

# Converting Colors

XYZ(51.9353, 78.1478, 89.9727)

Have a look what the booklet for  
XYZ(51.9353, 78.1478, 89.9727)  
contains.

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# Color

**XYZ(51.9765, 78.1643,  
90.1897)**

# Conversions

## Conversions Part 1

Format	Color
Hex	33FFEA
RGB	51, 255, 234
RGB Percent	20%, 100%, 92%
CMY	0.7999, 0.0000, 0.0823
CMYK	0.80, 0.00, 0.08, 0.00
HSL	174°, 100%, 60%
HSV	174°, 80%, 100%
XYZ	51.9765, 78.1643, 90.1897
YIQ	191.6100, -114.8430, -49.7790

# Conversions

## Conversions Part 2

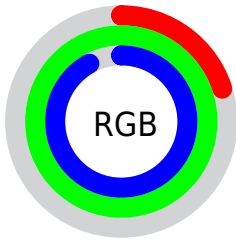
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 159, 255
Decimal	3407850
CIE Lab	90.85, -51.70, -3.60
CIE LCh	91, 51.829, 183.979
Yxy	78.1643, 0.2359, 0.3548
Android (android.graphics.Color)	4281597930 (0xFF33FFEA)
YUV	191.6100, 20.8983, -123.3150
Hunter-Lab	88.4106, -49.7785, 1.4043

# Details

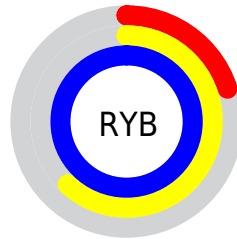
The XYZ color **51.9765, 78.1643, 90.1897** is a light color, and the websafe version is hex **00FFFF**. The color can be described as light washed cyan. A complement of this color would be **43.5946, 24.0970, 8.4866**, and the grayscale version is **49.8079, 52.4018, 57.0655**.

A 20% lighter version of the original color is **63.4829, 83.7265, 107.4227**, and **28.0021, 43.1469, 48.9718** is the 20% darker color. If you saturate the color by 10%, you get **50.6508, 77.5241, 88.1748**, and if you desaturate by 10%, it is **54.0132, 79.1703, 92.2698**.

# Distribution



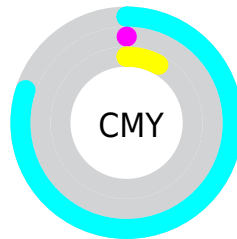
- Red (20%)
- Green (100%)
- Blue (92%)



- Red (20%)
- Yellow (62%)
- Blue (100%)



- Cyan (80%)
- Magenta (0%)
- Yellow (8%)
- Black (0%)



- Cyan (80%)
- Magenta (0%)
- Yellow (8%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 51.9765, 78.1643, 90.1897 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 51.9765, 78.1643, 90.1897 by changing the saturation by 10% instead.





 51.9765, 78.1643,  
90.1897


 51.9765, 78.1643,  
90.1897


384.6713,  
488.7246, 549.2338


 37.2105, 58.2090,  
67.5634


 92.2710, 130.7817,  
149.5397


 25.5450, 41.9767,  
49.0781


 118.5303,  
164.2126, 187.1004

 16.6144, 29.0830,  
34.3154


 149.3513,  
202.9040, 230.4764

 10.0536, 19.1436,  
22.8567

 185.0996,  
247.2405, 280.0862

 5.4970, 11.7741,  
14.2834

226.1404,  
297.6065, 336.3483

 2.5795, 6.5901,  
8.1771

272.8390,

 0.9355, 3.2071,

354.3862, 399.6812

4.1191

325.5609,  
417.9641, 470.5035

■ 0.0000, 1.2408,  
1.6909

■ 0.0000, 0.0946,  
0.3545

■ 51.9765, 78.1643,  
90.1897

■ 51.9765, 78.1643,  
90.1897

■ 50.6508, 77.5241,  
88.1748

■ 54.0132, 79.1703,  
92.2698

■ 49.8684, 77.1634,  
86.2130

■ 56.8584, 80.5925,  
94.4157

■ 49.8680, 77.1632,  
86.2119

■ 60.5978, 82.4751,  
96.6328

■ 65.3051, 84.8559,  
98.9248

71.0465, 87.7692,  
101.2948

77.8823, 91.2460,  
103.7458

85.8681, 95.3150,  
106.2806

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.



