

Недокументированные приемы CSS

Содержание доклада

1. Фоны и рамки
2. Фигуры
3. Визуальные эффекты

Фоны и рамки

Какого цвета будет *border* у блока с текстом «Hello World» ?

```
div {  
    color: #38a;  
    border: 2px solid;  
}
```



Свойство `currentColor`



`color: red;`

`background-color: #333;
box-shadow: 0 0 10px 5px;
text-shadow: 0 0 5px;`

`color: red;`

`background-color: #333;
box-shadow: 0 0 10px 5px currentColor;
text-shadow: 0 0 5px currentColor;`

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser	Chrome for Android
			49			9.3		4.4	
11	14	51	56	10	43	10.2	all	53	56
	15		52	57	10.1	44			
		53	58	TP		45			
		54	59						

Свойство **currentColor**



Hello world

color: **yellowgreen**;



Hello world

color: **yellow**



Hello world

color: **lightpink**;



Hello world

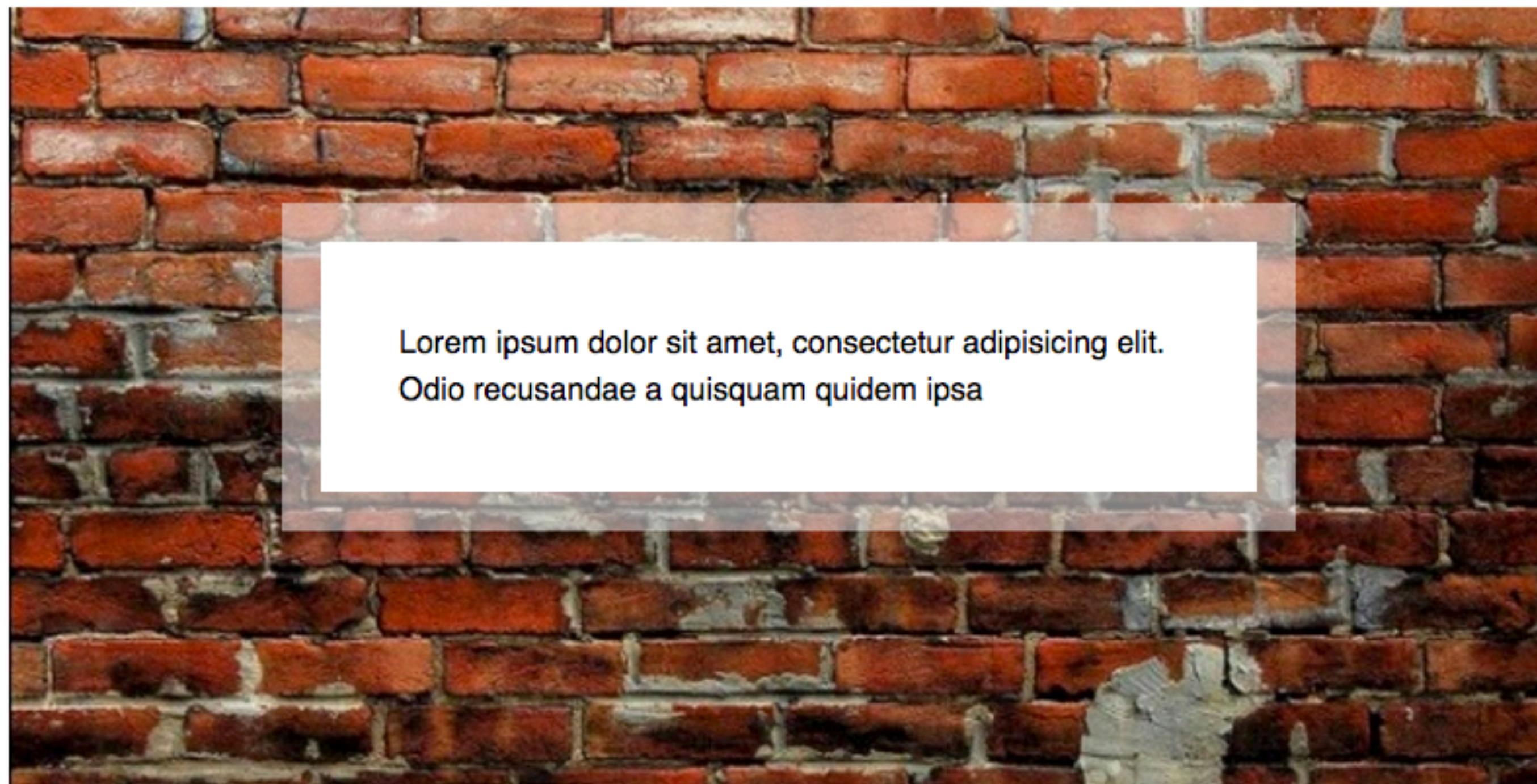
color: **red**;



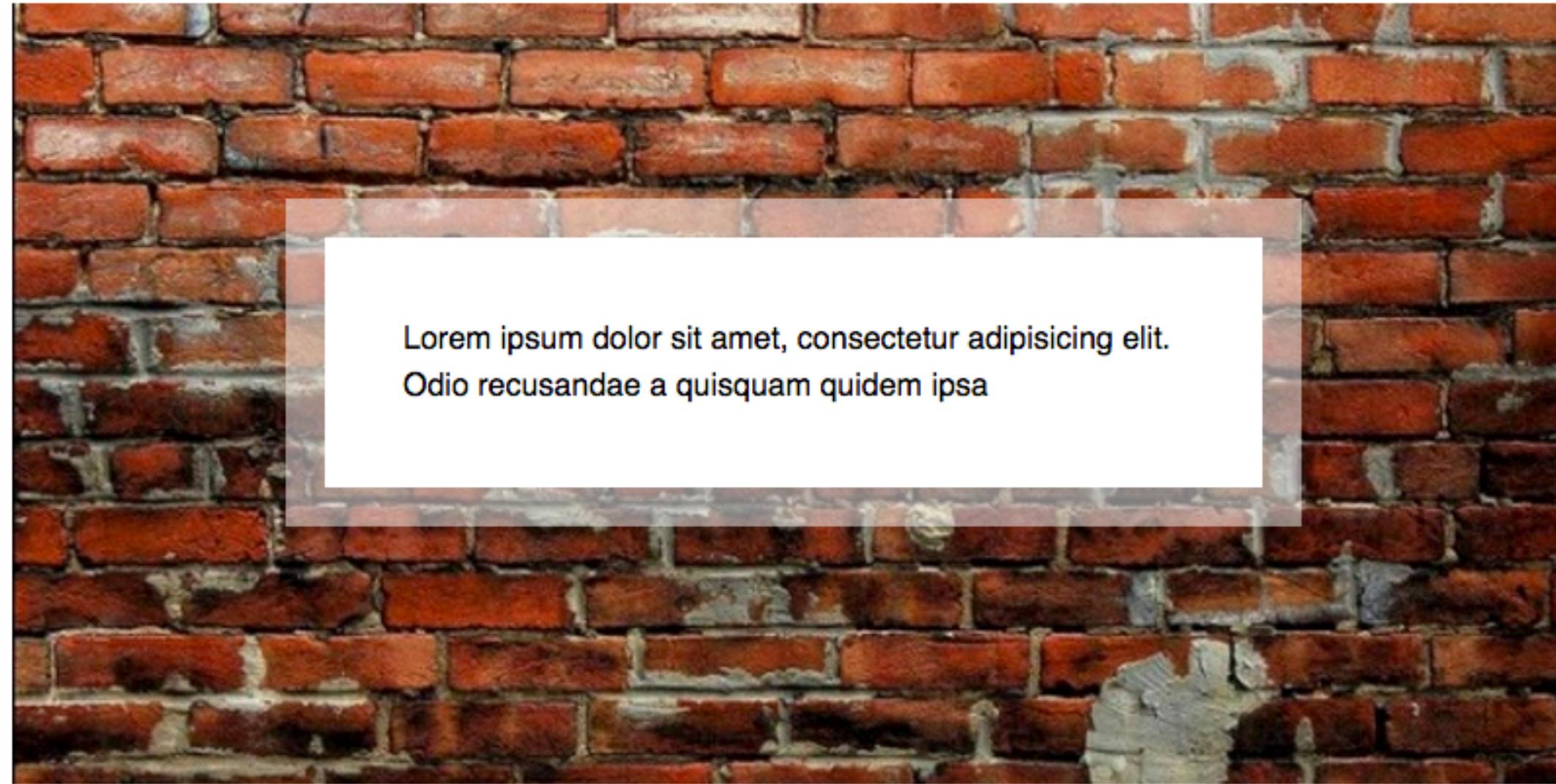
Hello world

color: **blue**;

Прозрачные рамки



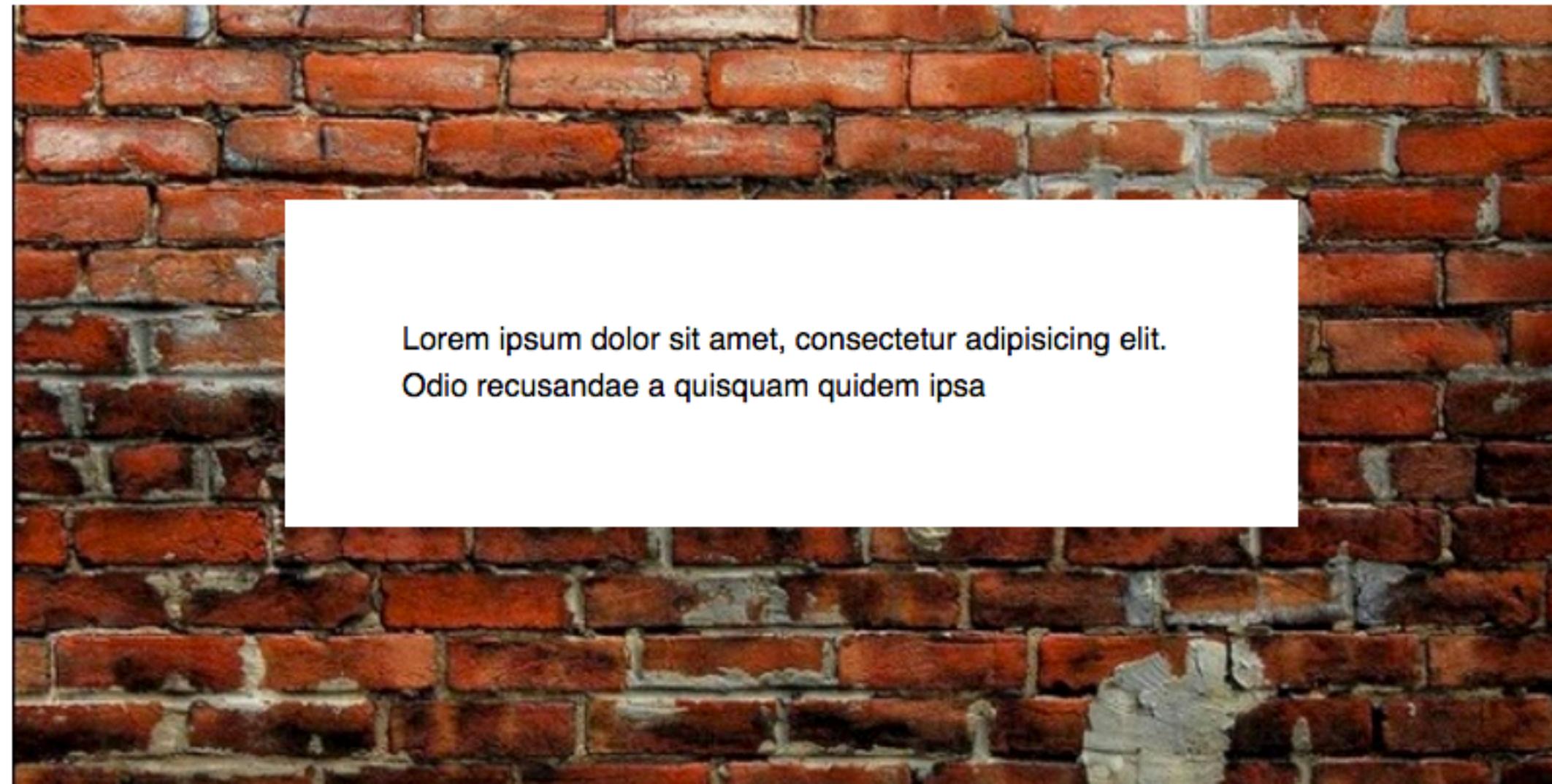
Прозрачные рамки



```
<div class="parent">  
  <div class="child">Lorem ipsum dolor sit amet, consectetur adipisicing elit. Odio  
    recusandae a quisquam quidem ipsa</div>  
</div>
```

```
.parent {  
  background-color: rgba(255, 255, 255, 0.5);  
  padding: 10px;  
  ...  
}  
.child {  
  background-color: white;  
  ...  
}
```

Прозрачные рамки



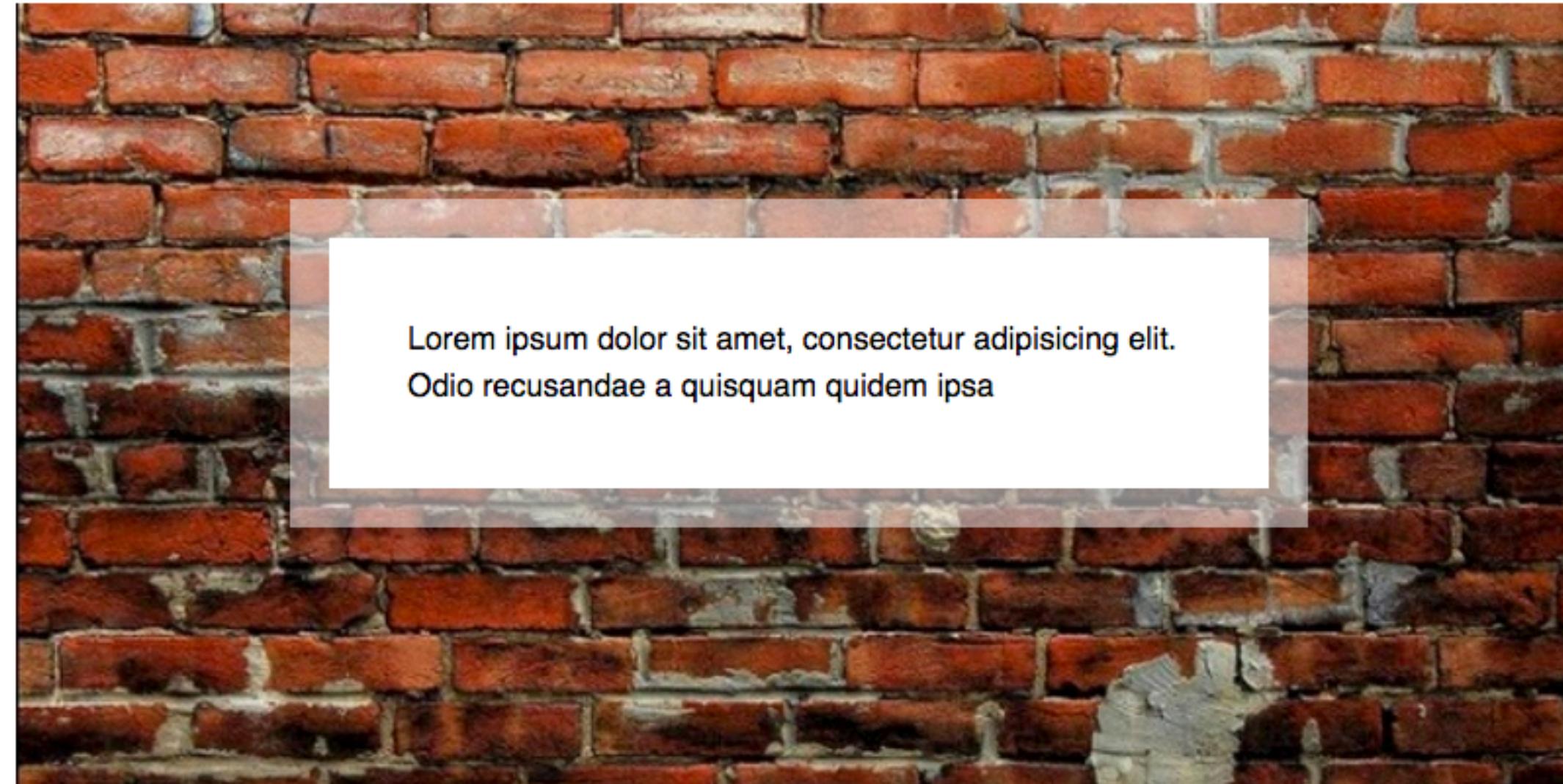
<div>

 Lorem ipsum dolor sit amet, consectetur adipisicing
 elit. Odio recusandae a quisquam quidem ipsa

