

# Converting Colors

XYZ(39.8666, 63.3668, 12.0885)

Have a look what the booklet for  
XYZ(39.8666, 63.3668, 12.0885)  
contains.

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# Color

**XYZ(39.8703, 63.3487,  
12.0456)**

# Conversions

## Conversions Part 1

Format	Color
Hex	8BE827
RGB	139, 232, 39
RGB Percent	55%, 91%, 15%
CMY	0.4549, 0.0902, 0.8470
CMYK	0.40, 0.00, 0.83, 0.09
HSL	89°, 81%, 53%
HSV	89°, 83%, 91%
XYZ	39.8703, 63.3487, 12.0456
YIQ	182.1910, 6.5250, -79.7390

# Conversions

## Conversions Part 2

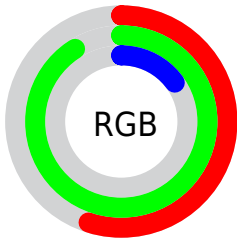
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">39, 232, 132</a>
Decimal	<a href="#">9168935</a>
CIELab	<a href="#">83.63, -55.13, 75.76</a>
CIELCh	<a href="#">84, 93.694, 126.045</a>
Yxy	<a href="#">63.3487, 0.3459, 0.5496</a>
Android (android.graphics.Color)	<a href="#">4287359015 (0xFF8BE827)</a>
YUV	<a href="#">182.1910, -70.5932, -37.8785</a>
Hunter-Lab	<a href="#">79.5919, -49.8691, 46.7413</a>

# Details

The XYZ color **39.8703, 63.3487, 12.0456** is a dark color, and the websafe version is hex **99FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **24.8103, 12.1850, 77.3918**, and the grayscale version is **44.9401, 47.2805, 51.4884**.

A 20% lighter version of the original color is **61.8119, 84.6616, 26.1802**, and **18.6672, 32.6704, 5.3221** is the 20% darker color. If you saturate the color by 10%, you get **37.8250, 62.3280, 10.5197**, and if you desaturate by 10%, it is **42.3441, 64.5672, 14.8188**.

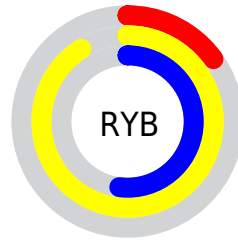
# Distribution



Red (55%)

Green (91%)

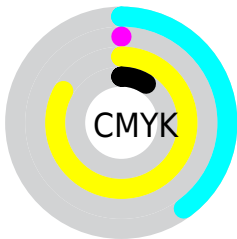
Blue (15%)



Red (15%)

Yellow (91%)

Blue (52%)

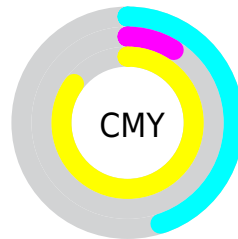


Cyan (40%)

Magenta (0%)

Yellow (83%)

Black (9%)



Cyan (45%)

Magenta (9%)


Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.8703, 63.3487, 12.0456 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 39.8703, 63.3487, 12.0456 by changing the saturation by 10% instead.





 39.8703, 63.3487,  
12.0456


 39.8703, 63.3487,  
12.0456


336.7204,  
436.8339, 215.6956

 27.6212, 46.1234,  
6.6518


 74.2516, 109.6724,  
30.2438


 18.1793, 32.3432,  
3.1702


 97.1144, 139.5396,  
43.8852


 11.1793, 21.6238,  
1.1822


 124.2459,  
174.3895, 61.1130

 6.2557, 13.5807,  
0.0000

 156.0114,  
214.6065, 82.3457

 3.0433, 7.8296,  
0.0000

 192.7763,  
260.5751, 108.0017

 1.1767, 3.9861,  
0.0000

 234.9058,

 0.0879, 1.6658,

312.6796, 138.4997

0.0000

282.7654,  
371.3044, 174.2581

■ 0.0000, 0.4014,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 39.8703, 63.3487,  
12.0456