53.9571, 78.1643, 57.3255



51.9765, 78.1643, 90.1897



55.3755, 78.1643, 131.8942

# Triad

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



51.9765, 78.1643, 90.1897



89.2100, 78.1643, 159.6465



85.8477, 78.1643, 35.5032

# Complementary

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



51.9765, 78.1643, 90.1897



43.5946, 24.0970, 8.4866

# 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.



97.0916, 78.1643, 50.9446



51.9765, 78.1643, 90.1897



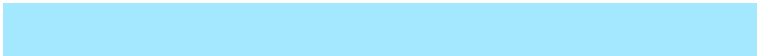
99.1868, 78.1643, 120.6678

# Square

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



51.9765, 78.1643, 90.1897



76.0468, 78.1643, 178.7537



102.2265, 78.1643, 80.2202



72.5661, 78.1643, 31.6809



# Rectangle

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



51.9765, 78.1643, 90.1897



60.4980, 78.1643, 157.4235



102.2265, 78.1643, 80.2202



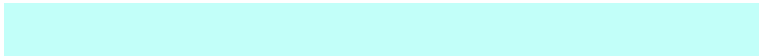
90.0397, 78.1643, 39.2289

# Sweetspot

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



51.9775, 78.1648, 90.1911



75.0090, 89.7837, 102.7541



39.2449, 73.2475, 15.2035



15.5406, 18.9558, 21.8072



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.



51.9775, 78.1648, 90.1911



50.1426, 77.2878, 86.9913



35.0998, 39.2918, 100.3419



18.4695, 20.4473, 22.7754



26.0898, 40.3325, 45.2198



2.5625, 3.9359, 4.5201



# Inverse Universe

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



43.5946, 24.0970, 8.4866



41.6601, 21.6052, 3.5959



49.7157, 37.2548, 7.7043



18.0853, 18.0174, 19.0666



21.6723, 11.1582, 1.6588

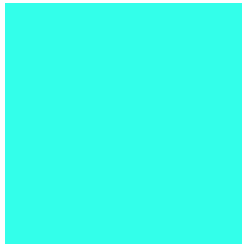


2.1341, 1.0960, 0.2875



# Previews

## White Background



This preview shows how the XYZ color 51.9765, 78.1643, 90.1897 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

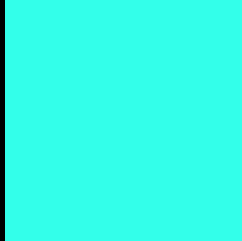
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 51.9765, 78.1643, 90.1897 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

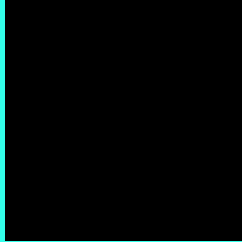
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 51.9765, 78.1643, 90.1897

## Background



This preview shows how black text looks on a background with the XYZ color 51.9765, 78.1643, 90.1897.



This preview shows how white text looks on a background with the XYZ color 51.9765, 78.1643,



# Color Blindness Simulation

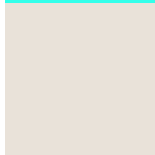
Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy



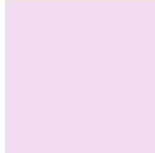
### Original Color

51.9765, 78.1643, 90.1897



### Protanopia

73.3250, 76.7261, 76.5906



### Deuteranopia

78.2382, 76.4744, 94.6419



## Tritanopia

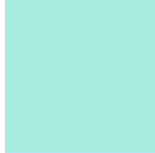
63.3197, 77.6928, 106.2667

# Trichromacy



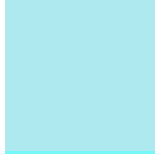
## Original Color

51.9765, 78.1643, 90.1897



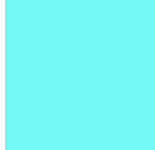
## Protanomaly

59.5398, 74.1116, 80.9789



## Deuteranomaly

61.9525, 73.3941, 92.5626



## Tritanomaly

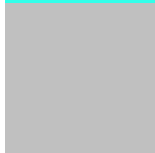
57.3854, 77.0188, 99.8373

# Monochromacy



## Original Color

51.9765, 78.1643, 90.1897



## Achromatopsia

50.1023, 52.7115, 57.4028



## Achromatomaly

46.5474, 58.7686, 67.9216

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 51.9765, 78.1643, 90.1897 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, 255, 234)` looks like.

```
.text, #text, p{  
    color:rgb(51, 255, 234)  
}
```

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, 255, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 255, 234) }
```

## Border

The CSS property to change the border of an element to XYZ 51.9765, 78.1643, 90.1897 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, 255, 234) }
```



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

```
.border{ border-color:rgb(51, 255, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 255, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 255, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 255, 234);  
box-shadow:4px 4px 4px 4px rgb(51, 255,  
234) }
```

# Background

The CSS property to change the background color of an element to XYZ 51.9765, 78.1643, 90.1897 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 255, 234) }
```

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

```
.background{ background-color: rgb(51, 255,  
234) }
```

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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