</div>

```
div {  
  border: 10px solid hsla(0,0%,100%,.5);  
  background: white;  
}
```

Прозрачные рамки



<div>

 Lorem ipsum dolor sit amet, consectetur adipisicing
 elit. Odio recusandae a quisquam quidem ipsa

</div>

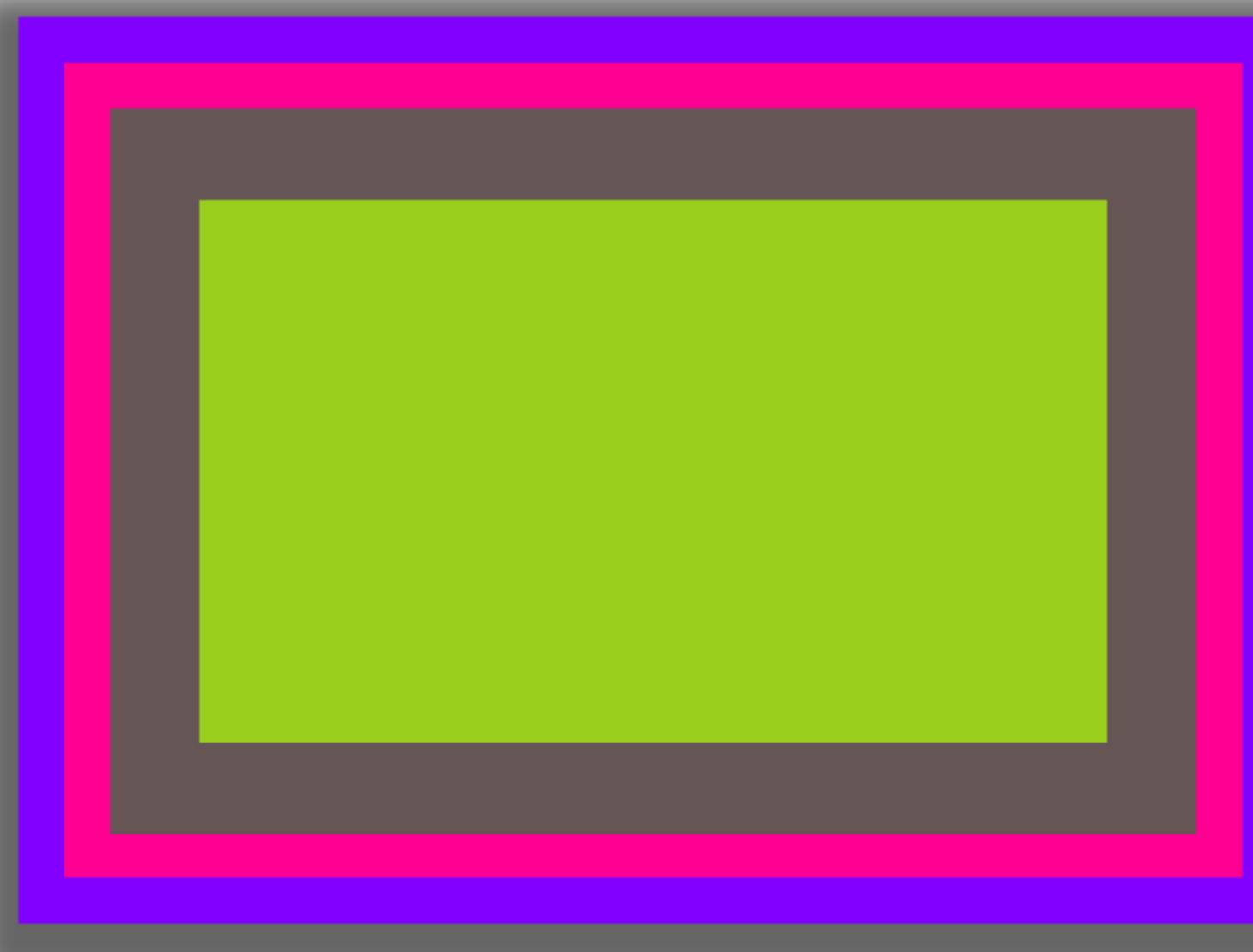
```
div {  
  border: 10px solid hsla(0,0%,100%,.5);  
  background: white;  
  background-clip: padding-box;  
}
```

Несколько рамок



```
background: yellowgreen;  
border: 10px solid #655;  
outline: deeppink solid 5px;
```

Несколько рамок



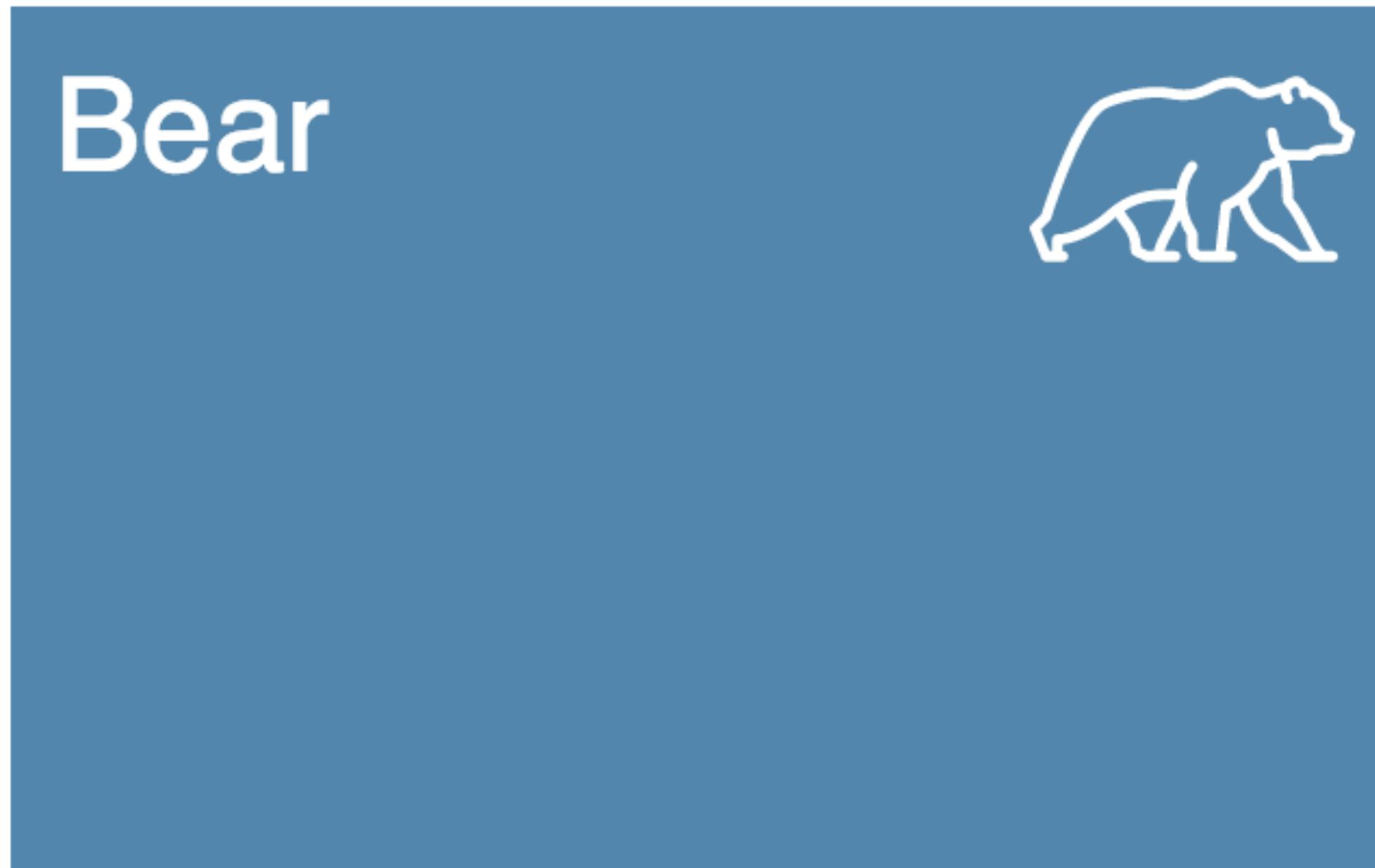
```
background: yellowgreen;  
box-shadow: 0 0 0 10px #655,  
            0 0 0 15px deeppink,  
            0 0 0 20px #8014ff,  
            0 2px 5px 25px rgba(0,0,0,.6);
```

Гибкое позиционирование фона



background: url(bear.svg) no-repeat #58a;
background-position: right 10px bottom 20px;

Гибкое позиционирование фона



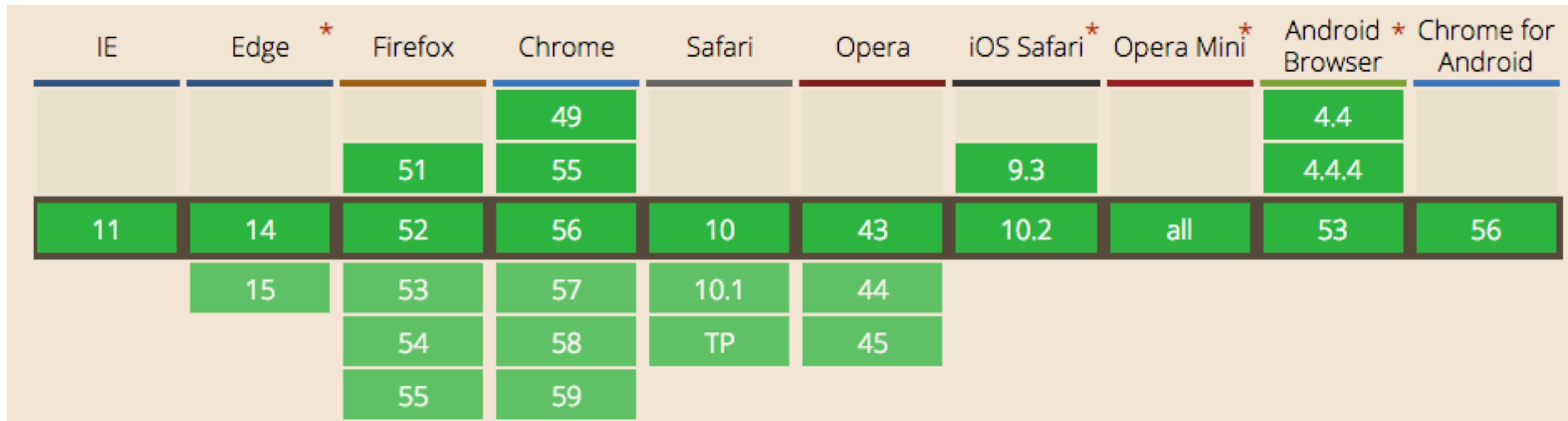
background: url(bear.svg) no-repeat #58a;
background-position: right 10px top 20px;

Гибкое позиционирование фона и несколько изображений



background: url(bear.svg) no-repeat **bottom** 10px **right** 5px,
url(boar.svg) no-repeat **bottom** 10px **left** 5px,
url(wolf.svg) no-repeat **top** 10px **right** 5px;
background-size: 4em 4em;
background-color: #58a;

Гибкое позиционирование фона и несколько изображений

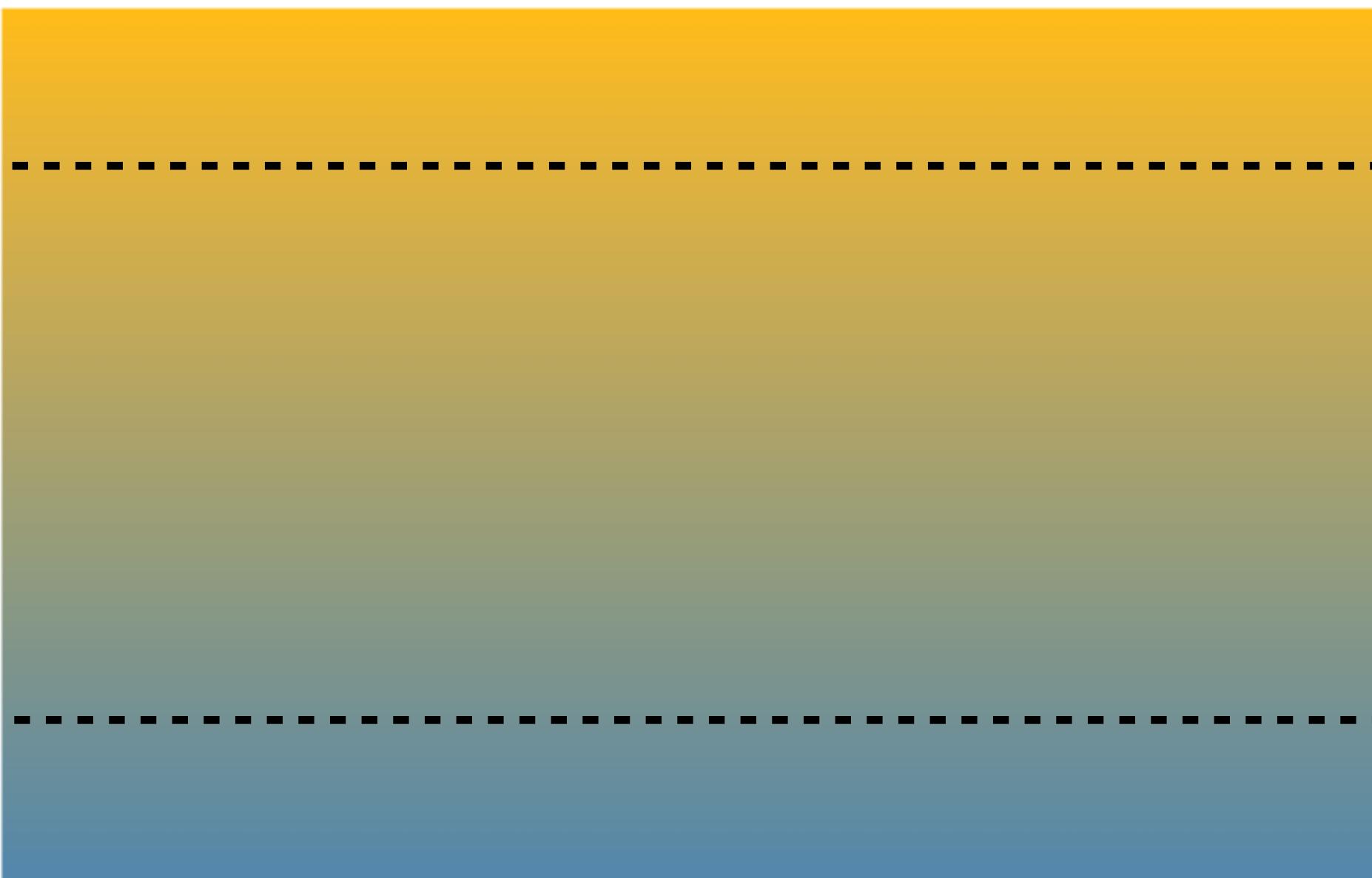


Фон в полоску





background: linear-gradient(#fb3, #58a);



background: linear-gradient(#fb3 20%, #58a 80%);



background: linear-gradient(#fb3 50%, #58a 50%);



background: linear-gradient(#fb3 50%, #58a 50%);
background-size: 100% 30px;



background: linear-gradient(**#fb3** 30%, **#58a** 0);
background-size: 100% 30px;



background: linear-gradient(#fb3 33.3%, #58a 0, #58a 66.6%, yellowgreen 0);
background-size: 100% 45px;

