

# Converting Colors

XYZ(21.2667, 38.4117, 15.8178)

Have a look what the booklet for  
XYZ(21.2667, 38.4117, 15.8178)  
contains.

<b>XYZ(21.2707, 38.4142, 15.7448)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(21.2707, 38.4142,  
15.7448)**

# Conversions

## Conversions Part 1

Format	Color
Hex	27BF59
RGB	39, 191, 89
RGB Percent	15%, 75%, 35%
CMY	0.8470, 0.2510, 0.6510
CMYK	0.80, 0.00, 0.53, 0.25
HSL	140°, 66%, 45%
HSV	140°, 80%, 75%
XYZ	21.2707, 38.4142, 15.7448
YIQ	133.9240, -57.8500, -63.9460

# Conversions

## Conversions Part 2

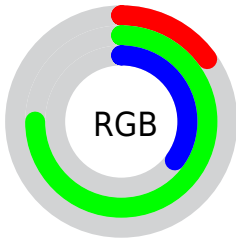
<b>Format</b>	<b>Color</b>
<b>RYB</b>	39, 153, 191
Decimal	2604889
CIELab	68.32, -59.90, 40.41
CIElCh	68, 72.261, 145.996
Yxy	38.4142, 0.2820, 0.5093
Android (android.graphics.Color)	4280794969 (0xFF27BF59)
YUV	133.9240, -22.1475, -83.2483
Hunter-Lab	61.9792, -47.2040, 28.3238

# Details

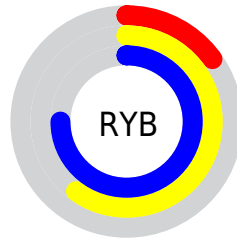
The XYZ color **21.2707, 38.4142, 15.7448** is a dark color, and the websafe version is hex **33CC66**. A complement of this color would be **27.0203, 14.4513, 26.5660**, and the grayscale version is **22.7271, 23.9107, 26.0387**.

A 20% lighter version of the original color is **45.1138, 72.9894, 36.9099**, and **9.1704, 17.7548, 4.8631** is the 20% darker color. If you saturate the color by 10%, you get **20.2290, 37.9351, 13.1274**, and if you desaturate by 10%, it is **22.7718, 39.1215, 18.8747**.

# Distribution



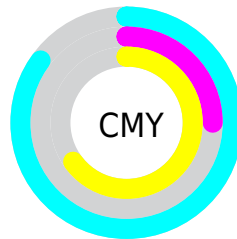
- Red (15%)
- Green (75%)
- Blue (35%)



- Red (15%)
- Yellow (60%)
- Blue (75%)



- Cyan (80%)
- Magenta (0%)
- Yellow (53%)
- Black (25%)



- Cyan (85%)
- Magenta (25%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.2707, 38.4142, 15.7448 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 21.2707, 38.4142, 15.7448 by changing the saturation by 10% instead.





 21.2707, 38.4142,  
15.7448


 21.2707, 38.4142,  
15.7448


251.4182,  
339.3935, 239.6252


 13.4356, 26.3043,  
9.1914


 45.0255, 72.7426,  
36.9152

 7.8082, 17.0514,  
4.7677


 61.6759, 95.7298,  
52.3692


 4.0233, 10.2712,  
2.0553


 81.9955, 123.1117,  
71.6272

 1.7153, 5.5791,  
0.5890

 106.3496,  
155.2725, 95.1077

 0.4658, 2.5909,  
0.0000

 135.1036,  
192.5967, 123.2292

 0.0000, 0.9221,  
0.0000

168.6228,

 0.0000, 0.0000,

235.4686, 156.4102

0.0000

207.2725,  
284.2728, 195.0694

■ 21.2707, 38.4142,  
15.7448

■ 21.2707, 38.4142,  
15.7448

■ 20.2290, 37.9351,  
13.1274

■ 22.7718, 39.1215,  
18.8747

■ 19.5491, 37.6312,  
10.9900

■ 24.7823, 40.0788,  
22.5404

■ 19.5240, 37.6200,  
10.9100

■ 27.3480, 41.3106,  
26.7669

■ 30.5088, 42.8369,  
31.5767

■ 34.3009, 44.6759,  
36.9913

■ 38.7574, 46.8442,  
43.0309

■ 43.9089, 49.3573,  
49.7146

■ 49.7844, 52.2297,  
57.0609

■ 56.4109, 55.4750,  
65.0876

# Harmonies

## Analogous

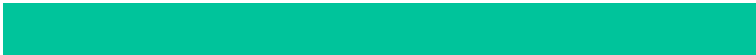
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



