

# Converting Colors

XYZ(33.4597, 63.2282, 19.0739)

Have a look what the booklet for  
XYZ(33.4597, 63.2282, 19.0739)  
contains.

<b>XYZ(33.5273, 63.3511, 19.0552)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(33.5273, 63.3511,  
19.0552)**

# Conversions

## Conversions Part 1

Format	Color
Hex	24F055
RGB	36, 240, 85
RGB Percent	14%, 94%, 33%
CMY	0.8588, 0.0588, 0.6666
CMYK	0.85, 0.00, 0.65, 0.06
HSL	134°, 87%, 54%
HSV	134°, 85%, 94%
XYZ	33.5273, 63.3511, 19.0552
YIQ	161.3340, -71.8290, -91.4530

# Conversions

## Conversions Part 2

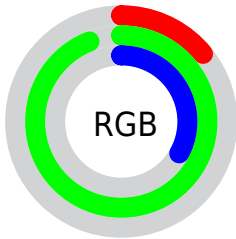
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	36, 200, 240
Decimal	2420821
CIE <sub>Lab</sub>	83.63, -76.14, 59.90
CIE <sub>LCh</sub>	84, 96.880, 141.808
Yxy	63.3511, 0.2892, 0.5464
Android (android.graphics.Color)	4280610901 (0xFF24F055)
YUV	161.3340, -37.6327, -109.9179
Hunter-Lab	79.5934, -64.0985, 41.5210

# Details

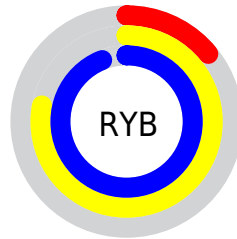
The XYZ color **33.5273, 63.3511, 19.0552** is a dark color, and the websafe version is hex **33FF66**. The color can be described as dark washed green. A complement of this color would be **45.9716, 23.5495, 51.4135**, and the grayscale version is **34.2269, 36.0094, 39.2142**.

A 20% lighter version of the original color is **48.5197, 77.5510, 37.2225**, and **16.8826, 33.5178, 6.3904** is the 20% darker color. If you saturate the color by 10%, you get **32.3192, 62.8033, 15.6928**, and if you desaturate by 10%, it is **35.4852, 64.2675, 23.4298**.

# Distribution



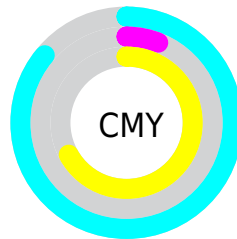
- Red (14%)
- Green (94%)
- Blue (33%)



- Red (14%)
- Yellow (78%)
- Blue (94%)



- Cyan (85%)
- Magenta (0%)
- Yellow (65%)
- Black (6%)



- Cyan (86%)
- Magenta (6%)
- Yellow (67%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.5273, 63.3511, 19.0552 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the XYZ color 33.5273, 63.3511, 19.0552 by changing the saturation by 10% instead.



33.5273, 63.3511,  
19.0552

33.5273, 63.3511,  
19.0552

309.6423,  
436.8426, 259.1862

22.6919, 46.1253,  
11.5330

64.5471, 109.6759,  
42.6653

14.4856, 32.3447,  
6.3079

85.4622, 139.5437,  
59.5902

8.5431, 21.6249,  
2.9614

110.4678,  
174.3942, 80.4865

4.4991, 13.5816,  
1.0749

139.9294,  
214.6120, 105.7726

1.9882, 7.8302,  
0.0000

174.2123,  
260.5813, 135.8670

0.6273, 3.9865,  
0.0000

213.6818,

0.0000, 1.6660,

312.6865, 171.1884

0.0000

258.7034,  
371.3122, 212.1553

■ 0.0000, 0.4015,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.5273, 63.3511,  
19.0552

■ 33.5273, 63.3511,  
19.0552

■ 32.3192, 62.8033,  
15.6928


■ 35.4852, 64.2675,  
23.4298


■ 31.9162, 62.6246,  
14.3622


■ 38.2981, 65.5998,  
28.8859


■ 42.0583, 67.3959,  
35.4912


■ 46.8445, 69.6952,  
43.3069

 52.7268, 72.5327,  
52.3896

 59.7692, 75.9402,  
62.7924

 68.0305, 79.9471,  
74.5652

 77.5657, 84.5806,  
87.7554

 88.4262, 89.8663,  
102.4082

# Harmonies

## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



46.3070, 63.3511, 7.4562



33.5273, 63.3511, 19.0552



28.2131, 63.3511, 53.6493

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



33.5273, 63.3511, 19.0552



54.5913, 63.3511, 260.9921



106.5279, 63.3511, 34.0699

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



33.5273, 63.3511, 19.0552



45.9716, 23.5495, 51.4135

# Split Complementary

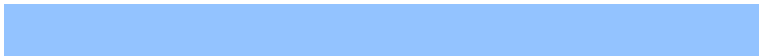
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