Фон в полоску (горизонтальные и вертикальные полосы)

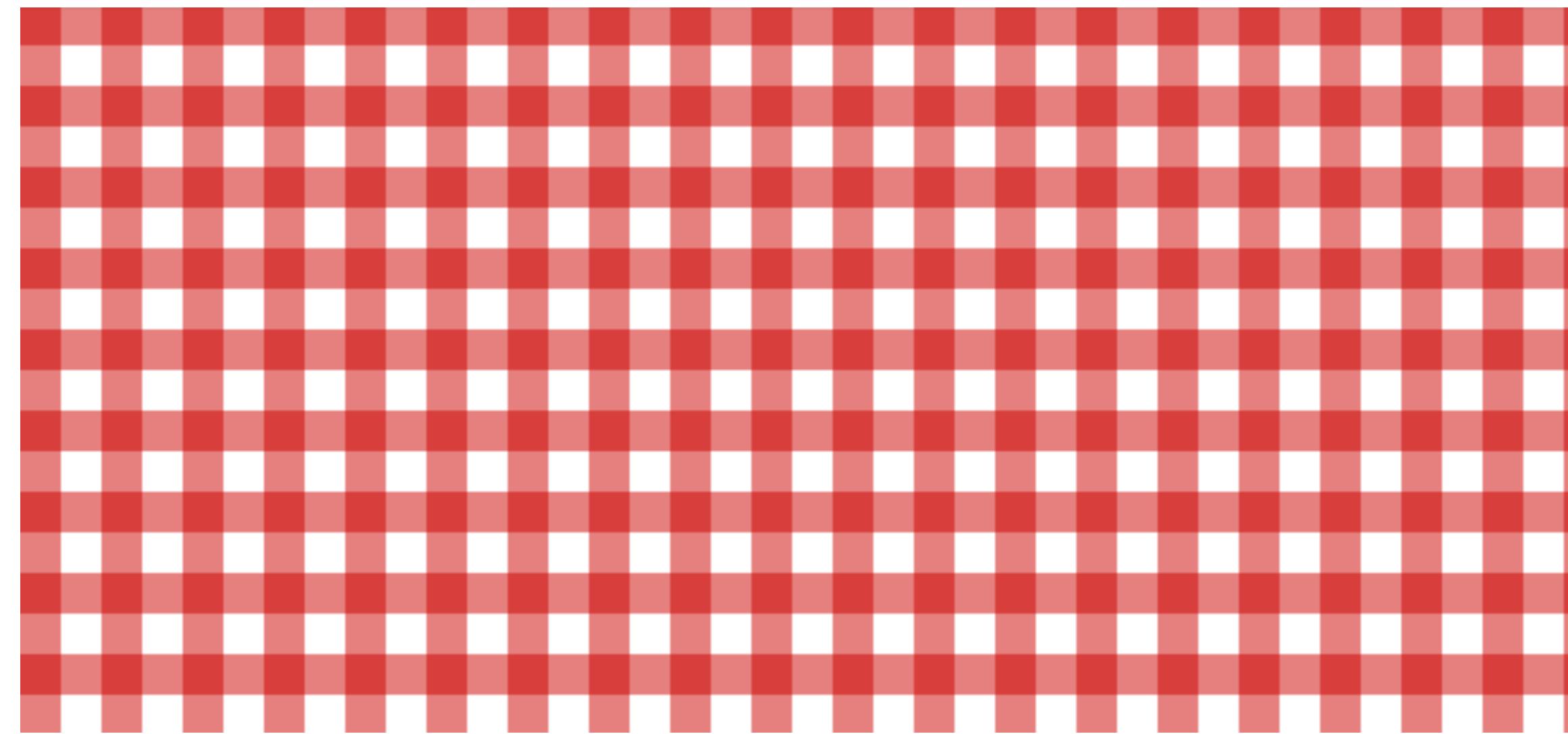


background: linear-gradient(#fb3 50%, #58a 0);
background-size: 100% 30px;



background: linear-gradient(to right ,#fb3 50%, #58a 0);
background-size: 30px 100%;

Вертикальные и горизонтальные полосы вместе



```
.main {  
background: white;  
background-image: linear-gradient(90deg, rgba(200, 0, 0, .5) 50%, transparent 0),  
                linear-gradient(rgba(200, 0, 0, .5) 50%, transparent 0);  
background-size: 30px 30px;  
}
```

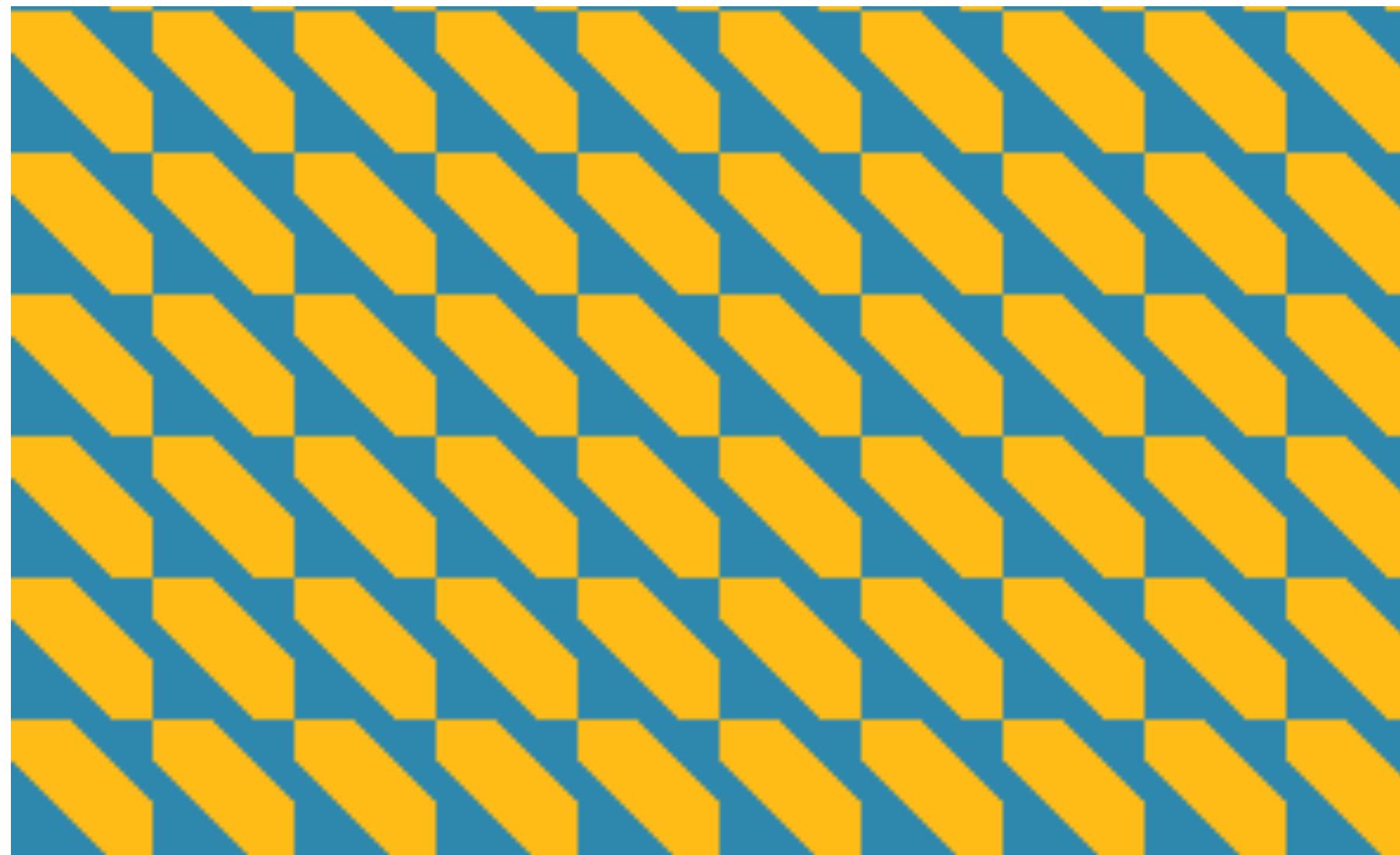
Фон в полоску (диагональные полосы)



```
background: repeating-linear-gradient(45deg,  
#fb3, #fb3 15px,  
#58a 0, #58a 30px);  
  
background-size: 42px 42px;
```



```
background: repeating-linear-gradient(45deg,  
#fb3, #fb3 15px,  
#58a 0, #58a 30px);  
background-size: 42px 42px;
```

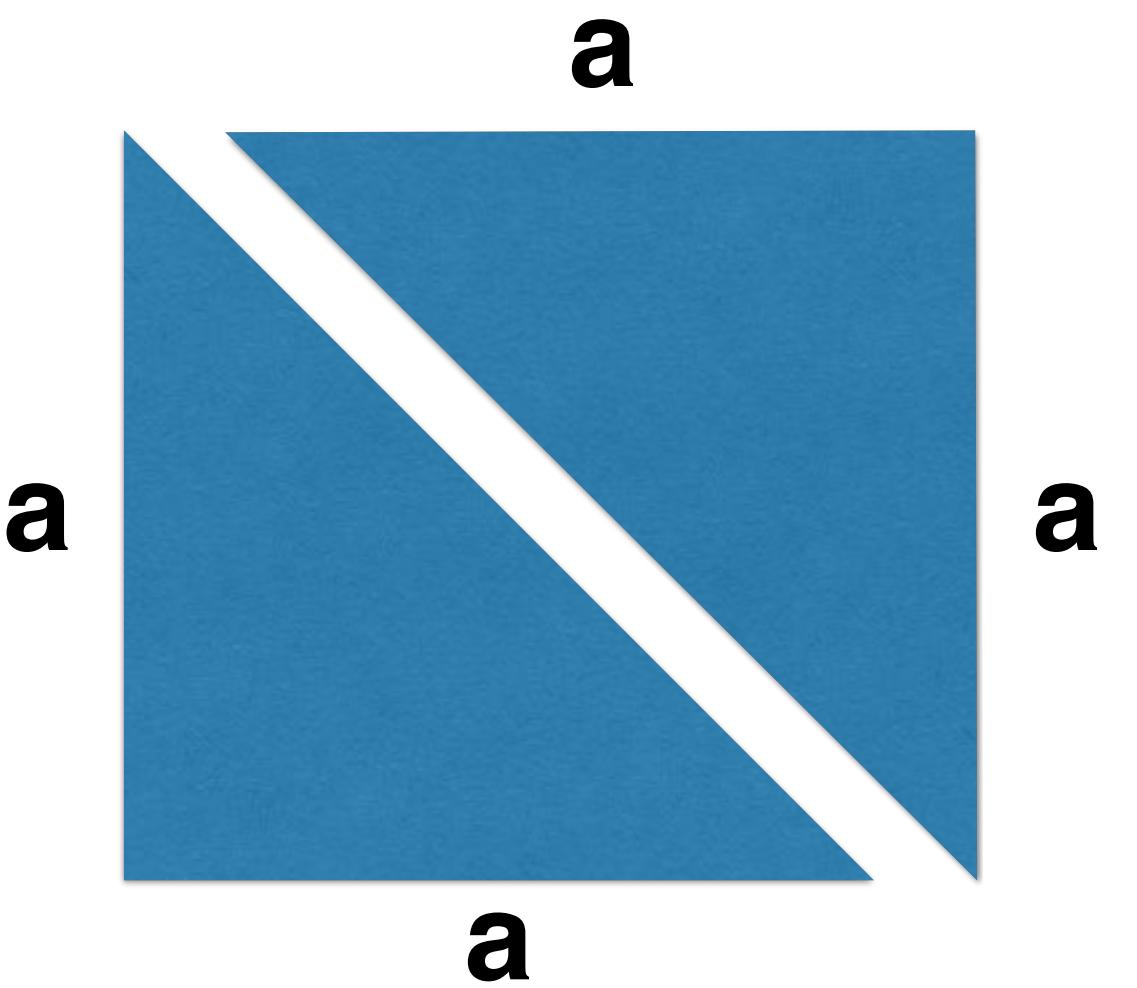


```
background: repeating-linear-gradient(45deg,  
                                    #fb3, #fb3 15px,  
                                    #58a 0, #58a 30px);  
background-size: 30px 30px;
```

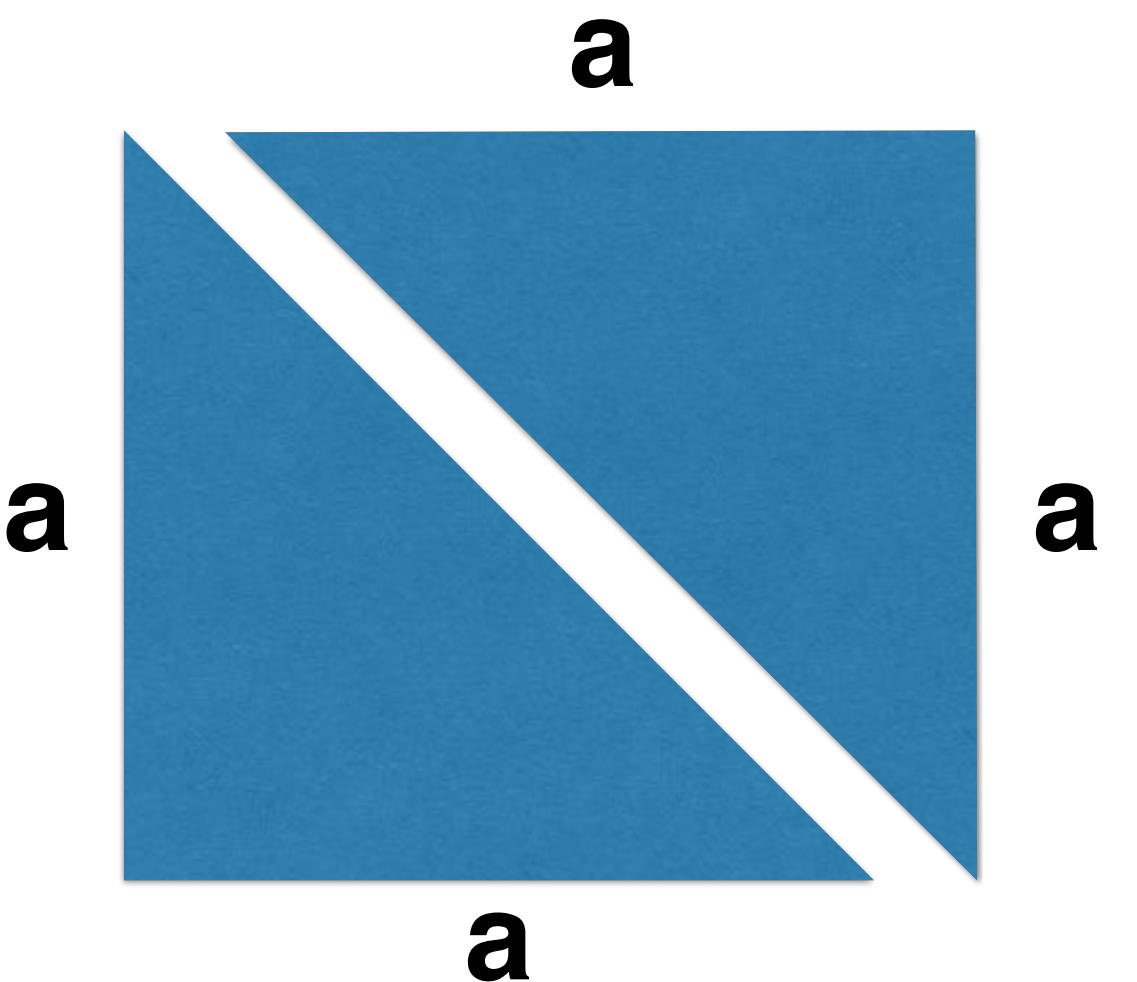
Фон в полоску (диагональные полосы)



```
background: repeating-linear-gradient(45deg,  
#fb3, #fb3 15px,  
#58a 0, #58a 30px);  
background-size: 42px 42px;
```



$$a^2 + b^2 = c^2$$



$$a^2 + b^2 = c^2$$

$$a^2 + a^2 = c^2$$

$$2 * a^2 = c^2$$

$$\sqrt{2} * a = c$$

$$\sqrt{2} * a = c$$

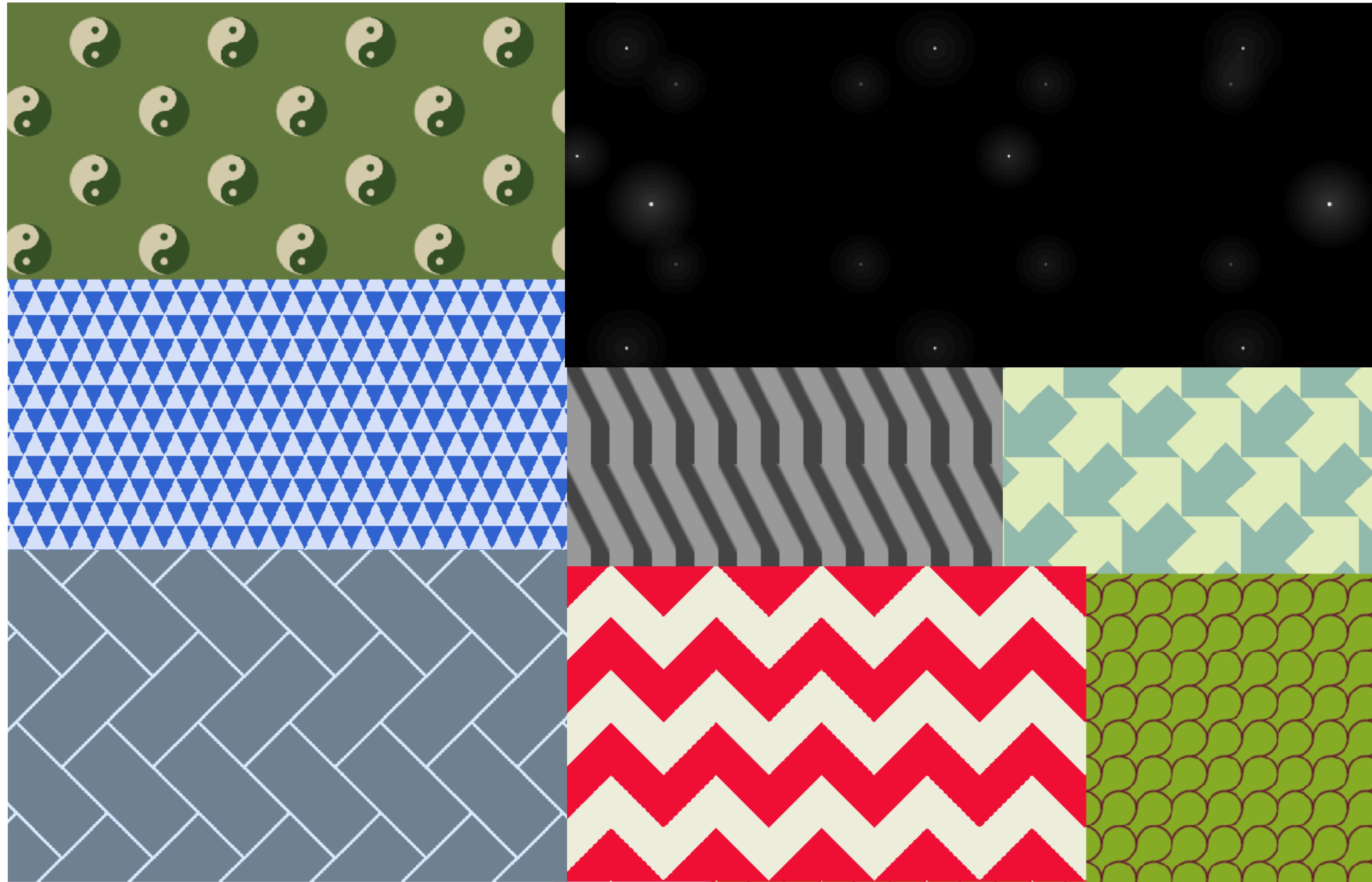
$$a = 30\text{px}$$

$$\sqrt{2} * 30 = 42,426406$$

Фон в полоску (диагональные полосы)



```
background: repeating-linear-gradient(45deg,  
        #fb3, #fb3 15px,  
        #58a 0, #58a 30px);  
background-size: 42px 42px;
```



Фигуры

Параллелограммы

Click

Click

Параллелограммы



Click

```
.button {  
    position: relative;  
    background: transparent;  
}  
  
.button::before {  
    content: '';  
    position: absolute;  
    top: 0; right: 0; bottom: 0; left: 0;  
    z-index: -1;  
    background: #58a;  
    transform: skewX(-45deg);  
}
```



Click

Трапеции

Transform

```
div::before{  
    background-color: #58a;  
    content: '';  
    position: absolute;  
    top: 0;  
    bottom: 0;  
    left: 0;  
    right: 0;  
    z-index: -1;  
    transform: perspective(.4em) rotateX(5deg)  
}  
  
div {  
    position: relative;  
    color: white;  
}
```

Transform

Изображения в форме ромба



Изображения в форме ромба

HTML:

```
<div class="diamond">  
      
</div>
```



```
.diamond {  
    transform: rotate(45deg);  
    overflow: hidden;  
}
```

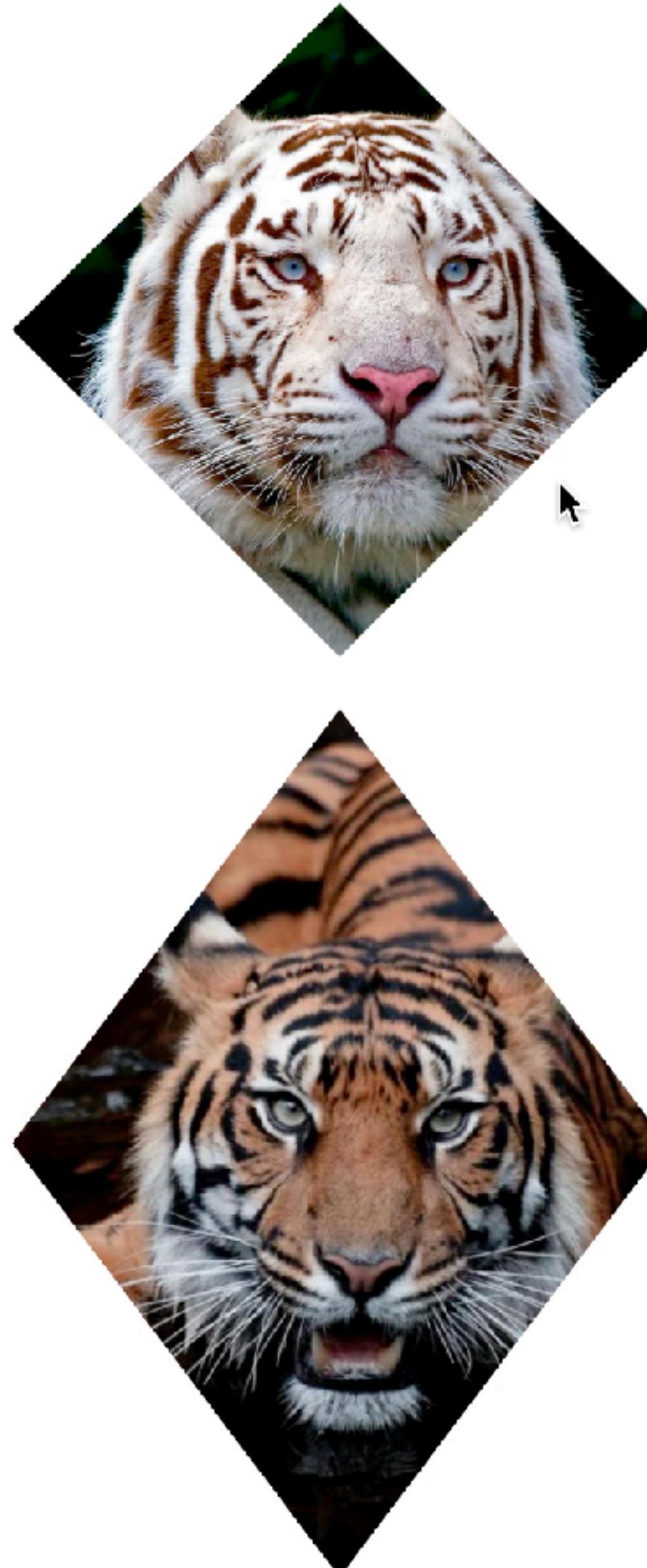
```
.diamond img {  
    transform: rotate(-45deg)  
}
```

Изображения в форме ромба



```
.diamond {  
    width: 250px;  
    height: 250px;  
    transform: rotate(45deg);  
    overflow: hidden;  
    margin: 100px;  
}  
.diamond img {  
    max-width: 100%;  
    transform: rotate(-45deg) scale(1.42);  
    z-index: -1;  
    position: relative;  
}
```

Изображения в форме ромба с помощью SVG масок



```
  

```

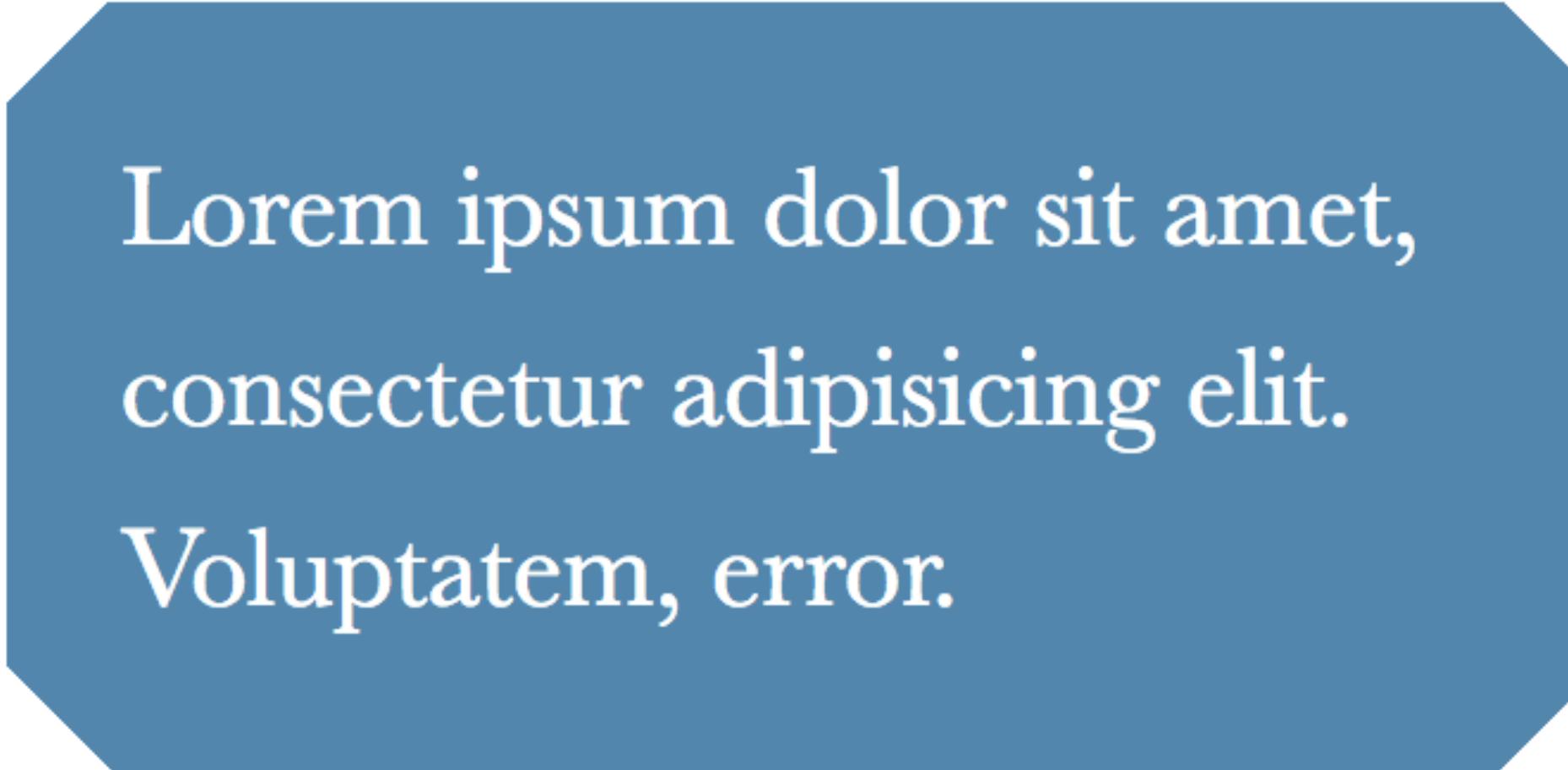
```
img {  
    max-width: 250px;  
    margin: 20px;  
    clip-path: polygon(50% 0, 100% 50%, 50% 100%, 0 50%);  
    transition: all 1s;  
}  
  
img:hover {  
    clip-path: polygon(0 0, 100% 0, 100% 100%, 0 100%);  
}
```

Изображения в форме ромба с помощью SVG масок



IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser	Chrome for Android
			2 49			2 9.3		2 4.4	
			2 55			2 10.2		2 4.4.4	
		1 3 51	2 56	2 10					
11	14	1 3 52	2 57	2 10.1	2 44	2 10.3	all	2 56	2 57
	15	53	2 58	2 TP	2 45				
		54	2 59		2 46				
		55	2 60						