27.7743, 38.4142, 7.0835



21.2707, 38.4142, 15.7448



18.8117, 38.4142, 37.6213

# Triad

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



21.2707, 38.4142, 15.7448



35.0120, 38.4142, 139.9848



59.7907, 38.4142, 20.0134

# Complementary

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



21.2707, 38.4142, 15.7448



27.0203, 14.4513, 26.5660

# 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.



62.8279, 38.4142, 46.3340



21.2707, 38.4142, 15.7448



46.9123, 38.4142, 126.6541

# Square

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



21.2707, 38.4142, 15.7448



25.6369, 38.4142, 117.7566



57.7030, 38.4142, 87.2977



50.0942, 38.4142, 8.5018



# Rectangle

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



21.2707, 38.4142, 15.7448



19.3240, 38.4142, 61.4744



57.7030, 38.4142, 87.2977



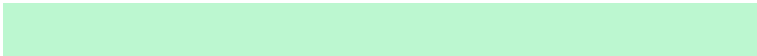
61.7003, 38.4142, 26.8866

# Sweetspot

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



21.2716, 38.4158, 15.7457



65.4289, 81.9555, 71.7317



30.3030, 43.2376, 8.6683



13.7508, 17.6967, 14.9092



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



21.2716, 38.4158, 15.7457



35.3559, 67.5491, 20.7728



26.0915, 40.3437, 41.1265



9.5347, 10.7000, 10.7993



12.8639, 24.7358, 7.3460



0.5348, 0.9813, 0.4503



# Inverse Universe

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



27.0203, 14.4513, 26.5660



45.8781, 23.0141, 40.0811



23.2215, 12.9317, 6.5619



9.7929, 9.6414, 11.2982



16.7266, 8.3218, 14.3860



0.6842, 0.3376, 0.7161



# Previews

## White Background



This preview shows how the XYZ color 21.2707, 38.4142, 15.7448 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 21.2707, 38.4142, 15.7448 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 21.2707, 38.4142, 15.7448**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.2707, 38.4142, 15.7448.



This preview shows how white text looks on a background with the XYZ color 21.2707, 38.4142,



# 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

21.2707, 38.4142, 15.7448

### Protanopia

34.4688, 37.5716, 13.2199

### Deuteranopia

38.5189, 37.7531, 16.8122



## Tritanopia

29.5385, 38.3314, 56.8808

# Trichromacy



## Original Color

21.2707, 38.4142, 15.7448



## Protanomaly

26.0964, 35.7375, 13.9101



## Deuteranomaly

27.5956, 35.3265, 16.1907



## Tritanomaly

25.3880, 37.8395, 37.4182

# Monochromacy



## Original Color

21.2707, 38.4142, 15.7448



## Achromatopsia

22.6597, 23.8398, 25.9615



## Achromatomaly

20.1369, 27.4033, 21.3676

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.2707, 38.4142, 15.7448 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(39, 191, 89)` looks like.

```
.text, #text, p{  
    color:rgb(39, 191, 89)  
}
```

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(39, 191, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(39, 191, 89) }
```

## Border

The CSS property to change the border of an element to XYZ 21.2707, 38.4142, 15.7448 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(39, 191, 89) }
```



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

```
.border{ border-color:rgb(39, 191, 89) }
```

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

Here you see how a box with a 4 pixel rgb(39, 191, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(39, 191, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(39, 191, 89);  
box-shadow:4px 4px 4px 4px rgb(39, 191,  
89) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.2707, 38.4142, 15.7448 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(39, 191, 89) }
```

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

```
.background{ background-color: rgb(39, 191,  
89) }
```

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](#).

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