110.2281, 63.3511, 86.9807



33.5273, 63.3511, 19.0552



76.6575, 63.3511, 243.9848

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



33.5273, 63.3511, 19.0552



38.3674, 63.3511, 207.3792



98.2578, 63.3511, 169.2316



89.0887, 63.3511, 11.9022



# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



33.5273, 63.3511, 19.0552



28.4834, 63.3511, 95.7252



98.2578, 63.3511, 169.2316



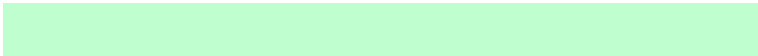
109.5611, 63.3511, 47.7452

# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



33.5288, 63.3537, 19.0566



68.5179, 87.1125, 71.9550



53.3204, 73.7093, 13.0862



14.0233, 18.3346, 14.4638



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



33.5288, 63.3537, 19.0566



36.6091, 71.8597, 16.3915



40.7098, 66.2261, 56.8710



15.7215, 17.7186, 17.5565



17.5141, 34.2976, 8.0900



1.4948, 2.8684, 0.8719



# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



45.9716, 23.5495, 51.4135



50.9492, 25.1437, 53.0580



38.4302, 20.5329, 11.7006



16.2825, 15.9627, 19.0436



24.3681, 12.0197, 25.6529

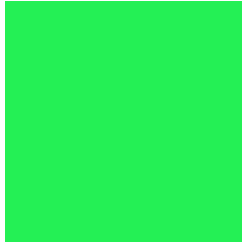


2.0657, 1.0153, 2.3366



# Previews

## White Background



This preview shows how the XYZ color 33.5273, 63.3511, 19.0552 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

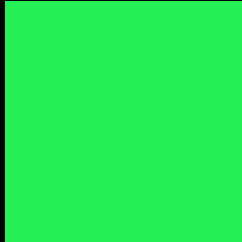
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.5273, 63.3511, 19.0552 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

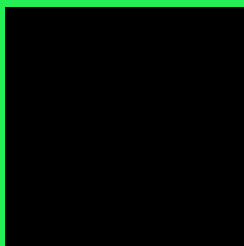
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.5273, 63.3511, 19.0552**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.5273, 63.3511, 19.0552.



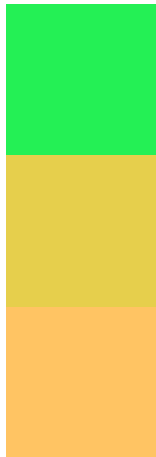
This preview shows how white text looks on a background with the XYZ color 33.5273, 63.3511,



# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



### Original Color

33.5273, 63.3511, 19.0552

### Protanopia

56.2505, 61.9704, 15.8343

### Deuteranopia

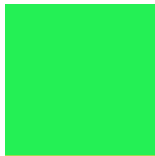
63.2321, 61.6407, 20.3695



## Tritanopia

48.5824, 63.1463, 94.4219

# Trichromacy



## Original Color

33.5273, 63.3511, 19.0552



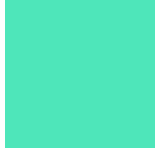
## Protanomaly

41.0409, 58.5985, 16.5447



## Deuteranomaly

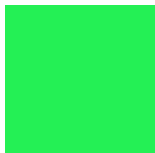
43.2431, 57.0091, 19.3144



## Tritanomaly

40.3016, 61.7585, 56.2508

# Monochromacy



## Original Color

33.5273, 63.3511, 19.0552



## Achromatopsia

33.8758, 35.6400, 38.8120



## Achromatomaly

29.8496, 42.2334, 28.7689

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.5273, 63.3511, 19.0552 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(36, 240, 85)` looks like.

```
.text, #text, p{  
    color:rgb(36, 240, 85)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(36, 240, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(36, 240, 85) }
```

## Border

The CSS property to change the border of an element to XYZ 33.5273, 63.3511, 19.0552 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(36, 240, 85) }
```



If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(36, 240, 85) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(36, 240, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(36, 240, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(36, 240, 85);  
box-shadow:4px 4px 4px 4px rgb(36, 240,  
85) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.5273, 63.3511, 19.0552 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(36, 240, 85) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(36, 240,  
85) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor