

# Converting Colors

XYZ(33.9612, 20.1443, 74.5441)

Have a look what the booklet for  
XYZ(33.9612, 20.1443, 74.5441)  
contains.

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# Color

**XYZ(33.9674, 20.1676,  
74.7755)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AD50E3
RGB	173, 80, 227
RGB Percent	68%, 31%, 89%
CMY	0.3216, 0.6863, 0.1098
CMYK	0.24, 0.65, 0.00, 0.11
HSL	278°, 72%, 60%
HSV	278°, 65%, 89%
XYZ	33.9674, 20.1676, 74.7755
YIQ	124.5650, 8.2410, 65.4330

# Conversions

## Conversions Part 2

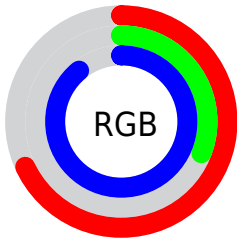
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	173, 80, 227
Decimal	11358435
CIE <sub>Lab</sub>	52.03, 61.61, -59.17
CIE <sub>LCh</sub>	52, 85.417, 316.157
Yxy	20.1676, 0.2635, 0.1564
Android (android.graphics.Color)	4289548515 (0xFFAD50E3)
YUV	124.5650, 50.5005, 42.4775
Hunter-Lab	44.9084, 56.4227, -67.2861

# Details

The XYZ color **33.9674, 20.1676, 74.7755** is a light color, and the websafe version is hex **9933CC**. The color can be described as light muted purple. A complement of this color would be **38.7489, 60.5860, 17.2420**, and the grayscale version is **19.1821, 20.1811, 21.9772**.

A 20% lighter version of the original color is **59.9927, 41.7038, 99.4954**, and **14.7860, 7.1190, 39.1229** is the 20% darker color. If you saturate the color by 10%, you get **30.7907, 16.4657, 74.2288**, and if you desaturate by 10%, it is **37.8222, 25.0526, 75.5156**.

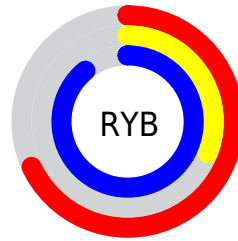
# Distribution



Red (68%)

Green (31%)

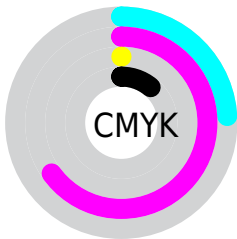
Blue (89%)



Red (68%)

Yellow (31%)

Blue (89%)

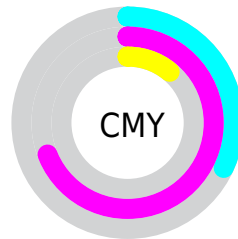


Cyan (24%)

Magenta (65%)

Yellow (0%)

Black (11%)



Cyan (32%)

Magenta (69%)


Yellow (11%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.9674, 20.1676, 74.7755 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 33.9674, 20.1676, 74.7755 by changing the saturation by 10% instead.





