg);
19   }
20   35%{
21     background-color: #4AEAFD;
22   }
23   100%{
24     transform: rotate(360deg);
25   }
26 }
```

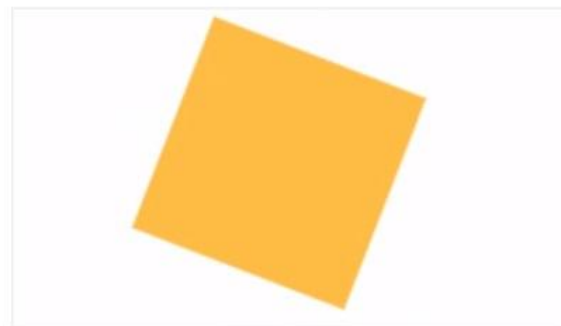
Дополнительные свойства анимации

| | | | | | | |
|----------------------|--------------|-------------------|--------------|--------------|--------------|---------------|
| <u>F</u> ile | <u>E</u> dit | <u>S</u> election | <u>F</u> ind | <u>V</u> iew | <u>G</u> oto | <u>T</u> ools |
| New File | | | | | Ctrl+N | |
| Open File... | | | | | Ctrl+O | |
| Open Folder... | | | | | | |
| Open Recent | | | | | | > |
| Reopen with Encoding | | | | | | > |
| New View into File | | | | | | |
| Save | | | | | Ctrl+S | |



Задание

Попробуйте сделать так, чтобы квадрат один цикл вращался по часовой, а затем против часовой и т.д. (воспользуйтесь свойством `animation-direction: alternate`)
Сделайте изменение цветов с желтого на красный.



Решение

```
1  .square{
2    width: 100px;
3    height: 100px;
4    margin: 20px auto;
5    background-color: #EB0A0A;
6    animation-name: spin;
7    animation-duration: 2s;
8    animation-iteration-count: infinite;
9    animation-direction: alternate;
10 }
11 @keyframes spin {
12   0%{
13     transform: rotate(0deg);
14   }
15   45%{
16     background-color: #FFF65C;
17   }
18   100%{
19     transform: rotate(360deg);
20   }
21 }
```

Создаем класс

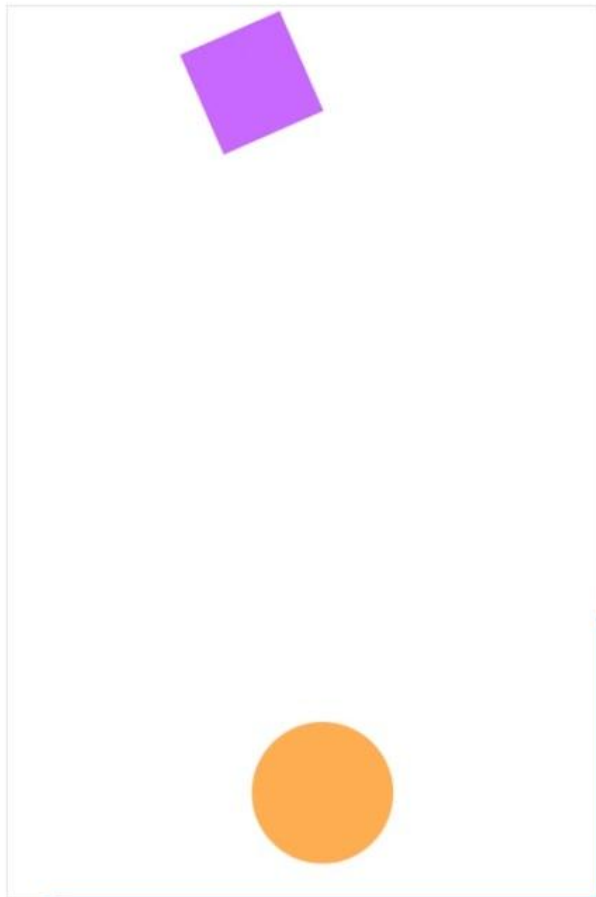
```
test1.html  stylesquare.css
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset = "UTF-8">
5      <title>AnimateBox</title>
6      <link rel = "stylesheet" href="stylesquare.css">
7  </head>
8  <body>
9  <div class="square"></div>
10 <div class="circle"></div>
11 </body>
12 </html>
13
```



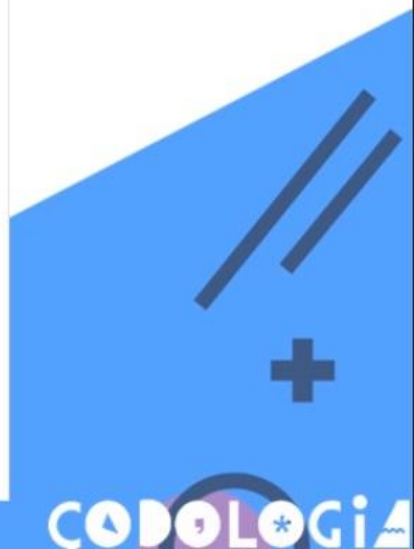
Работаем с CSS

```
test1.html  stylesquare.css
1  .square{
2    width: 100px;
3    height: 100px;
4    margin: 20px auto;
5    background-color: #D53BF7;
6    animation-name: spin;
7    animation-duration: 3s;
8    animation-iteration-count: infinite;
9    animation-direction: reverse;
10 }
11
12
13 .circle{
14   position: absolute;
15   left: 50%;
16   top: 70%;
17   width: 130px;
18   height: 130px;
19   border-radius: 75px;
20   background-color: #F7AC55;
21 }
22
```

Проверяем объект



| | | | | | | |
|----------------------|--------------|-------------------|--------------|--------------|---------------|---------------|
| File | E dit | S election | F ind | V iew | G oto | T ools |
| New File | | | | | Ctrl+N | |
| Open File... | | | | | Ctrl+O | |
| Open Folder... | | | | | | |
| Open Recent | | | | | | > |
| Reopen with Encoding | | | | | | > |
| New View into File | | | | | | |
| Save | | | | | Ctrl+S | |



Задаем движение круга

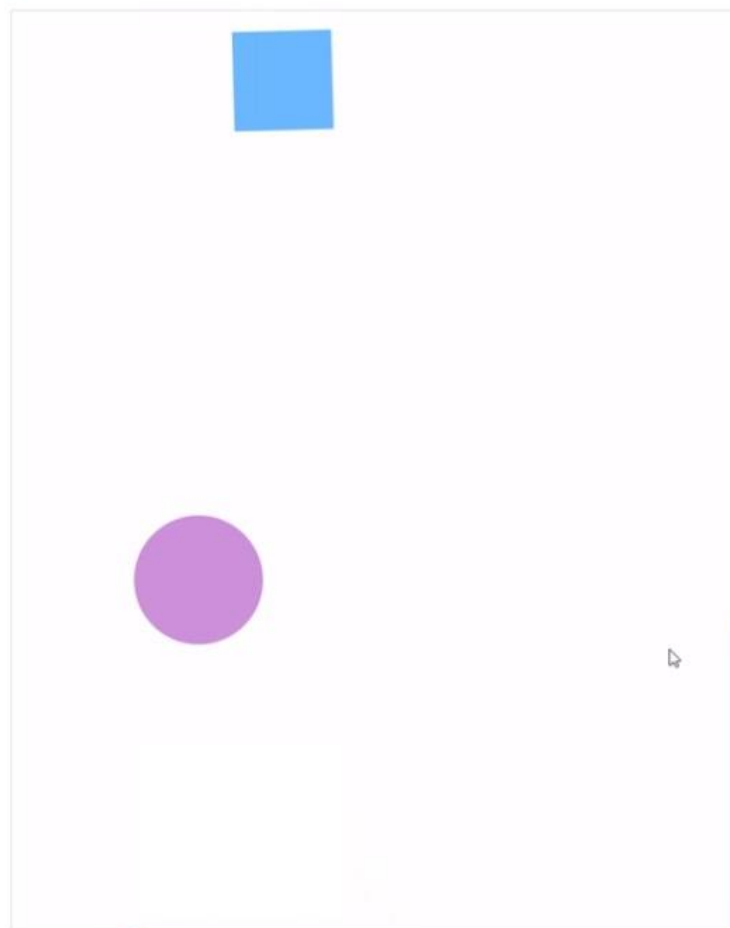
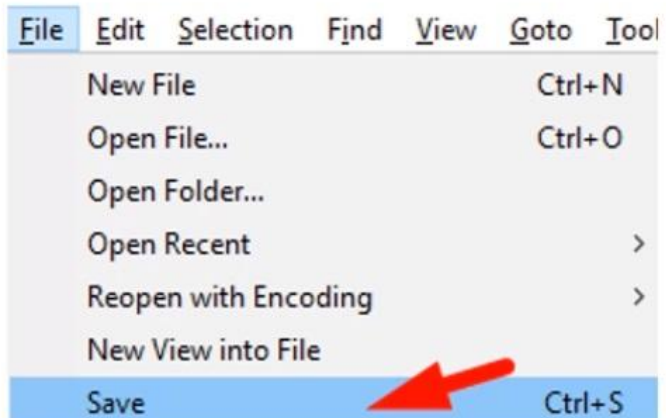