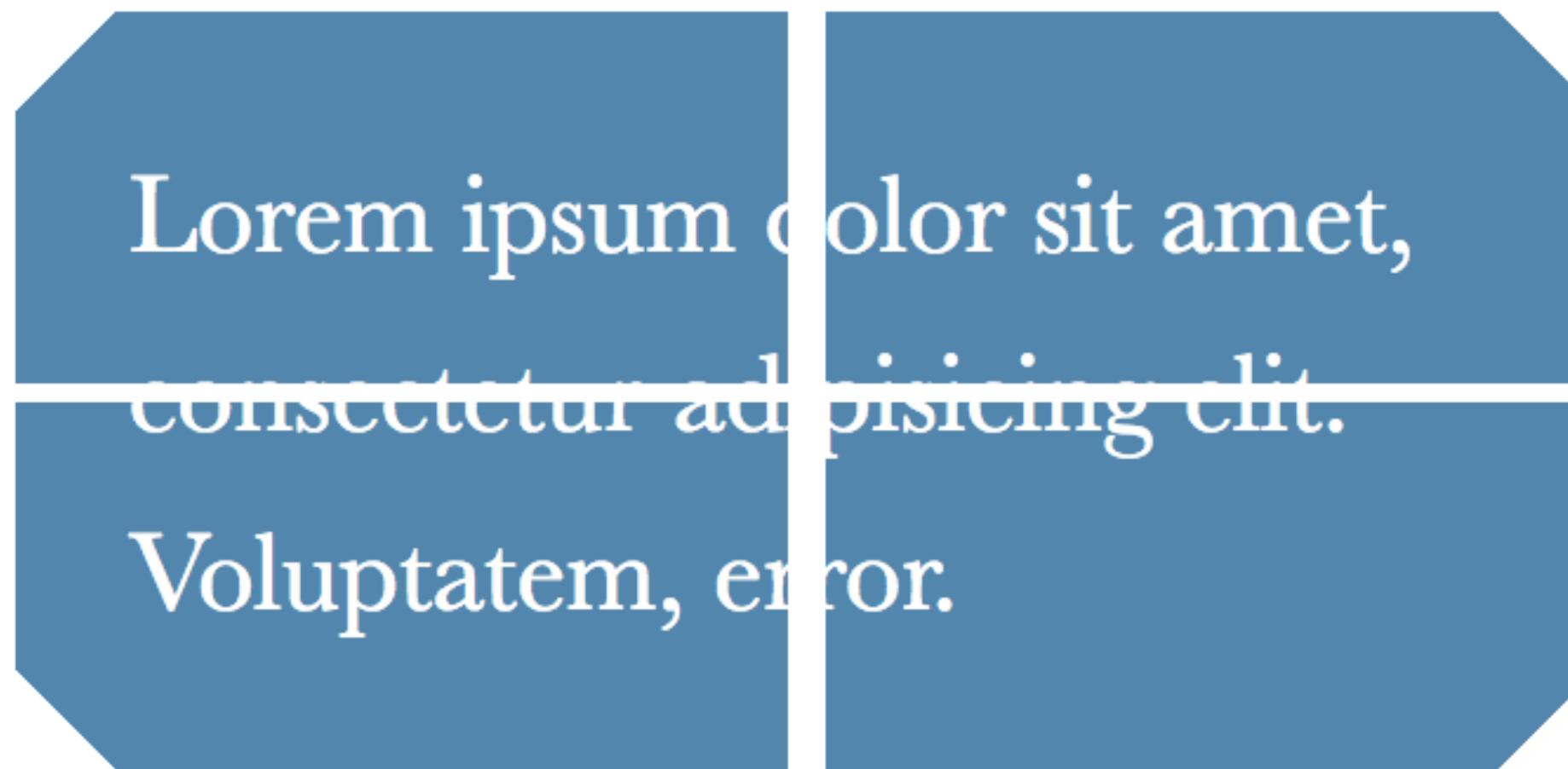
Срезанные углы



Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
Voluptatem, error.

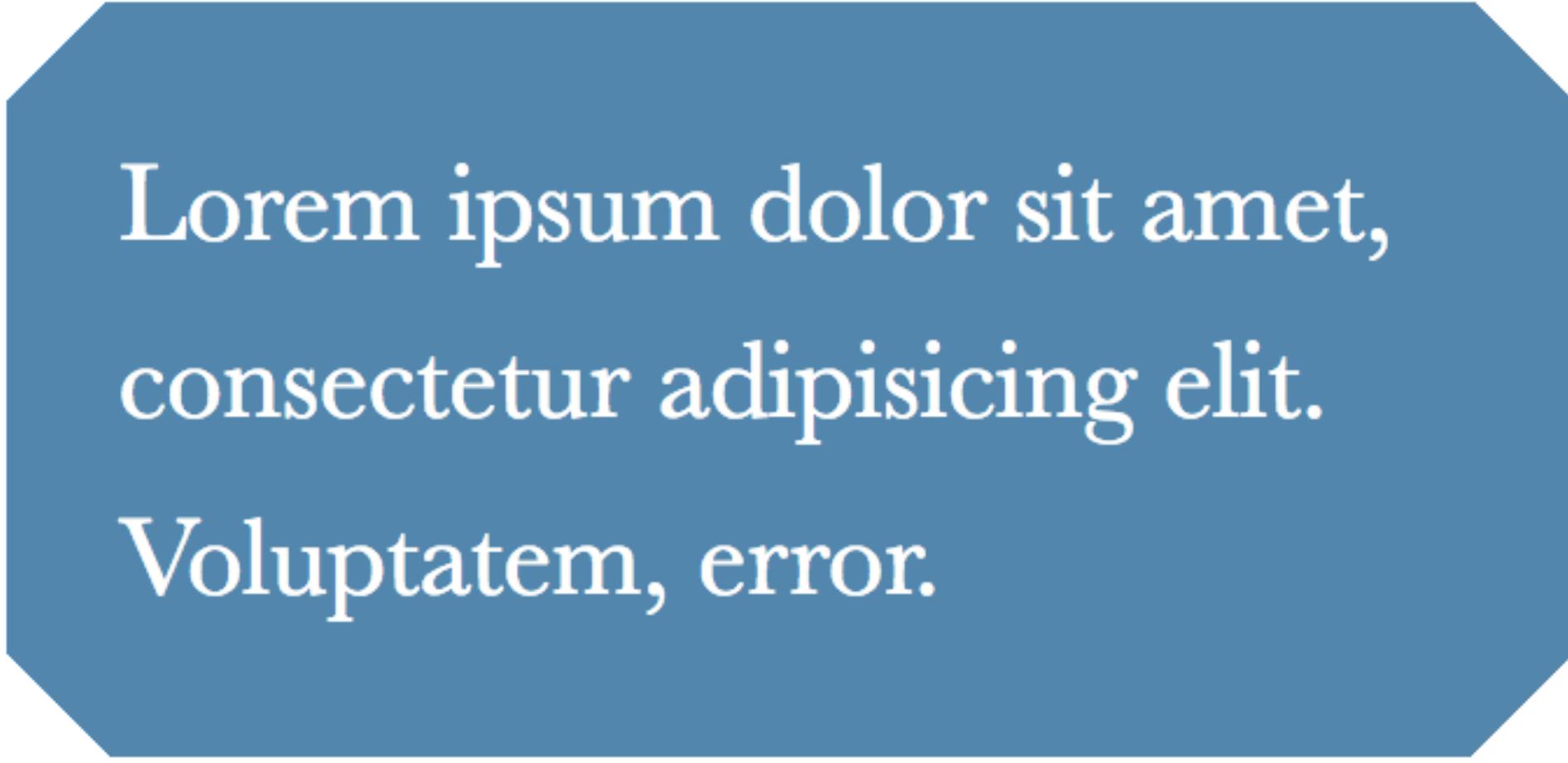
```
div {  
    background: linear-gradient(135deg, transparent 15px, #58a 0) top left,  
               linear-gradient(-135deg, transparent 15px, #58a 0) top right,  
               linear-gradient(-45deg, transparent 15px, #58a 0) bottom right,  
               linear-gradient(45deg, transparent 15px, #58a 0) bottom left;  
    background-size: 50% 50%;  
    background-repeat: no-repeat;  
}
```

Срезанные углы



```
div {  
    background: linear-gradient(135deg, transparent 15px, #58a 0) top left,  
               linear-gradient(-135deg, transparent 15px, #58a 0) top right,  
               linear-gradient(-45deg, transparent 15px, #58a 0) bottom right,  
               linear-gradient(45deg, transparent 15px, #58a 0) bottom left;  
    background-size: 49% 49%;  
    background-repeat: no-repeat;  
}
```

Срезанные углы



Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
Voluptatem, error.

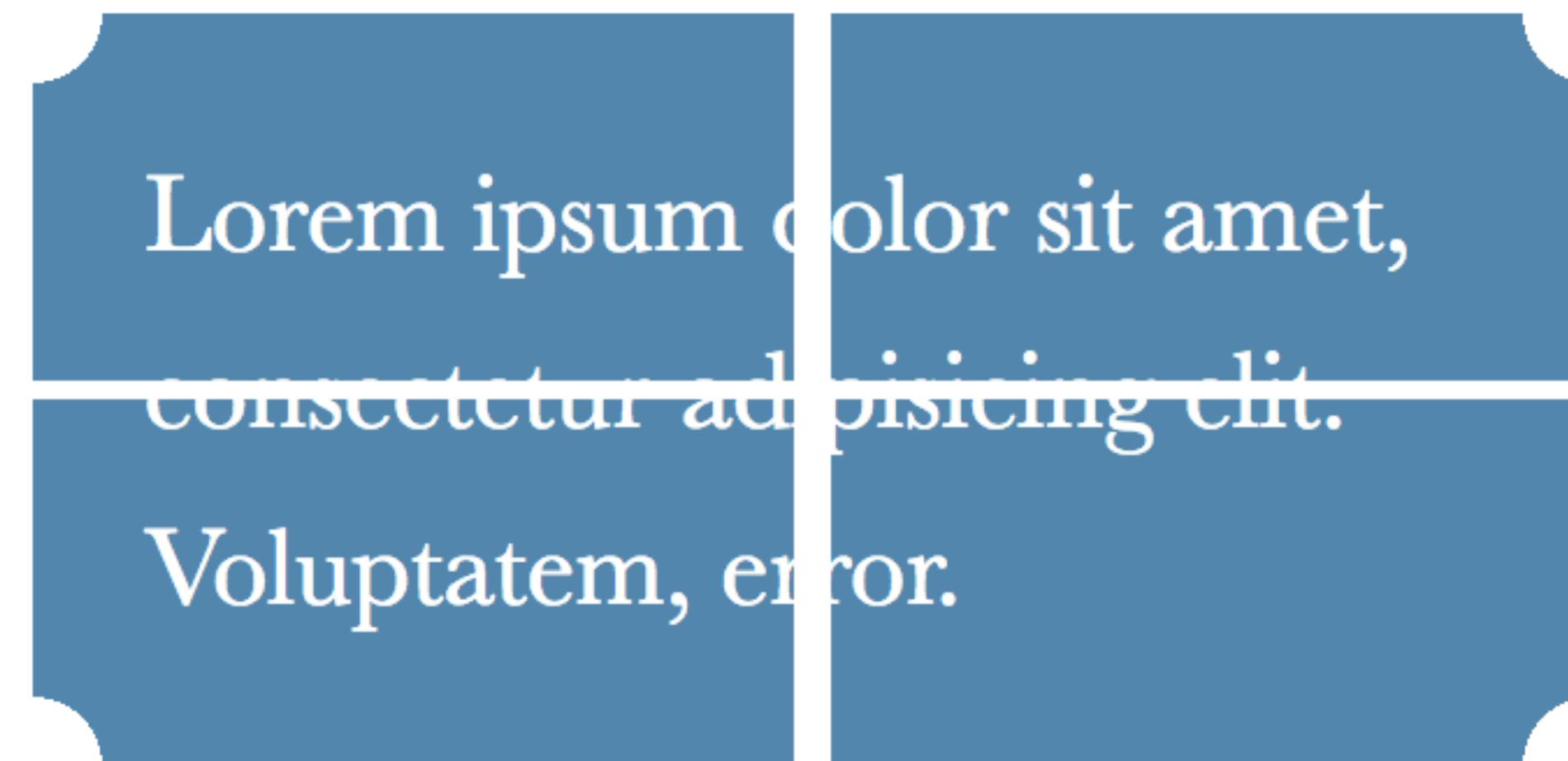
```
div {  
    background: linear-gradient(135deg, transparent 15px, #58a 0) top left,  
               linear-gradient(-135deg, transparent 15px, #58a 0) top right,  
               linear-gradient(-45deg, transparent 15px, #58a 0) bottom right,  
               linear-gradient(45deg, transparent 15px, #58a 0) bottom left;  
    background-size: 50% 50%;  
    background-repeat: no-repeat;  
}
```

Срезанные углы

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
Voluptatem, error.

```
div {  
    background: radial-gradient(circle at top left, transparent 15px, #58a 0) top left,  
               radial-gradient(circle at top right, transparent 15px, #58a 0) top right,  
               radial-gradient(circle at bottom right, transparent 15px, #58a 0) bottom right,  
               radial-gradient(circle at bottom left, transparent 15px, #58a 0) bottom left;  
    background-size: 50% 50%;  
    background-repeat: no-repeat;  
}
```

