

# Converting Colors

XYZ(34.0688, 20.5649, 83.1001)

Have a look what the booklet for  
XYZ(34.0688, 20.5649, 83.1001)  
contains.

<b>XYZ(33.9910, 20.5626, 83.0664)</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(33.9910, 20.5626,  
83.0664)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A455EE
RGB	164, 85, 238
RGB Percent	64%, 33%, 93%
CMY	0.3568, 0.6667, 0.0667
CMYK	0.31, 0.64, 0.00, 0.07
HSL	271°, 82%, 63%
HSV	271°, 64%, 93%
XYZ	33.9910, 20.5626, 83.0664
YIQ	126.0630, -2.0290, 64.3310

# Conversions

## Conversions Part 2

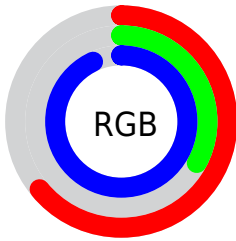
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 85, 238
Decimal	10769902
CIELab	52.47, 59.79, -64.70
CIELCh	52, 88.094, 312.740
Yxy	20.5626, 0.2470, 0.1494
Android (android.graphics.Color)	4288959982 (0xFFA455EE)
YUV	126.0630, 55.1849, 33.2707
Hunter-Lab	45.3460, 54.4467, -76.8673

# Details

The XYZ color **33.9910, 20.5626, 83.0664** is a light color, and the websafe version is hex **9966FF**. The color can be described as light muted purple. A complement of this color would be **46.5125, 69.1762, 19.4957**, and the grayscale version is **19.6724, 20.6969, 22.5389**.

A 20% lighter version of the original color is **57.7140, 41.3732, 99.5517**, and **14.7237, 7.2791, 44.3450** is the 20% darker color. If you saturate the color by 10%, you get **30.1536, 16.2552, 82.4377**, and if you desaturate by 10%, it is **38.6751, 26.2418, 83.9161**.

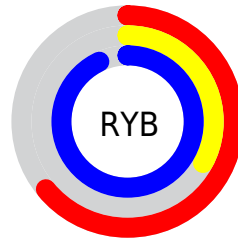
# Distribution



Red (64%)

Green (33%)

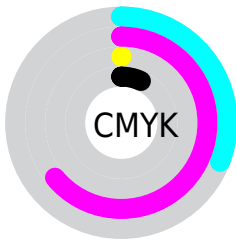
Blue (93%)



Red (64%)

Yellow (33%)

Blue (93%)

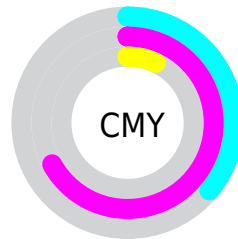


Cyan (31%)

Magenta (64%)

Yellow (0%)

Black (7%)



Cyan (36%)

Magenta (67%)


Yellow (7%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.9910, 20.5626, 83.0664 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 33.9910, 20.5626, 83.0664 by changing the saturation by 10% instead.