 33.9674, 20.1676,  
74.7755

 33.9674, 20.1676,  
74.7755


311.5751,  
252.8210, 496.3804


 23.0313, 12.5169,  
54.9284


 65.2276, 43.6980,  
127.7387


 14.7375, 7.0968,  
38.9462


 86.2824, 60.3465,  
161.6918


 8.7205, 3.5227,  
26.4103


 111.4409, 80.7631,  
201.1841

 4.6149, 1.4103,  
16.9024

 141.0683,  
105.3322, 246.6339

 2.0556, 0.2243,  
10.0037

 175.5301,  
134.4381, 298.4599

 0.6649, 0.0000,  
5.2958

215.1916,

 0.0000, 0.0000,

168.4653, 357.0807

2.3601

260.4182,  
207.7981, 422.9146

■ 0.0000, 0.0000,  
0.7646

■ 0.0000, 0.0000,  
0.0000

■ 33.9674, 20.1676,  
74.7755

■ 33.9674, 20.1676,  
74.7755

■ 30.7907, 16.4657,  
74.2288

■ 37.8222, 25.0526,  
75.5156

■ 28.2280, 13.8254,  
73.8542


■ 42.4053, 31.2215,  
76.4648


■ 26.2059, 12.1014,  
73.6280


■ 47.7649, 38.7665,  
77.6386


■ 25.2997, 11.4408,  
73.5483


■ 53.9438, 47.7705,  
79.0509

 60.9816, 58.3098,  
80.7143

 68.9151, 70.4554,  
82.6404

 77.7788, 84.2734,  
84.8404

 85.4624, 95.5409,  
86.6103

 88.3543, 97.0317,  
86.7456

# Harmonies

## Analogous

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



24.2185, 20.1676, 107.7918



33.9674, 20.1676, 74.7755



40.4687, 20.1676, 35.5543

# Triad

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



33.9674, 20.1676, 74.7755



23.4626, 20.1676, 0.4729



7.1605, 20.1676, 38.1982

# Complementary

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



33.9674, 20.1676, 74.7755



38.7489, 60.5860, 17.2420

# 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.



7.0701, 20.1676, 12.3642



33.9674, 20.1676, 74.7755



14.8747, 20.1676, 0.5353

# Square

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



33.9674, 20.1676, 74.7755



33.2716, 20.1676, 2.3495



9.4471, 20.1676, 2.6720



9.7488, 20.1676, 77.9200



# Rectangle

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



33.9674, 20.1676, 74.7755



41.1138, 20.1676, 17.2047



9.4471, 20.1676, 2.6720



6.8714, 20.1676, 27.5173

# Sweetspot

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



33.9683, 20.1684, 74.7760



75.2467, 69.6673, 104.0889



26.0275, 24.9593, 76.1192



15.5471, 14.0766, 22.1476



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.



33.9683, 20.1684, 74.7760



38.7455, 19.9954, 96.4251



46.1618, 26.7144, 63.5987



14.4549, 14.3368, 18.1497



14.8873, 6.7406, 42.8996



1.2015, 0.5504, 3.1749



# Inverse Universe

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



38.8507, 23.7899, 25.0987



46.6323, 25.6874, 23.3262



32.9425, 57.5100, 20.7109



14.5948, 14.4551, 16.0664



19.4458, 9.9125, 5.9764

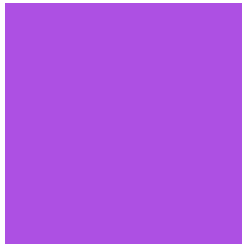


1.4805, 0.7499, 0.6710



# Previews

## White Background



This preview shows how the XYZ color 33.9674, 20.1676, 74.7755 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

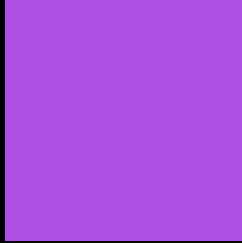
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.9674, 20.1676, 74.7755 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

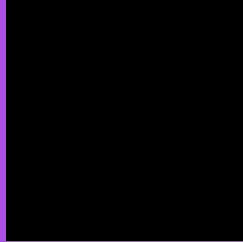
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.9674, 20.1676, 74.7755**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.9674, 20.1676, 74.7755.



This preview shows how white text looks on a background with the XYZ color 33.9674, 20.1676,



# 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

33.9674, 20.1676, 74.7755

### Protanopia

24.6059, 20.5887, 96.4431

### Deuteranopia

21.1544, 20.5191, 69.1753



## Tritanopia

22.9557, 20.0367, 20.7467

# Trichromacy



## Original Color

33.9674, 20.1676, 74.7755



## Protanomaly

23.4306, 17.6916, 87.7678



## Deuteranomaly

22.8342, 18.3819, 70.7512



## Tritanomaly

25.8026, 19.3338, 35.6296

# Monochromacy



## Original Color

33.9674, 20.1676, 74.7755



## Achromatopsia

19.4927, 20.5079, 22.3331



## Achromatomaly

23.1456, 19.2967, 36.6871

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.9674, 20.1676, 74.7755 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(173, 80, 227)` looks like.

```
.text, #text, p{  
    color:rgb(173, 80, 227)  
}
```

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(173, 80, 227) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(173, 80, 227) }
```

## Border

The CSS property to change the border of an element to XYZ 33.9674, 20.1676, 74.7755 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(173, 80, 227) }
```



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

```
.border{ border-color:rgb(173, 80, 227) }
```

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

Here you see how a box with a 4 pixel rgb(173, 80, 227) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(173, 80, 227); -webkit-box-  
shadow:4px 4px 4px 4px rgb(173, 80, 227);  
box-shadow:4px 4px 4px 4px rgb(173, 80,  
227) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.9674, 20.1676, 74.7755 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(173, 80, 227) }
```

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

```
.background{ background-color: rgb(173, 80,  
227) }
```

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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