Срезанные углы



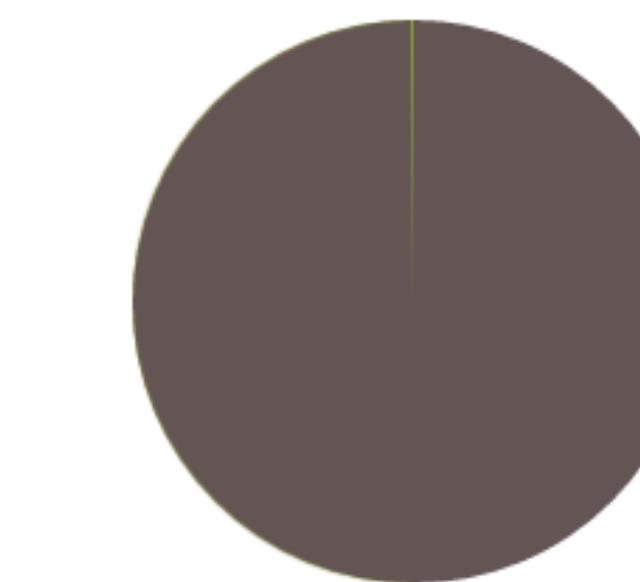
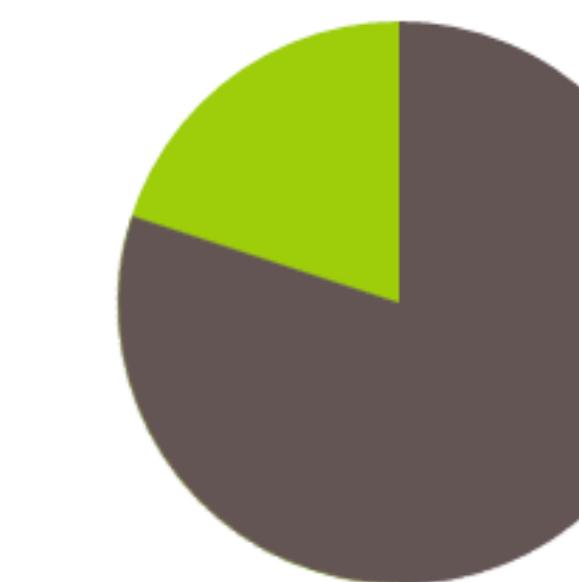
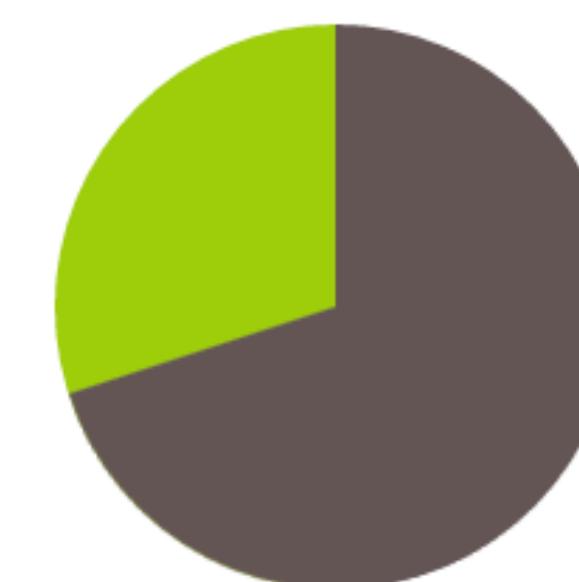
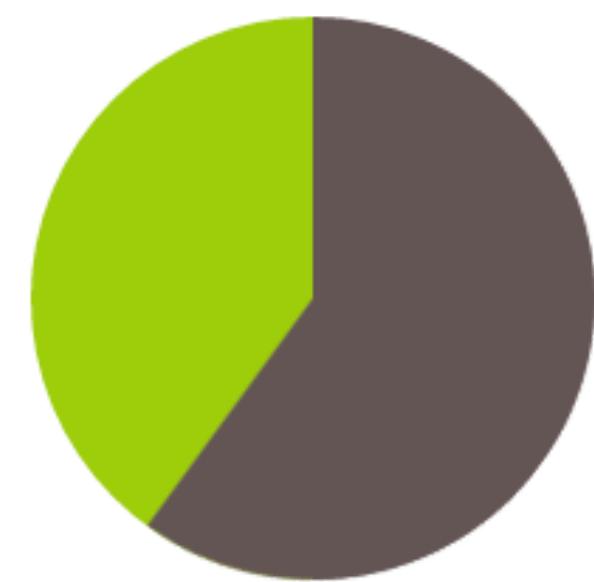
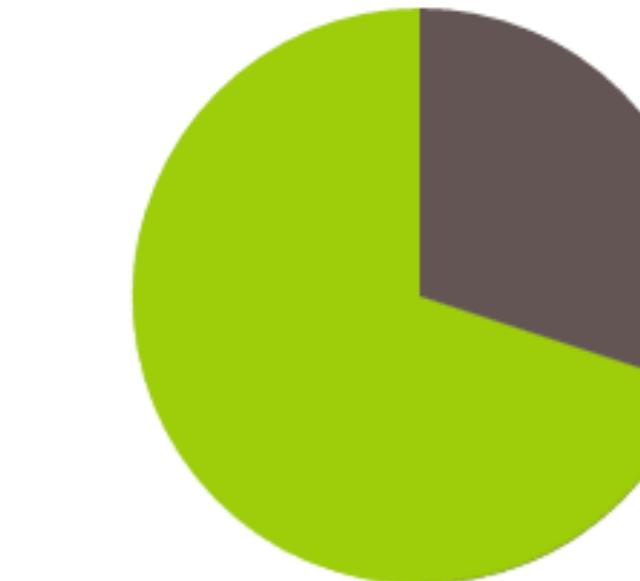
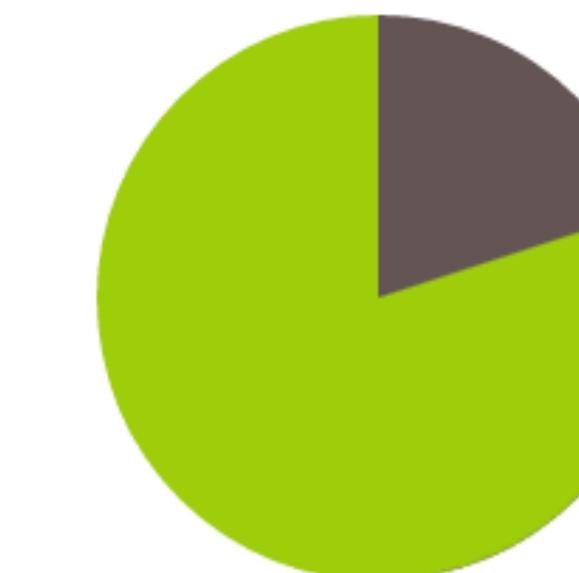
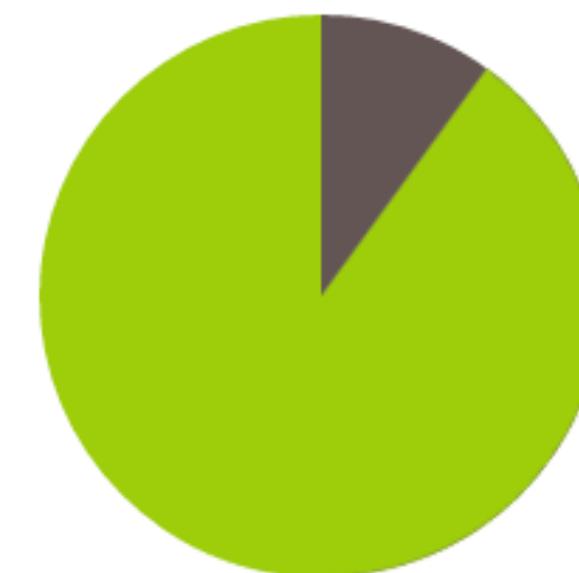
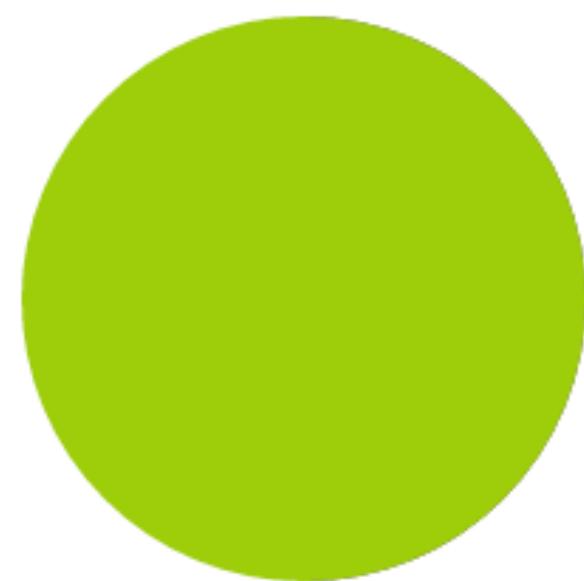
```
div {  
  background: radial-gradient(circle at top left, transparent 15px, #58a 0) top left,  
            radial-gradient(circle at top right, transparent 15px, #58a 0) top right,  
            radial-gradient(circle at bottom right, transparent 15px, #58a 0) bottom right,  
            radial-gradient(circle at bottom left, transparent 15px, #58a 0) bottom left;  
  background-size: 49% 49%;  
  background-repeat: no-repeat;  
}
```

Срезанные углы

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.
Voluptatem, error.

```
div {  
    background: radial-gradient(circle at top left, transparent 15px, #58a 0) top left,  
               radial-gradient(circle at top right, transparent 15px, #58a 0) top right,  
               radial-gradient(circle at bottom right, transparent 15px, #58a 0) bottom right,  
               radial-gradient(circle at bottom left, transparent 15px, #58a 0) bottom left;  
    background-size: 50% 50%;  
    background-repeat: no-repeat;  
}
```

Простые секторные диаграммы

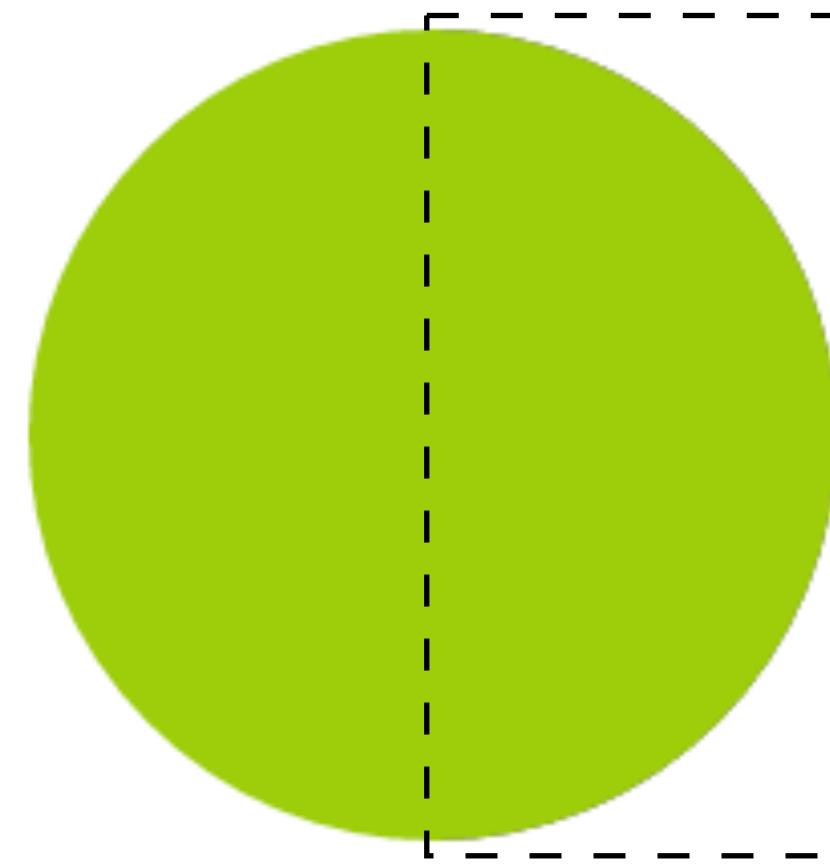




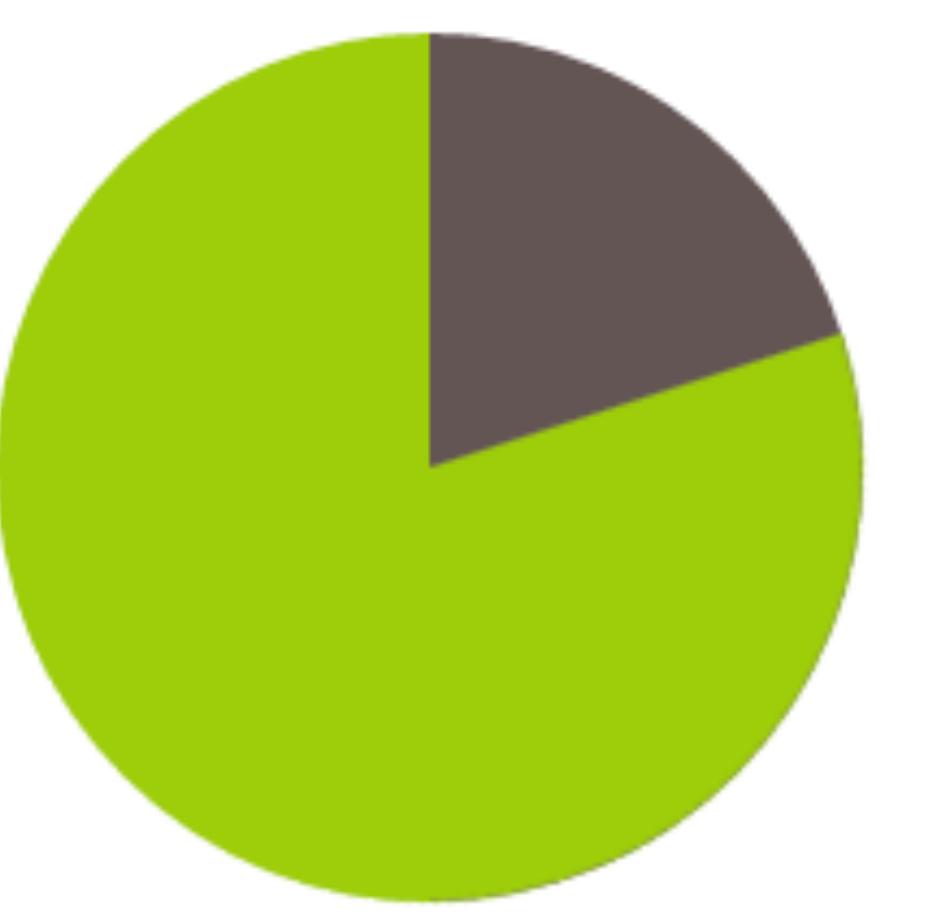
```
.pie {  
    width: 200px; height: 200px;  
    border-radius: 50%;  
    background: yellowgreen;  
}
```

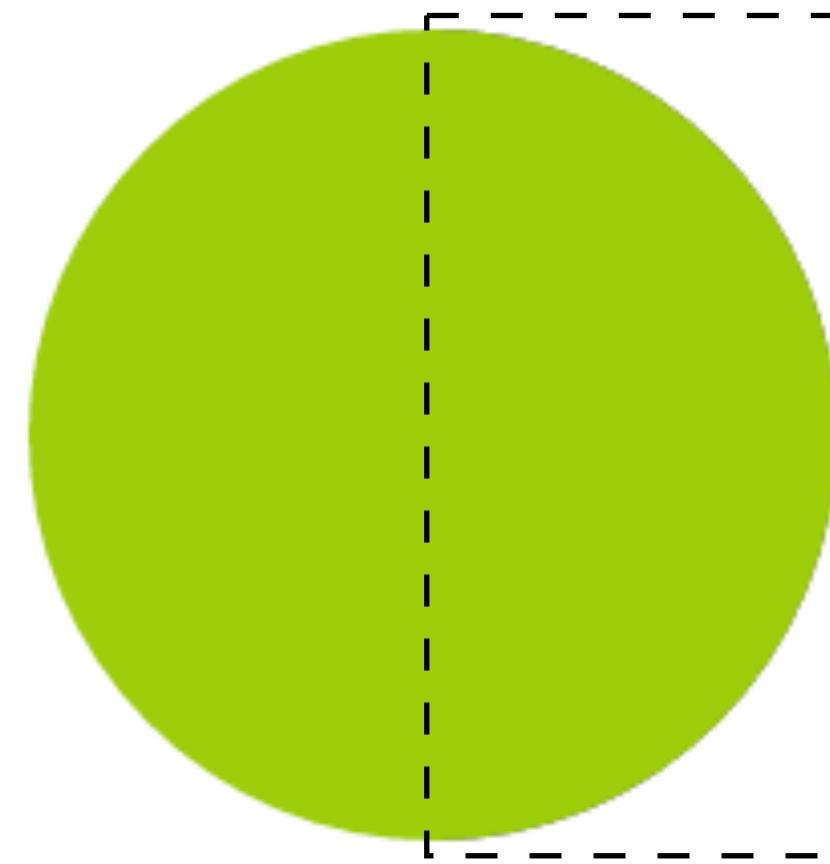


```
.pie {  
    width: 200px; height: 200px;  
    border-radius: 50%;  
    background: yellowgreen;  
  
    background-image: linear-gradient(to right, transparent 50%, #655 0);  
}
```



```
.pie::before{  
    content: '';  
    display: block;  
    margin-left: 50%;  
    height: 100%;  
    border-radius: 0 100% 100% 0 / 50%;  
    background-color: inherit;  
    transform-origin: left;  
}
```

