

# Converting Colors

XYZ(33.6868, 25.4167, 65.4283)

Have a look what the booklet for  
XYZ(33.6868, 25.4167, 65.4283)  
contains.

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# Color

**XYZ(33.7620, 25.4754,  
65.4251)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A575D4
RGB	165, 117, 212
RGB Percent	65%, 46%, 83%
CMY	0.3529, 0.5412, 0.1686
CMYK	0.22, 0.45, 0.00, 0.17
HSL	270°, 52%, 65%
HSV	270°, 45%, 83%
XYZ	33.7620, 25.4754, 65.4251
YIQ	142.1820, -1.8870, 39.7210

# Conversions

## Conversions Part 2

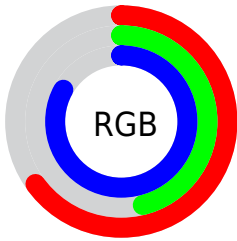
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	165, 117, 212
Decimal	10843604
CIE Lab	57.54, 37.14, -41.98
CIE LCh	58, 56.054, 311.499
Yxy	25.4754, 0.2708, 0.2044
Android (android.graphics.Color)	4289033684 (0xFFA575D4)
YUV	142.1820, 34.4203, 20.0114
Hunter-Lab	50.4732, 31.0724, -41.5226

# Details

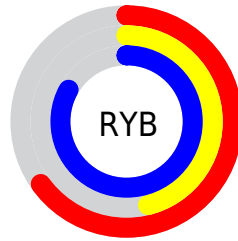
The XYZ color **33.7620, 25.4754, 65.4251** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **42.0649, 56.2644, 25.4737**, and the grayscale version is **25.6526, 26.9885, 29.3905**.

A 20% lighter version of the original color is **62.5489, 51.4990, 101.2514**, and **14.6485, 9.8281, 33.0232** is the 20% darker color. If you saturate the color by 10%, you get **29.4731, 20.0039, 64.5955**, and if you desaturate by 10%, it is **38.7910, 32.1597, 66.4507**.

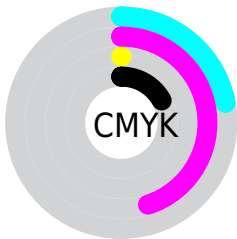
# Distribution



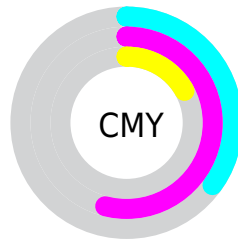
- Red (65%)
- Green (46%)
- Blue (83%)



- Red (65%)
- Yellow (46%)
- Blue (83%)



- Cyan (22%)
- Magenta (45%)
- Yellow (0%)
- Black (17%)



- Cyan (35%)
- Magenta (54%)
- Yellow (17%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.7620, 25.4754, 65.4251 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 33.7620, 25.4754, 65.4251 by changing the saturation by 10% instead.