■ 39.8703, 63.3487,  
12.0456

■ 37.8250, 62.3280,  
10.5197


■ 42.3441, 64.5672,  
14.8188


■ 36.6315, 61.7234,  
9.9831

■ 45.2848, 65.9930,  
19.0315


■ 48.7297, 67.6438,  
24.8470


■ 52.7105, 69.5328,  
32.4057

 57.2558, 71.6720,  
41.8325

 62.3918, 74.0725,  
53.2411

 68.1429, 76.7446,  
66.7358

 74.5318, 79.6978,  
82.4138

 81.5802, 82.9413,  
100.3661

# Harmonies

## Analogous

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



56.1554, 63.3487, 6.6077



39.8703, 63.3487, 12.0456



30.8982, 63.3487, 32.5474

# Triad

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



39.8703, 63.3487, 12.0456



45.5846, 63.3487, 232.0893



108.5229, 63.3487, 57.7596

# Complementary

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



39.8703, 63.3487, 12.0456



24.8103, 12.1850, 77.3918

# 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.



103.8871, 63.3487, 125.7045



39.8703, 63.3487, 12.0456



64.4574, 63.3487, 253.1168

# Square

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



39.8703, 63.3487, 12.0456



33.6354, 63.3487, 158.9902



86.5065, 63.3487, 206.4098



98.0305, 63.3487, 21.5962



# Rectangle

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



39.8703, 63.3487, 12.0456



28.8302, 63.3487, 61.4794



86.5065, 63.3487, 206.4098



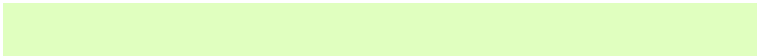
108.7085, 63.3487, 77.0584

# Sweetspot

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



39.8718, 63.3515, 12.0470



76.0184, 91.1844, 63.0283



41.5068, 33.0234, 6.1069



15.7827, 19.2892, 12.3977



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.



39.8718, 63.3515, 12.0470



45.2935, 76.4347, 12.3662



30.3262, 58.4305, 11.6003



14.8981, 16.4545, 15.2953



20.4818, 34.3402, 5.5488



1.6207, 2.5929, 0.4151



# Inverse Universe

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



24.8103, 12.1850, 77.3918



26.2021, 11.4226, 95.4315



46.5219, 23.3778, 78.4079



14.2405, 14.2262, 18.1397



11.9258, 5.2139, 42.7610

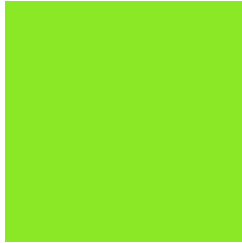


0.9881, 0.4404, 3.1649



# Previews

## White Background



This preview shows how the XYZ color 39.8703, 63.3487, 12.0456 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 39.8703, 63.3487, 12.0456 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 39.8703, 63.3487, 12.0456**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.8703, 63.3487, 12.0456.



This preview shows how white text looks on a background with the XYZ color 39.8703, 63.3487,



# 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

39.8703, 63.3487, 12.0456

### Protanopia

56.4209, 62.5397, 10.4642

### Deuteranopia

63.3224, 62.4035, 18.6052



## Tritanopia

54.7809, 62.9943, 86.3626

# Trichromacy



## Original Color

39.8703, 63.3487, 12.0456



## Protanomaly

48.6694, 61.8892, 10.9708



## Deuteranomaly

51.6569, 60.7072, 15.1259



## Tritanomaly

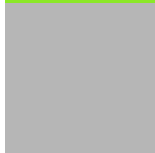
46.3532, 61.9191, 43.6909

# Monochromacy



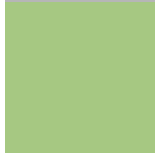
## Original Color

39.8703, 63.3487, 12.0456



## Achromatopsia

44.4628, 46.7784, 50.9417



## Achromatomaly

40.4094, 51.0272, 28.8385

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.8703, 63.3487, 12.0456 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(139, 232, 39)` looks like.

```
.text, #text, p{  
    color:rgb(139, 232, 39)  
}
```

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(139, 232, 39) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(139, 232, 39) }
```

## Border

The CSS property to change the border of an element to XYZ 39.8703, 63.3487, 12.0456 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(139, 232, 39) }
```



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

```
.border{ border-color:rgb(139, 232, 39) }
```

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

Here you see how a box with a 4 pixel `rgb(139, 232, 39)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(139, 232, 39); -webkit-box-  
shadow:4px 4px 4px 4px rgb(139, 232, 39);  
box-shadow:4px 4px 4px 4px rgb(139, 232,  
39) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.8703, 63.3487, 12.0456 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(139, 232, 39) }
```

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

```
.background{ background-color: rgb(139,  
232, 39) }
```

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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