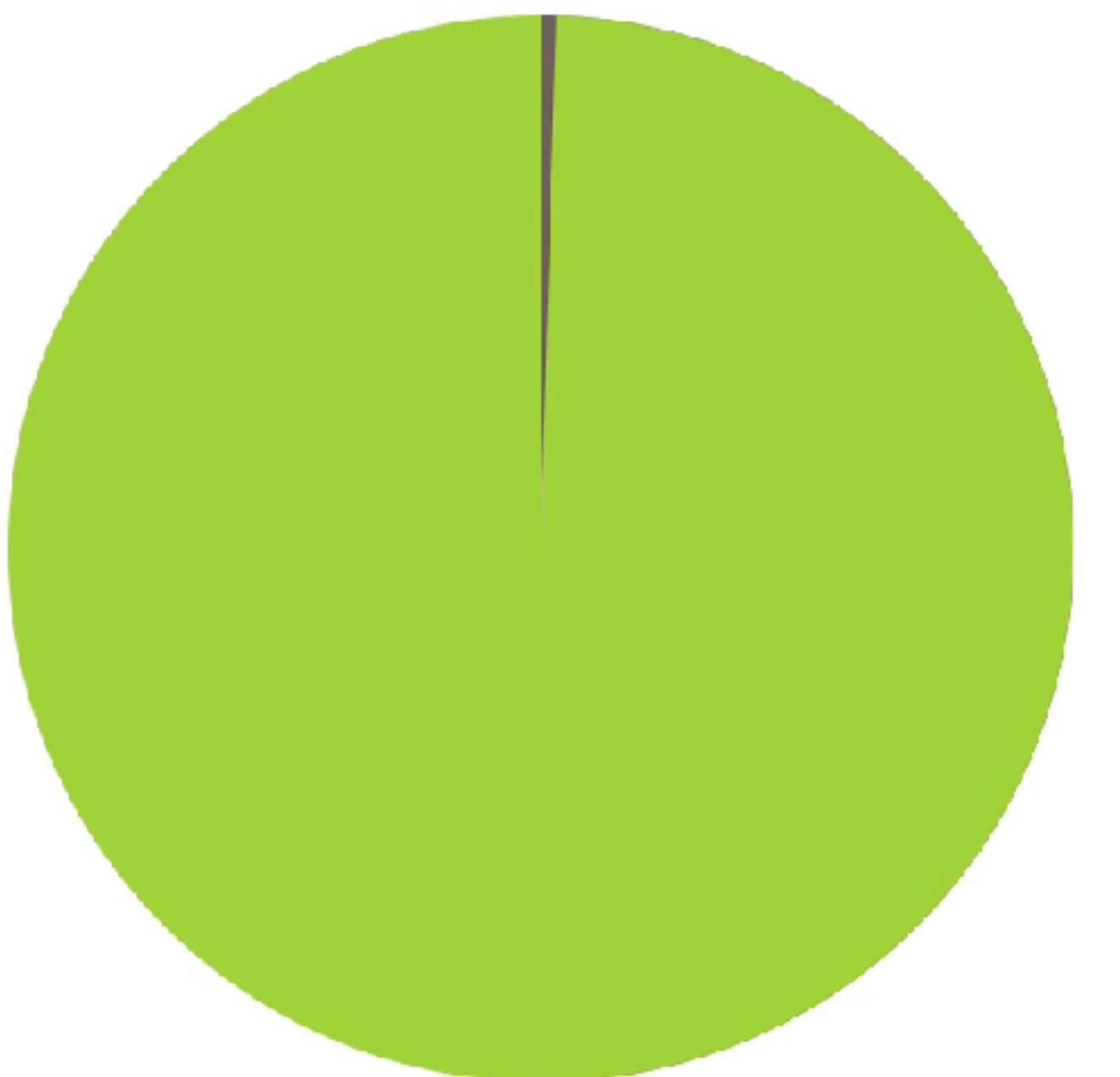


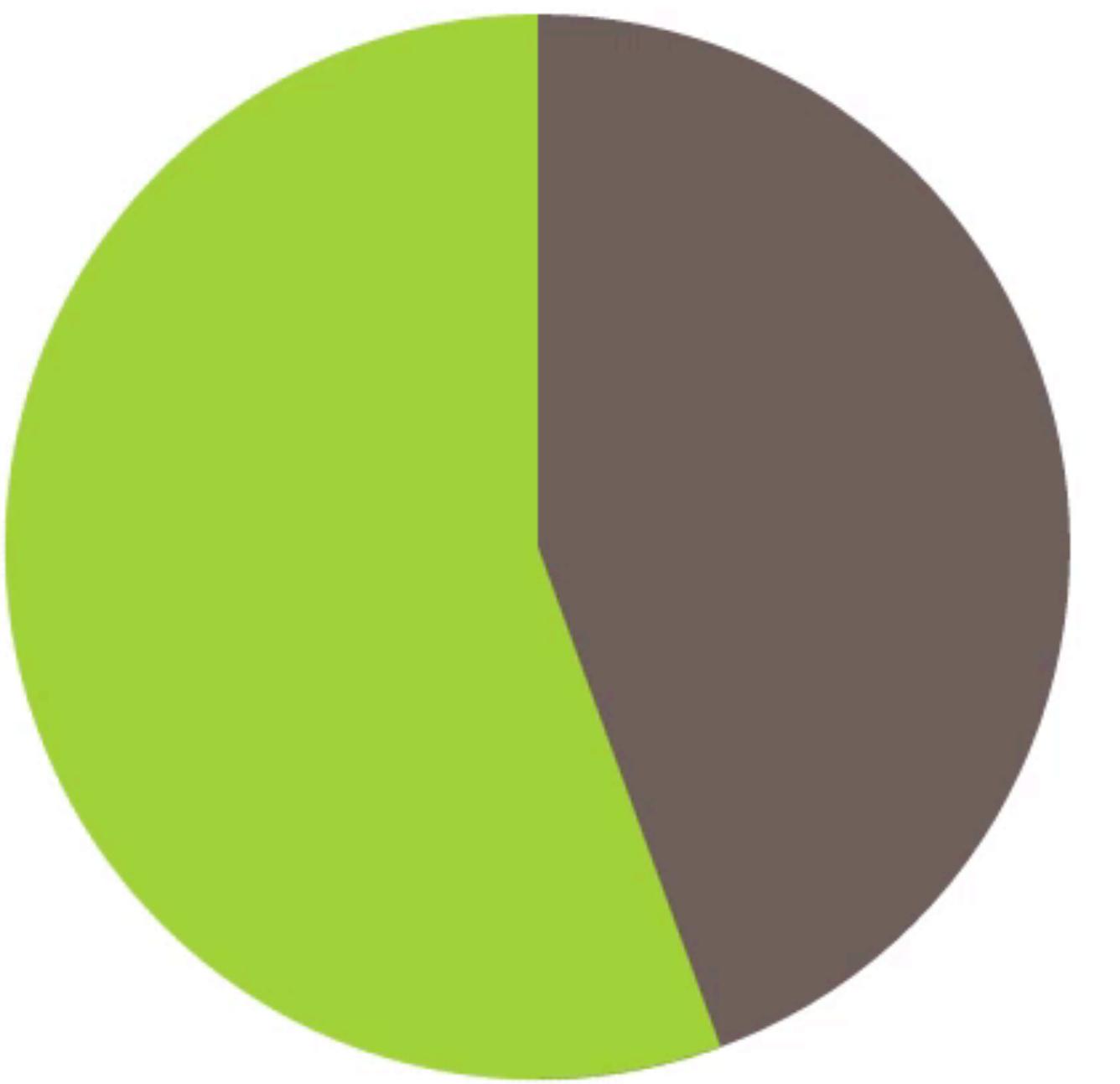


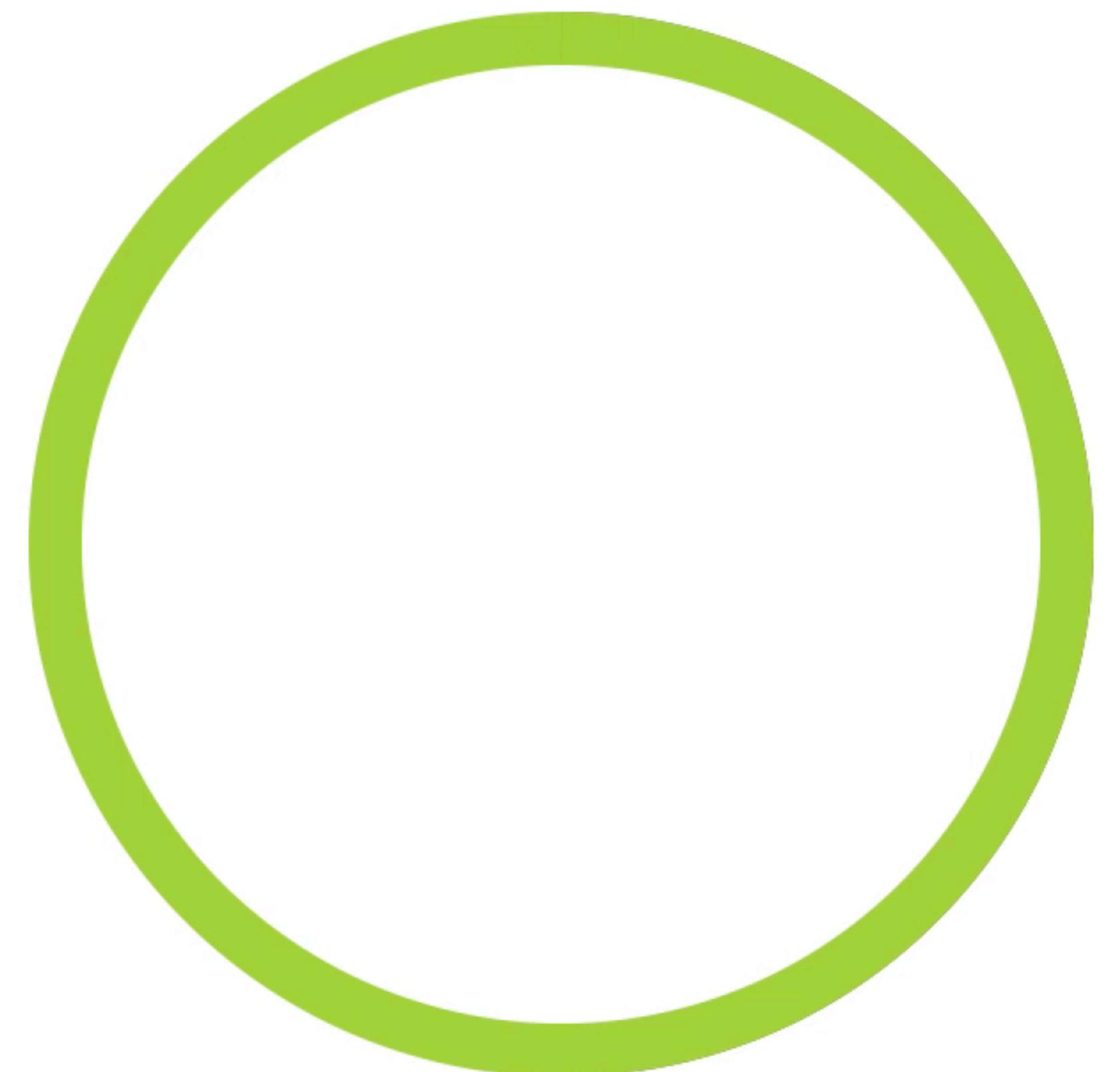
```
...
animation: spin 10s linear infinite, bg 20s step-end infinite;
}

@keyframes spin {
  to { transform: rotate(.5turn); }
}

@keyframes bg {
  50% { background: #655; }
}
```







Визуальные эффекты

Создание цветового тона с помощью фильтров



filter: sepia() saturate(4) hue-rotate(295deg);

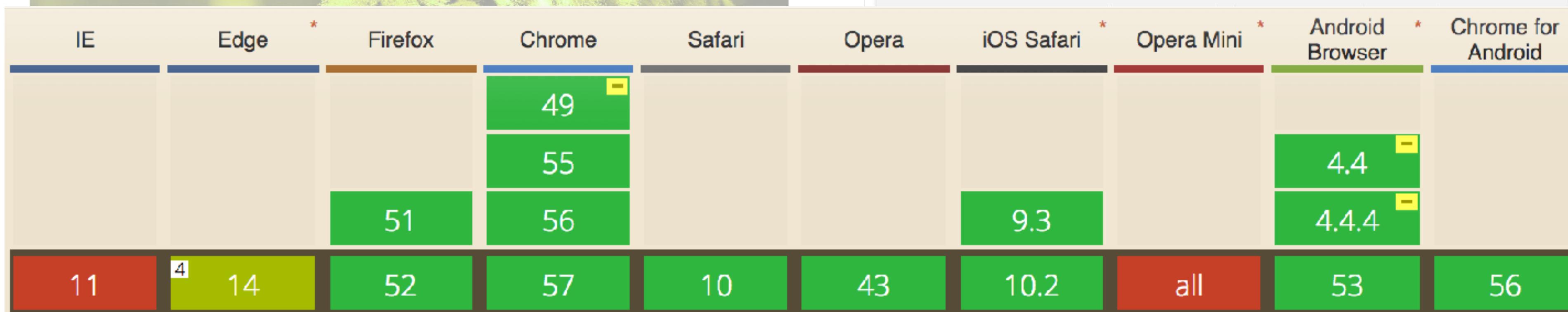
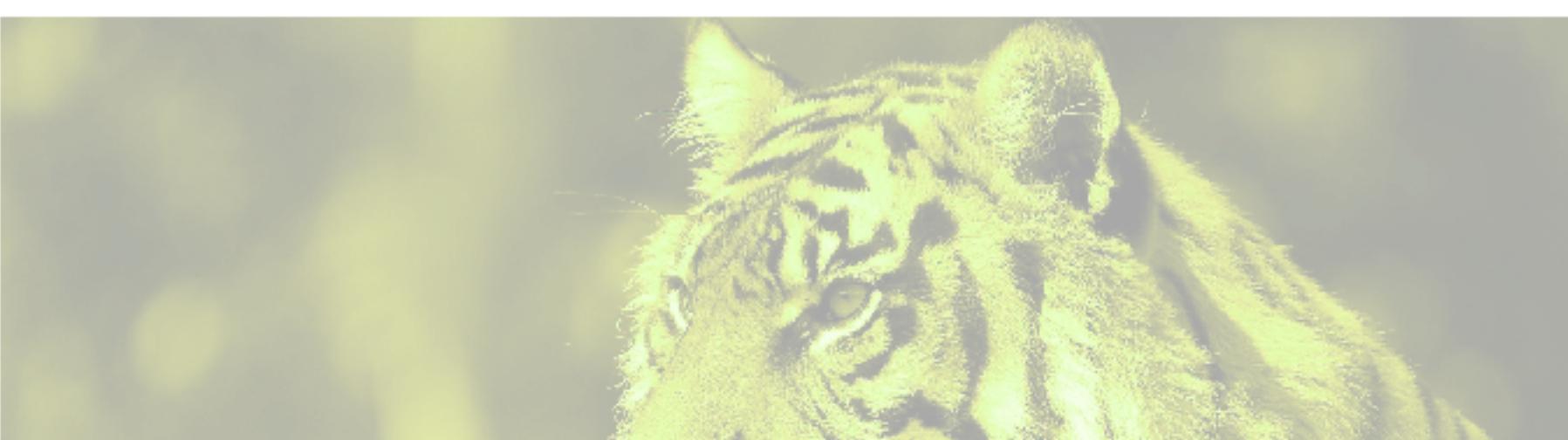


filter: sepia() saturate(4) hue-rotate(25deg);

