

# Converting Colors

XYZ(39.7870, 48.6673,  
101.9045)

Have a look what the booklet for  
XYZ(39.7870, 48.6673, 101.9045)  
contains.

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# Color

**XYZ(39.8387, 48.7707,  
101.9217)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33C7FF
RGB	51, 199, 255
RGB Percent	20%, 78%, 100%
CMY	0.7999, 0.2196, 0.0000
CMYK	0.80, 0.22, 0.00, 0.00
HSL	196°, 100%, 60%
HSV	196°, 80%, 100%
XYZ	39.8387, 48.7707, 101.9217
YIQ	161.1320, -106.1840, -13.9600

# Conversions

## Conversions Part 2

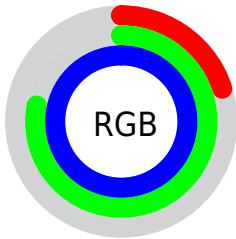
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 137, 255
Decimal	3393535
CIE <sub>Lab</sub>	75.31, -19.38, -38.22
CIE <sub>LCh</sub>	75, 42.849, 243.108
Yxy	48.7707, 0.2091, 0.2560
Android (android.graphics.Color)	4281583615 (0xFF33C7FF)
YUV	161.1320, 46.2769, -96.5858
Hunter-Lab	69.8360, -20.3858, -37.6452

# Details

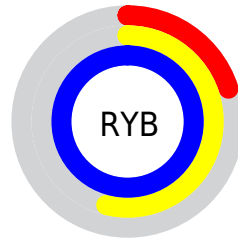
The XYZ color **39.8387, 48.7707, 101.9217** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed cyan. A complement of this color would be **47.0974, 32.0180, 6.8320**, and the grayscale version is **33.7678, 35.5264, 38.6882**.

A 20% lighter version of the original color is **62.8633, 83.4071, 107.3937**, and **20.3184, 24.3280, 57.0510** is the 20% darker color. If you saturate the color by 10%, you get **37.3139, 45.1336, 101.3527**, and if you desaturate by 10%, it is **43.1439, 52.9218, 102.5488**.

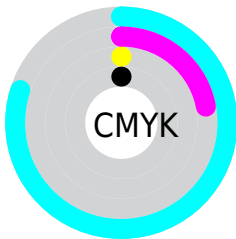
# Distribution



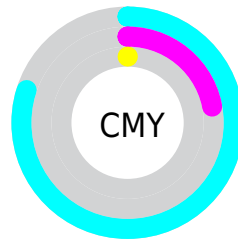
- Red (20%)
- Green (78%)
- Blue (100%)



- Red (20%)
- Yellow (54%)
- Blue (100%)



- Cyan (80%)
- Magenta (22%)
- Yellow (0%)
- Black (0%)



- Cyan (80%)
- Magenta (22%)
- Yellow (0%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 39.8387, 48.7707, 101.9217 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 39.8387, 48.7707, 101.9217 by changing the saturation by 10% instead.




 39.8387, 48.7707,  
101.9217


 39.8387, 48.7707,  
101.9217


336.5893,  
381.8389, 587.6356

 27.5965, 34.4376,  
77.2806


 74.2037, 88.3508,  
165.8704


 18.1606, 23.2300,  
56.9703


 97.0572, 114.3666,  
206.0151

 11.1657, 14.7634,  
40.5722


 124.1785,  
145.0454, 252.1647

 6.2465, 8.6535,  
27.6678

 155.9330,  
180.7717, 304.7377

 3.0376, 4.5159,  
17.8385

192.6859,  
221.9298, 364.1528

 1.1737, 1.9661,  
10.6659

234.8027,

 0.0855, 0.5877,

268.9041, 430.8285

5.7313

282.6487,  
322.0790, 505.1832

■ 0.0000, 0.0000,  
2.6163

■ 0.0000, 0.0000,  
0.9008

■ 39.8387, 48.7707,  
101.9217

■ 39.8387, 48.7707,  
101.9217

■ 37.3139, 45.1336,  
101.3527

■ 43.1439, 52.9218,  
102.5488

■ 35.3996, 41.9188,  
100.8331

■ 47.3267, 57.6360,  
103.2382

■ 35.3983, 41.9165,  
100.8328

■ 52.4740, 62.9603,  
103.9946

■ 58.6606, 68.9345,  
104.8217

■ 65.9535, 75.5945,  
105.7228

■ 74.4137, 82.9734,  
106.7012

■ 84.0979, 91.1014,  
107.7596

■ 95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

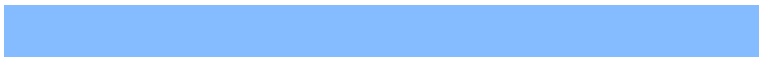
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



34.7944, 48.7707, 80.4832



39.8387, 48.7707, 101.9217



47.1809, 48.7707, 109.2331

# Triad

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



39.8387, 48.7707, 101.9217



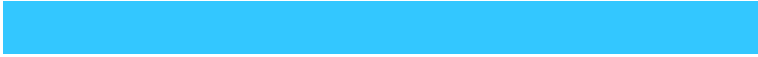
63.1762, 48.7707, 50.7865



38.5672, 48.7707, 24.4337

# Complementary

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



39.8387, 48.7707, 101.9217



47.0974, 32.0180, 6.8320

# 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.



45.5390, 48.7707, 20.5073



39.8387, 48.7707, 101.9217



60.2289, 48.7707, 32.7652

# Square

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



39.8387, 48.7707, 101.9217



61.2117, 48.7707, 75.2289



53.5459, 48.7707, 23.0591



34.1207, 48.7707, 35.8060



# Rectangle

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



39.8387, 48.7707, 101.9217



52.5547, 48.7707, 103.8018



53.5459, 48.7707, 23.0591



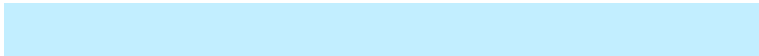
40.6633, 48.7707, 22.3722

# Sweetspot

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



39.8402, 48.7723, 101.9219



70.8794, 79.9280, 106.2996



39.6973, 73.2528, 25.5234



14.5332, 16.5496, 22.6784



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

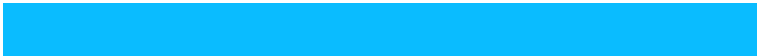


# Same Dimension

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



39.8402, 48.7723, 101.9219



36.1175, 43.1655, 101.0359



23.8416, 16.7751, 96.5891



18.1085, 19.5885, 23.0765



18.6276, 22.1648, 52.7310



1.9051, 2.3408, 5.1647



# Inverse Universe

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



52.7338, 27.7530, 56.6119



50.4059, 25.1035, 49.6509



64.2489, 66.3211, 12.5491



18.5674, 18.2103, 21.6051



26.1906, 12.9655, 25.4517

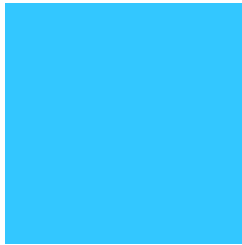


2.5962, 1.2809, 2.7210



# Previews

## White Background



This preview shows how the XYZ color 39.8387, 48.7707, 101.9217 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

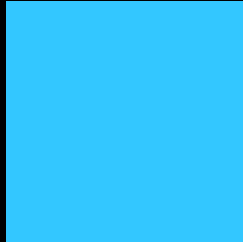
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 39.8387, 48.7707, 101.9217 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

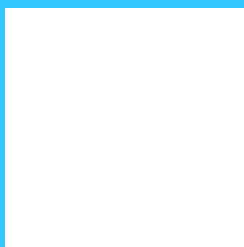
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 39.8387, 48.7707, 101.9217**

## **Background**



This preview shows how black text looks on a background with the XYZ color 39.8387, 48.7707, 101.9217.



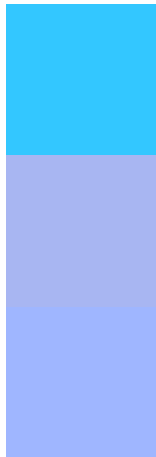
This preview shows how white text looks on a background with the XYZ color 39.8387, 48.7707,



# 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

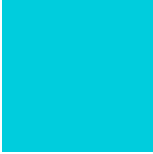
39.8387, 48.7707, 101.9217

### Protanopia

48.9034, 48.1915, 90.7288

### Deuteranopia

49.0760, 48.0468, 101.2951



## **Tritanopia**

34.8825, 48.8831, 76.0035

# Trichromacy



## Original Color

39.8387, 48.7707, 101.9217

## Protanomaly

43.2292, 47.0418, 94.7972

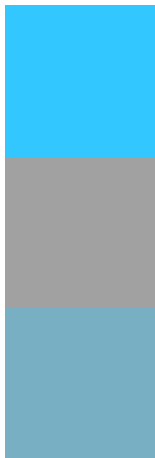
## Deuteranomaly

43.7789, 47.1795, 101.4069

## Tritanomaly

36.3325, 48.7335, 84.5824

# Monochromacy



## Original Color

39.8387, 48.7707, 101.9217

## Achromatopsia

33.8758, 35.6400, 38.8120

## Achromatomaly

33.0655, 38.6650, 57.3501

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 39.8387, 48.7707, 101.9217 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(51, 199, 255)` looks like.

```
.text, #text, p{  
    color:rgb(51, 199, 255)  
}
```

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(51, 199, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 199, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 39.8387, 48.7707, 101.9217 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(51, 199, 255) }
```



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

```
.border{ border-color:rgb(51, 199, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 199, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 199, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 199, 255);  
box-shadow:4px 4px 4px 4px rgb(51, 199,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 39.8387, 48.7707, 101.9217 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 199, 255) }
```

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

```
.background{ background-color: rgb(51, 199,  
255) }
```

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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