```
13 .circle{
14   position: absolute;
15   left: 50%;
16   top: 70%;
17   width: 130px;
18   height: 130px;
19   border-radius: 75px;
20   background-color: #F7AC55;
21   animation-name: path;
22   animation-duration: 2s;
23
24 }
25
26 @keyframes path {
27   0%, 100% {
28     transform: translate(-150px, -150px);
29   }
30   25% {
31     transform: translate(150px, -150px);
32   }
33   }
34   50% {
35     transform: translate(150px, 150px);
36   }
37   }
38   75% {
39     transform: translate(-150px, 150px);
40   }
41 }
```

Меняем цвета круга

```
12 .circle{
13   position: absolute;
14   left: 50%;
15   top: 70%;
16   width: 130px;
17   height: 130px;
18   border-radius: 75px;
19   background-color: #F7AC55;
20   animation-name: path;
21   animation-duration: 2s;
22   animation-iteration-count: infinite;
23 }
24
25 @keyframes path {
26   0%, 100% {
27     transform: translate(-150px, -150px);
28   }
29   25% {
30     transform: translate(150px, -150px);
31   }
32   50% {
33     transform: translate(150px, 150px);
34     background-color: #55F7A4;
35   }
36   75% {
37     transform: translate(-150px, 150px);
38     background-color: #F755EC;
39   }
}
```

Проверяем анимацию

27



4

Создаем новый класс

28

```
test1.html  stylesquare.css x
1  <!DOCTYPE html>
2  <html>
3  <head>
4      <meta charset = "UTF-8">
5      <title>AnimateBox</title>