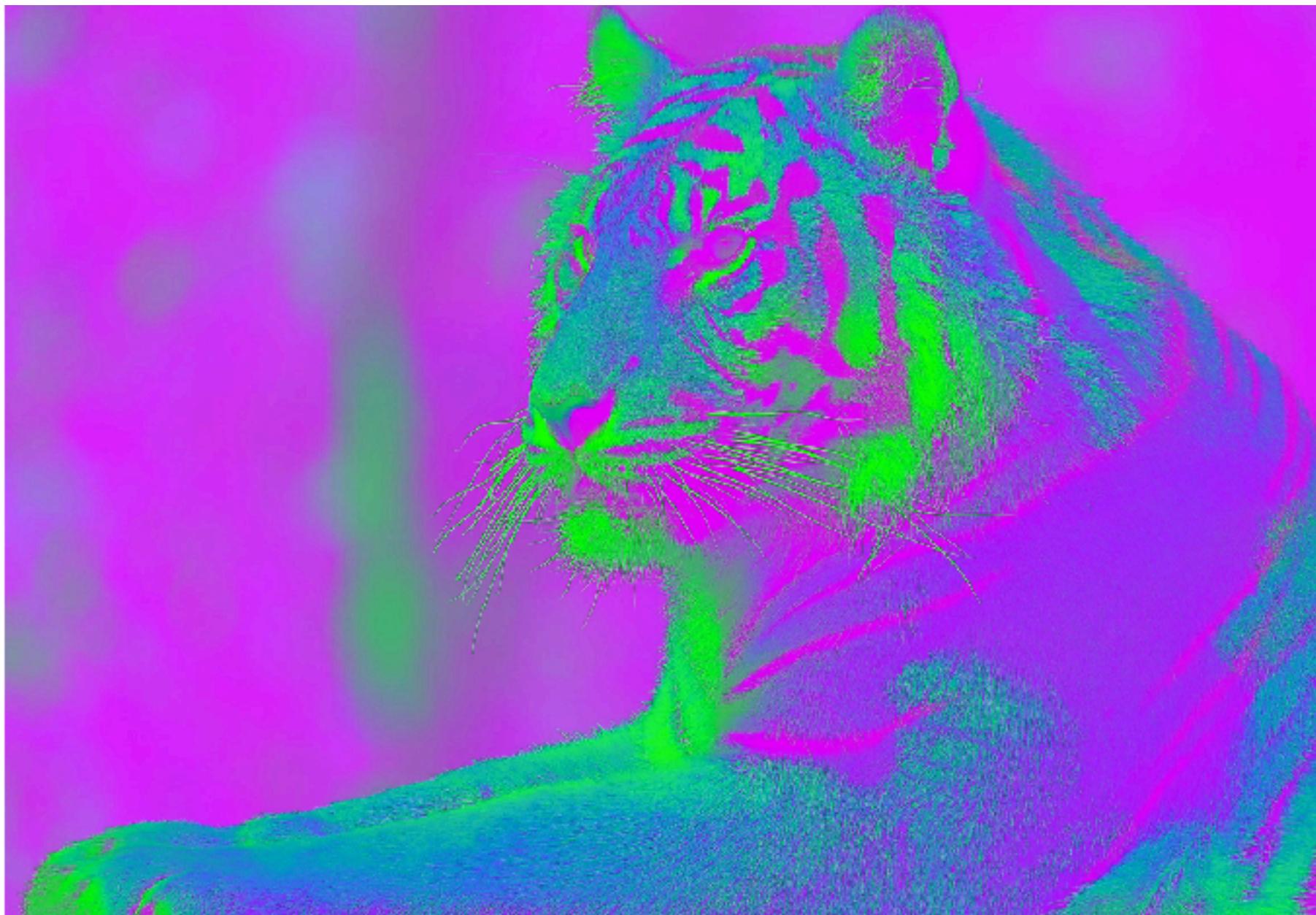
Создание цветового тона с помощью фильтров



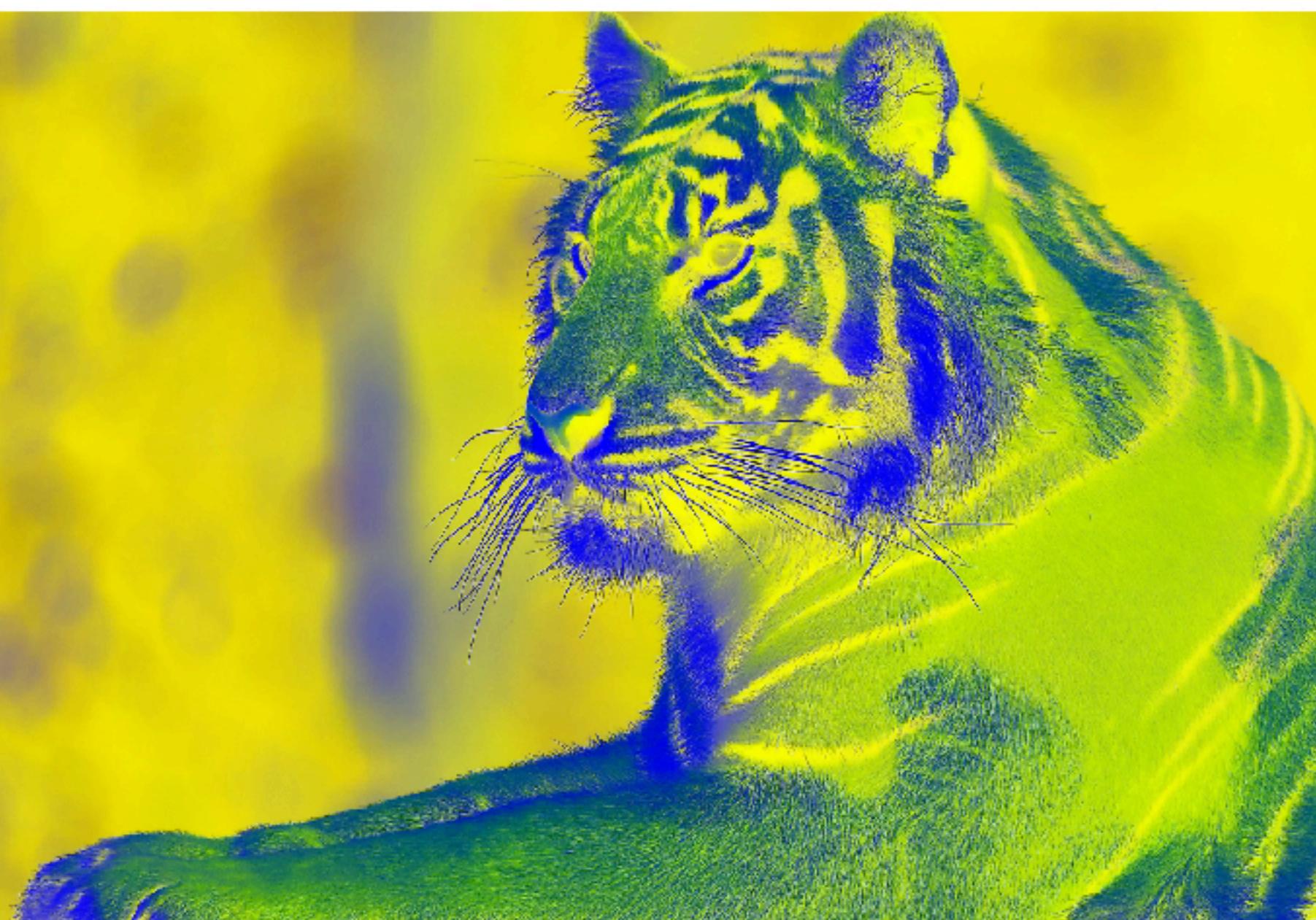
`filter: sepia() saturate(4) hue-rotate(295deg);`



Создание цветового тона с помощью background-blend-mode



```
tinted-image {  
  ...  
  background-color: hsl(335, 100%, 50%);  
  background-blend-mode: luminosity;  
  transition: .5s background-color;
```



```
.tinted-image {  
  ...  
  background-color: yellow;  
  background-blend-mode: difference;  
  transition: .5s background-color;  
}
```

```
.tinted-image:hover {  
  background-color: transparent;  
}
```

Создание цветового тона с помощью background-blend-mode



IE	Edge	* Firefox	Chrome	Safari	Opera	iOS Safari	* Opera Mini	* Android Browser	* Chrome for Android
			49			9.3		4.4	
			55					4.4.4	
		51	56						
11	14	52	57	10	43	10.2	all	53	56
15		53	58	10.1	44				

Плавная анимация состояния



Плавная анимация состояния



2880 x 606

Плавная анимация состояния



```
.panoramic {  
    width: 300px; height: 300px;  
    background: url('b.jpg');  
    background-size: auto 100%;  
    border-radius: 50%;  
    animation: panoramic 10s linear infinite alternate;  
    animation-play-state: paused;  
}
```

```
.panoramic:hover, .panoramic:focus {  
    animation-play-state: running;  
}  
@keyframes panoramic {  
    to { background-position: 100% 0; }  
}
```

Интерактивное сравнение изображений



```
<div class="image-slider">
  <div>
    
  </div>
  
</div>
```

Интерактивное сравнение изображений

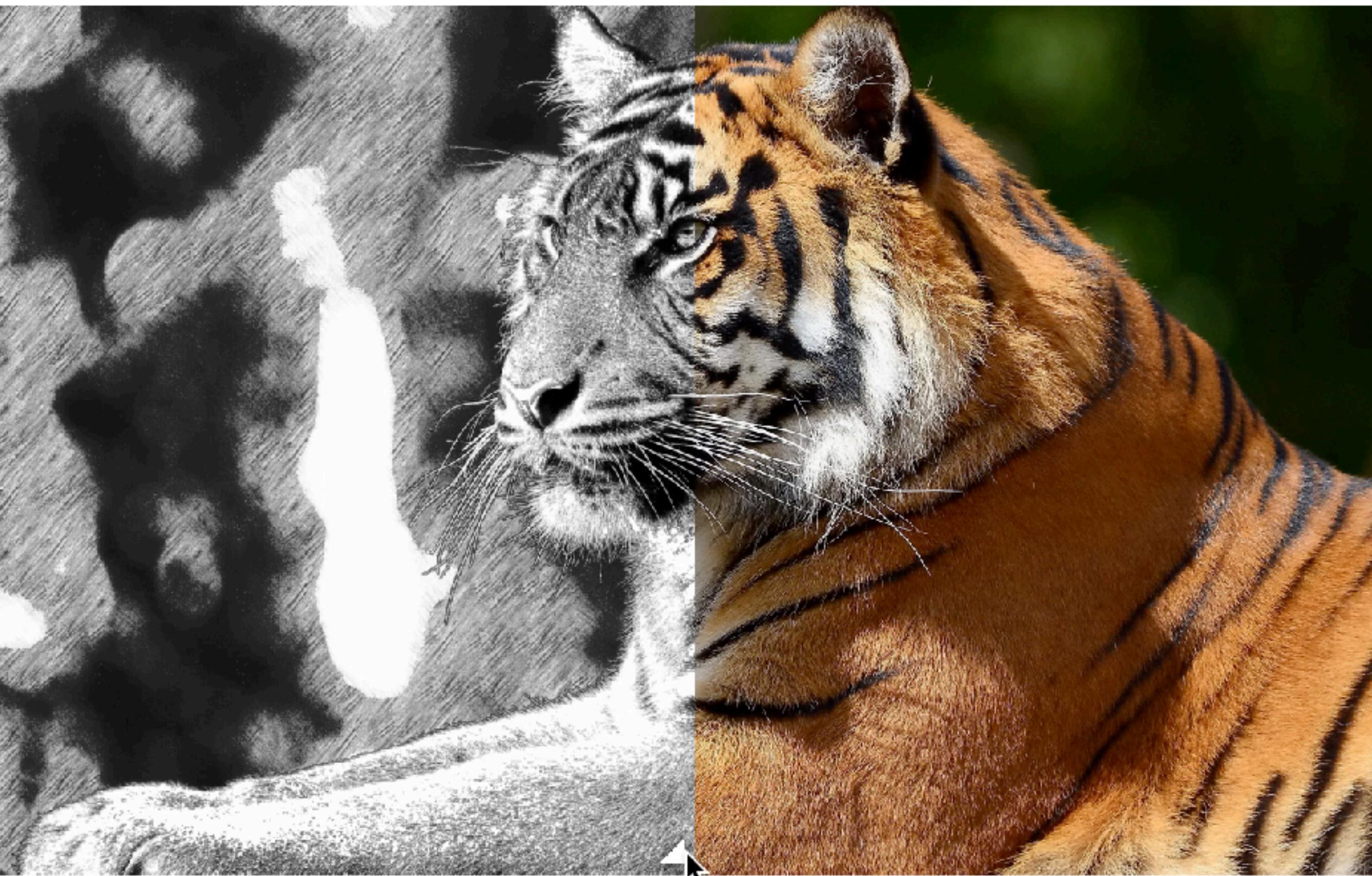


```
.image-slider {  
    position: relative;  
    display: inline-block;  
}  
.image-slider > div {  
    position: absolute;  
    top: 0; bottom: 0; left: 0;  
    width: 50%;  
    max-width: 100%;  
    overflow: hidden;  
    resize: horizontal;  
}
```

Интерактивное сравнение изображений



```
.image-slider {  
    position: relative;  
    display: inline-block;  
}  
  
.image-slider > div {  
    position: absolute;  
    bottom: 0; left: 0;  
    width: 50%;  
    height: 100%;  
    overflow: hidden;  
    resize: horizontal;  
}
```



```
.image-slider > div:before {  
    content: '';  
    position: absolute;  
    right: 0; bottom: 0;  
    width: 12px; height: 12px;  
    padding: 5px;  
    background: linear-gradient(-45deg, white 50%, transparent 0);  
  
    background-clip: content-box;  
    cursor: ew-resize;  
    filter: drop-shadow(0 0 2px black);  
}
```

Интерактивное сравнение изображений



```
.image-slider {  
    position: relative;  
    display: inline-block;  
    max-height: 600px;  
}  
.image-slider > div {  
    position: absolute;  
    top: 0; bottom: 0; left: 0;  
    width: 50%;  
    max-width: 100%;  
    overflow: hidden;  
    resize: horizontal;  
}  
.image-slider > div:before {  
    content: '';  
    position: absolute;  
    right: 0; bottom: 0;  
    width: 12px; height: 12px;  
    padding: 5px;  
    background: linear-gradient(-45deg, white 50%, transparent 0);  
    background-clip: content-box;  
    cursor: ew-resize;  
    filter: drop-shadow(0 0 2px black);  
}
```

Интерактивное сравнение изображений



```
.image-slider {  
    position: relative;  
    display: inline-block;  
    max-height: 600px;  
}  
.image-slider > div {  
    position: absolute;  
    top: 0; bottom: 0; left: 0;  
    width: 10%;  
    max-width: 100%;  
    overflow: hidden;  
    resize: horizontal;  
}  
.image-slider > div:before {  
    content: '';  
    position: absolute;  
    right: 0; bottom: 0;  
    width: 12px; height: 12px;  
    padding: 5px;  
    background: linear-gradient(-45deg, white 50%, transparent 0);  
    background-clip: content-box;  
    cursor: ew-resize;  
    filter: drop-shadow(0 0 2px black);  
}
```

Всем спасибо !

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Репозиторий с примерами и ссылками

<https://github.com/DmitryGrigorov/undocumented-tricks-css>