 33.9910, 20.5626,  
83.0664


 33.9910, 20.5626,  
83.0664


311.6785,  
254.9447, 525.1846

 23.0495, 12.8047,  
61.7040


 65.2641, 44.3584,  
139.5185


 14.7510, 7.2942,  
44.3593


 86.3264, 61.1651,  
175.4453

 8.7300, 3.6467,  
30.6138


 111.4930, 81.7568,  
217.0640

 4.6212, 1.4780,  
20.0490

 141.1293,  
106.5180, 264.7931

 2.0592, 0.2732,  
12.2462

175.6007,  
135.8329, 319.0512

 0.6669, 0.0000,  
6.7870

215.2724,

 0.0000, 0.0000,

170.0861, 380.2568

3.2528

260.5099,  
209.6619, 448.8284

■ 0.0000, 0.0000,  
1.2251

■ 0.0000, 0.0000,  
0.0000

■ 33.9910, 20.5626,  
83.0664

■ 33.9910, 20.5626,  
83.0664

■ 30.1536, 16.2552,  
82.4377

■ 38.6751, 26.2418,  
83.9161

■ 27.0883, 13.1825,  
82.0061

■ 44.2656, 33.4075,  
85.0046

■ 24.7094, 11.1807,  
81.7451

■ 50.8191, 42.1641,  
86.3494

■ 23.5857, 10.3761,  
81.6490

■ 58.3866, 52.6060,  
87.9660

67.0151, 64.8199,  
89.8688

76.7485, 78.8866,  
92.0709

87.6280, 94.8815,  
94.5848

92.4327, 98.9531,  
95.1175

# Harmonies

## Analogous

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



23.6633, 20.5626, 115.5012



33.9910, 20.5626, 83.0664



41.4752, 20.5626, 40.7982

# Triad

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



33.9910, 20.5626, 83.0664



25.2108, 20.5626, 0.4428



6.9609, 20.5626, 35.3614

# Complementary

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



33.9910, 20.5626, 83.0664



46.5125, 69.1762, 19.4957

# 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.



7.1420, 20.5626, 10.5666



33.9910, 20.5626, 83.0664



15.9331, 20.5626, 0.3171

# Square

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



33.9910, 20.5626, 83.0664



35.4225, 20.5626, 2.6915



9.9099, 20.5626, 2.0663



9.3020, 20.5626, 76.5444



# Rectangle

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



33.9910, 20.5626, 83.0664



42.7567, 20.5626, 20.0778



9.9099, 20.5626, 2.0663



6.7565, 20.5626, 24.8714

# Sweetspot

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



33.9919, 20.5633, 83.0669



73.3924, 68.7114, 104.0022



32.0119, 33.7699, 85.7204



15.0984, 13.8453, 22.1266



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.



33.9919, 20.5633, 83.0669



34.1004, 17.7894, 96.2441



53.9415, 30.8477, 84.0005



15.6758, 15.6301, 19.9123



13.3087, 5.8663, 45.5587



1.2220, 0.5472, 3.7954



# Inverse Universe

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



44.7667, 27.1778, 35.6870



48.5867, 26.6723, 32.9911



35.9610, 63.7367, 19.0019



16.0913, 15.8862, 18.0370



21.4662, 10.8589, 10.3713

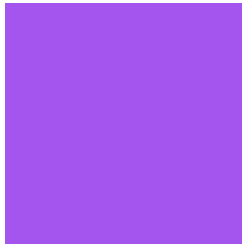


1.8358, 0.9234, 1.1264



# Previews

## White Background



This preview shows how the XYZ color 33.9910, 20.5626, 83.0664 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

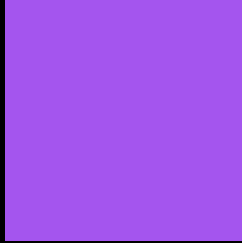
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 33.9910, 20.5626, 83.0664 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

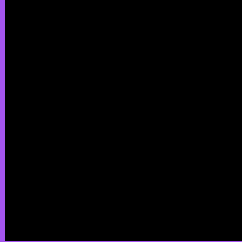
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.9910, 20.5626, 83.0664**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.9910, 20.5626, 83.0664.



This preview shows how white text looks on a background with the XYZ color 33.9910, 20.5626,



# 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

33.9910, 20.5626, 83.0664

### Protanopia

25.1368, 21.0233, 97.3408

### Deuteranopia

21.3098, 20.8746, 74.1402



## Tritanopia

21.6369, 20.3288, 22.8621

# Trichromacy



## Original Color

33.9910, 20.5626, 83.0664



## Protanomaly

25.0600, 18.9043, 91.9506



## Deuteranomaly

21.9406, 18.2622, 77.2315



## Tritanomaly

24.8916, 19.6774, 39.0454

# Monochromacy



## Original Color

33.9910, 20.5626, 83.0664



## Achromatopsia

19.8309, 20.8637, 22.7206



## Achromatomaly

23.4747, 19.7343, 39.1311

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.9910, 20.5626, 83.0664 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(164, 85, 238)` looks like.

```
.text, #text, p{  
    color:rgb(164, 85, 238)  
}
```

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(164, 85, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 85, 238) }
```

## Border

The CSS property to change the border of an element to XYZ 33.9910, 20.5626, 83.0664 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(164, 85, 238) }
```



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

```
.border{ border-color:rgb(164, 85, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 85, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 85, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 85, 238);  
box-shadow:4px 4px 4px 4px rgb(164, 85,  
238) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.9910, 20.5626, 83.0664 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 85, 238) }
```

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

```
.background{ background-color: rgb(164, 85,  
238) }
```

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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