6      <link rel = "stylesheet" href="stylesquare.css">
7  </head>
8  <body>
9  <div class="square"></div>
10 <div class="circle"></div>
11
12 <div class="square2"></div>
13 </body>
14 </html>
```

Работаем с CSS

29

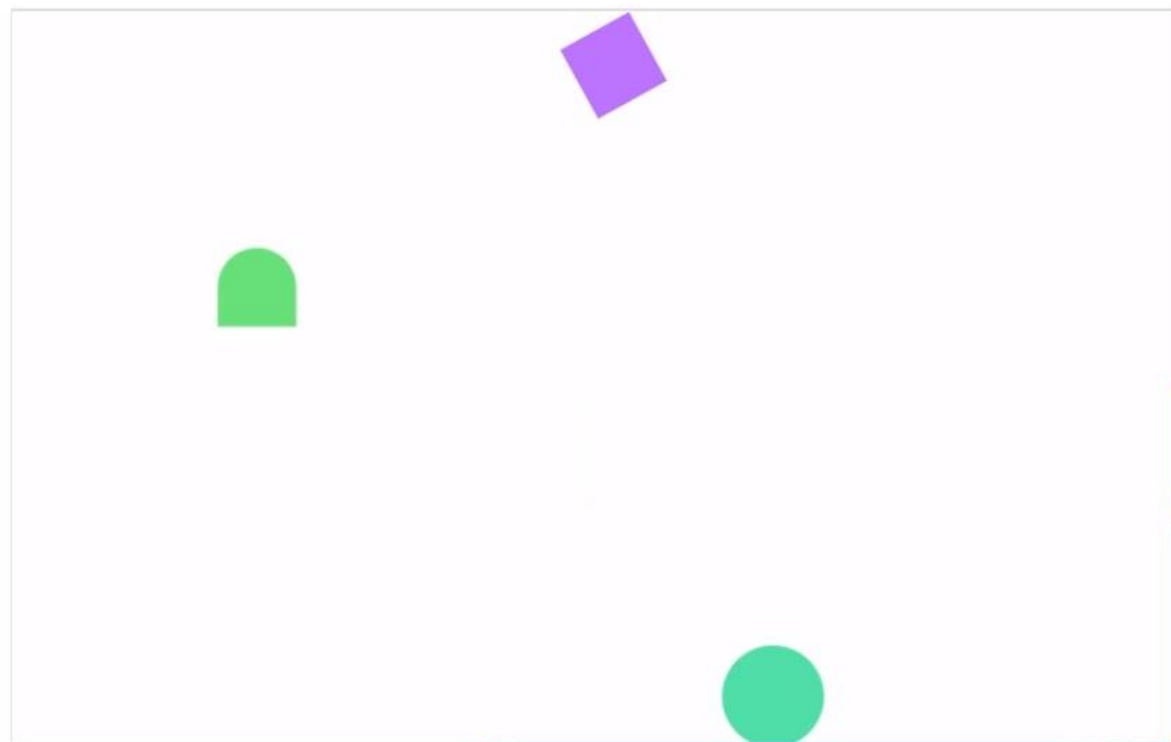
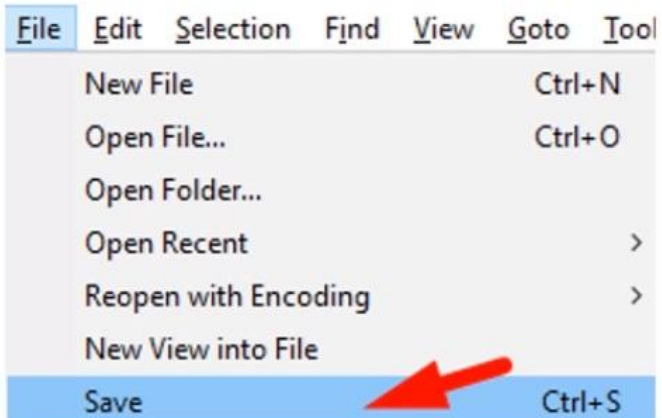
```
test1.html x stylesquare.css
11 .square2{
12     position: absolute;
13     width: 100px;
14     height: 100px;
15     margin: 20px auto;
16     left: 20%;
17     top: 30%;
18     background-color: #71F47D;
19 }
```

Создаем анимацию

```
11 .square2{
12   position: absolute;
13   width: 100px;
14   height: 100px;
15   margin: 20px auto;
16   left: 20%;
17   top:30%;
18   background-color: #71F47D;
19   animation-name: transform;
20   animation-duration: 2s;
21   animation-iteration-count: infinite;
22 }
23 @keyframes transform {
24   0%{
25     border-radius: 0 0 0 0;
26   }
27 }
28 25%{
29   border-radius: 50% 0 0 0;
30 }
31 }
32 50%{
33   border-radius: 50% 50% 0 0;
34 }
35 75%{
36   border-radius: 50% 50% 50% 0;
37 }
38 100%{
39   border-radius: 50% 50% 50% 50%;
40 }
41 }
```

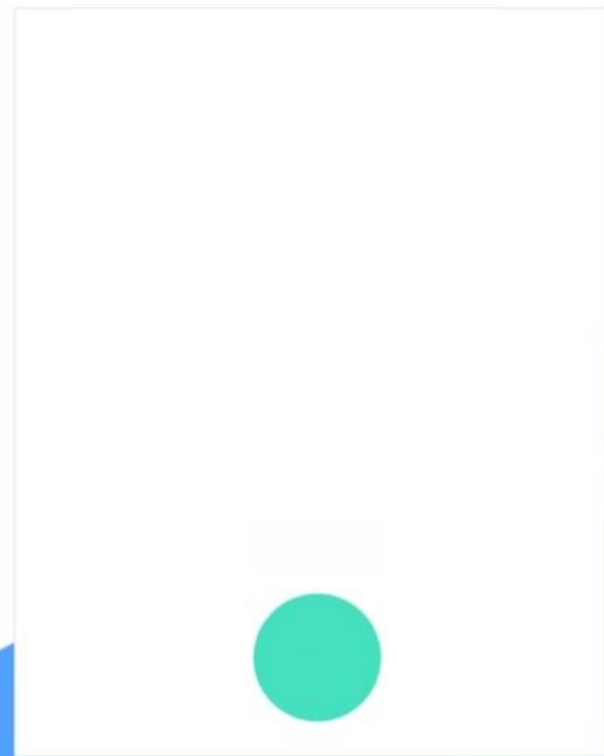
Проверяем анимацию

31



Домашнее задание

Сделайте новые файлы, создайте новый круг меньшего радиуса. Попробуйте сделать анимацию прыгающего мяча (воспользуйтесь свойством `transform: translateY`). Добавьте изменение цвета. Анимация бесконечна.





Все молодцы!