■ 33.7620, 25.4754,  
65.4251

■ 33.7620, 25.4754,  
65.4251

310.6741,  
280.1973, 462.6660

■ 22.8728, 16.4316,  
47.3523

■ 64.9101, 52.4274,  
114.2799

■ 14.6198, 9.8301,  
32.9579

■ 85.8998, 71.1044,  
145.8991

■ 8.6376, 5.2864,  
21.8234

■ 110.9871, 93.7613,  
182.8707

■ 4.5608, 2.4163,  
13.5301

140.5372,  
120.7824, 225.6135

■ 2.0240, 0.8343,  
7.6596

174.9157,  
152.5522, 274.5458

■ 0.6474, 0.0000,  
3.7933

214.4877,

■ 0.0000, 0.0000,

189.4550, 330.0863

1.5126

259.6188,  
231.8752, 392.6535

■ 0.0000, 0.0000,  
0.2273

■ 0.0000, 0.0000,  
0.0000

■ 33.7620, 25.4754,  
65.4251

■ 33.7620, 25.4754,  
65.4251

■ 29.4731, 20.0039,  
64.5955

■ 38.7910, 32.1597,  
66.4507

■ 25.8791, 15.6636,  
63.9471

■ 44.5960, 40.1252,  
67.6822


■ 22.9332, 12.3670,  
63.4661


■ 51.2138, 49.4387,  
69.1311


■ 20.5811, 10.0121,  
63.1355


■ 58.6779, 60.1614,  
70.8074


 18.7571, 8.4745,  
62.9349


 67.0198, 72.3506,  
72.7205

 17.9612, 7.8866,  
62.8633

 76.2692, 86.0604,  
74.8792

 83.0451, 94.5236,  
76.1557

 86.6783, 96.3965,  
76.3257

 88.8837, 97.5335,  
76.4289

# Harmonies

## Analogous

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



26.8658, 25.4754, 81.6658



33.7620, 25.4754, 65.4251



38.5532, 25.4754, 41.1275

# Triad

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



33.7620, 25.4754, 65.4251



28.5231, 25.4754, 5.4326



13.6807, 25.4754, 35.7379

# Complementary

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



33.7620, 25.4754, 65.4251



42.0649, 56.2644, 25.4737

# 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.



13.9601, 25.4754, 17.6250



33.7620, 25.4754, 65.4251



21.7419, 25.4754, 5.0498

# Square

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



33.7620, 25.4754, 65.4251



35.1657, 25.4754, 9.8047



16.6601, 25.4754, 8.3005



15.8103, 25.4754, 59.9549



# Rectangle

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



33.7620, 25.4754, 65.4251



39.4595, 25.4754, 26.7872



16.6601, 25.4754, 8.3005



13.5082, 25.4754, 28.7119

# Sweetspot

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



33.7629, 25.4764, 65.4257



79.5930, 77.6640, 105.4034



32.5858, 35.2666, 67.3774



16.5226, 15.8918, 22.4465



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.



33.7629, 25.4764, 65.4257



44.9093, 30.5617, 98.1398



45.3970, 31.4740, 65.9701



12.3347, 12.3139, 15.6642



11.2041, 4.9285, 38.8139



0.7712, 0.3465, 2.3455



# Inverse Universe

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



40.2142, 29.4009, 38.6781



56.4382, 37.5733, 50.4121



34.0913, 52.1538, 25.1005



12.6768, 12.5222, 14.2384



18.3828, 9.2894, 9.3199

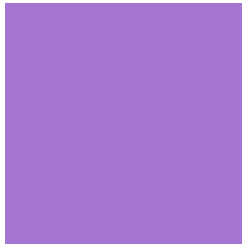


1.1505, 0.5770, 0.7821



# Previews

## White Background



This preview shows how the XYZ color 33.7620, 25.4754, 65.4251 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

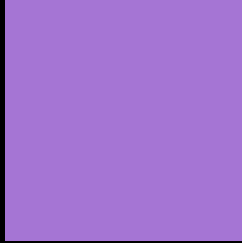
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.7620, 25.4754, 65.4251 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

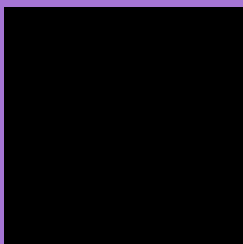
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.7620, 25.4754, 65.4251**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.7620, 25.4754, 65.4251.



This preview shows how white text looks on a background with the XYZ color 33.7620, 25.4754,



# 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

33.7620, 25.4754, 65.4251

### Protanopia

28.0344, 25.6961, 76.8811

### Deuteranopia

26.4175, 25.7952, 63.2611



## Tritanopia

26.4823, 25.5305, 29.5187

# Trichromacy



## Original Color

33.7620, 25.4754, 65.4251



## Protanomaly

29.2162, 24.9974, 72.3924



## Deuteranomaly

28.2437, 25.0807, 63.6741



## Tritanomaly

28.5619, 25.1740, 40.3995

# Monochromacy



## Original Color

33.7620, 25.4754, 65.4251



## Achromatopsia

25.7108, 27.0498, 29.4572



## Achromatomaly

27.9403, 26.0491, 40.1146

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.7620, 25.4754, 65.4251 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(165, 117, 212)` looks like.

```
.text, #text, p{  
    color:rgb(165, 117, 212)  
}
```

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(165, 117, 212) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(165, 117, 212) }
```

## Border

The CSS property to change the border of an element to XYZ 33.7620, 25.4754, 65.4251 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(165, 117, 212) }
```



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

```
.border{ border-color:rgb(165, 117, 212) }
```

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

Here you see how a box with a 4 pixel `rgb(165, 117, 212)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(165, 117, 212); -webkit-box-  
shadow:4px 4px 4px 4px rgb(165, 117, 212);  
box-shadow:4px 4px 4px 4px rgb(165, 117,  
212) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.7620, 25.4754, 65.4251 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(165, 117, 212) }
```

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

```
.background{ background-color: rgb(165,  
117, 212) }
```

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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