

# Converting Colors

XYZ(33.7713, 17.6397, 84.8455)

Have a look what the booklet for  
XYZ(33.7713, 17.6397, 84.8455)  
contains.

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# Color

**XYZ(33.8689, 17.7253,  
84.8553)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA38F1
RGB	170, 56, 241
RGB Percent	67%, 22%, 95%
CMY	0.3333, 0.7804, 0.0549
CMYK	0.29, 0.77, 0.00, 0.05
HSL	277°, 87%, 58%
HSV	277°, 77%, 95%
XYZ	33.8689, 17.7253, 84.8553
YIQ	111.1760, 8.5590, 81.7030

# Conversions

## Conversions Part 2

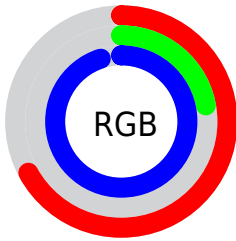
Format	Color
R <sub>Y</sub> B	170, 56, 241
Decimal	11155697
CIE Lab	49.16, 73.61, -71.70
CIE LCh	49, 102.762, 315.753
Yxy	17.7253, 0.2482, 0.1299
Android (android.graphics.Color)	4289345777 (0xFFAA38F1)
YUV	111.1760, 64.0032, 51.5886
Hunter-Lab	42.1014, 69.9186, -90.0278

# Details

The XYZ color **33.8689, 17.7253, 84.8553** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **40.9218, 67.7085, 14.6540**, and the grayscale version is **14.9798, 15.7600, 17.1626**.

A 20% lighter version of the original color is **56.8139, 36.3045, 98.6208**, and **15.2073, 6.8402, 45.8662** is the 20% darker color. If you saturate the color by 10%, you get **31.0396, 14.9302, 84.4653**, and if you desaturate by 10%, it is **37.4022, 21.7171, 85.4399**.

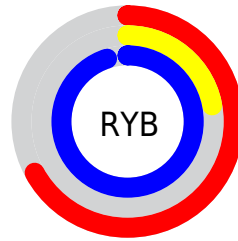
# Distribution



Red (67%)

Green (22%)

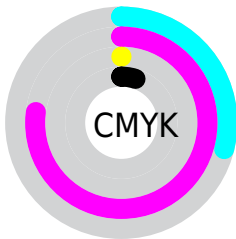
Blue (95%)



Red (67%)

Yellow (22%)

Blue (95%)

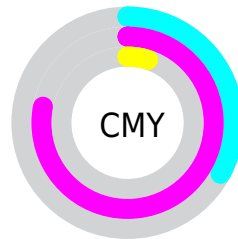


Cyan (29%)

Magenta (77%)

Yellow (0%)

Black (5%)



Cyan (33%)

Magenta (78%)


Yellow (5%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.8689, 17.7253, 84.8553 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 33.8689, 17.7253, 84.8553 by changing the saturation by 10% instead.





 33.8689, 17.7253,  
84.8553


 33.8689, 17.7253,  
84.8553


311.1433,  
239.3181, 531.2812


 22.9553, 10.7529,  
63.1724


 65.0754, 39.5687,  
142.0434


 14.6810, 5.9010,  
45.5388


 86.0990, 55.2085,  
178.3856


 8.6807, 2.7850,  
31.5360


 111.2233, 74.5063,  
220.4513

 4.5889, 1.0205,  
20.7454

 140.8138, 97.8464,  
268.6590

 2.0404, 0.0000,  
12.7486

 175.2356,  
125.6132, 323.4273

 0.6565, 0.0000,  
7.1270

214.8542,

 0.0000, 0.0000,

158.1912, 385.1748

3.4620

260.0350,  
195.9647, 454.3199

■ 0.0000, 0.0000,  
1.3351

■ 0.0000, 0.0000,  
0.0903

■ 33.8689, 17.7253,  
84.8553

■ 33.8689, 17.7253,  
84.8553

■ 31.0396, 14.9302,  
84.4653

■ 37.4022, 21.7171,  
85.4399

■ 28.8184, 13.1480,  
84.2383


■ 41.7107, 27.0476,  
86.2417


■ 28.1825, 12.6945,  
84.1843


■ 46.8589, 33.8403,  
87.2815


■ 52.9029, 42.2037,  
88.5773

 59.8937, 52.2360,  
90.1452

 67.8780, 64.0270,  
92.0003

 76.8995, 77.6600,  
94.1563

 86.9987, 93.2130,  
96.6260

 92.2342, 98.7994,  
97.4283

# Harmonies

## Analogous

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



22.3828, 17.7253, 128.3095



33.8689, 17.7253, 84.8553



41.8780, 17.7253, 35.4881

# Triad

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



33.8689, 17.7253, 84.8553



21.8206, 17.7253, 0.0000



4.5813, 17.7253, 37.5434

# Complementary

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



33.8689, 17.7253, 84.8553



40.9218, 67.7085, 14.6540

# 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.



4.5287, 17.7253, 8.9798



33.8689, 17.7253, 84.8553



12.3092, 17.7253, 0.0000

# Square

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



33.8689, 17.7253, 84.8553



33.3247, 17.7253, 0.7794



6.7693, 17.7253, 0.9129



6.9581, 17.7253, 87.5228



# Rectangle

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



33.8689, 17.7253, 84.8553



42.7569, 17.7253, 14.4633



6.7693, 17.7253, 0.9129



4.3335, 17.7253, 25.1097

# Sweetspot

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



33.8698, 17.7259, 84.8557



71.3075, 64.0961, 103.2212



25.4912, 23.1575, 86.3457



14.5866, 12.7290, 21.9381



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.



33.8698, 17.7259, 84.8557



33.8173, 15.7303, 95.8616



50.9421, 26.8303, 71.9534



15.8326, 15.7109, 19.9197



15.4378, 6.9639, 45.6584



1.3949, 0.6364, 3.8035



# Inverse Universe

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



41.5209, 23.0618, 22.3418



44.3354, 22.9098, 16.9612



34.3395, 64.2529, 17.1599



16.0238, 15.8592, 17.6818



20.7916, 10.5891, 6.8190

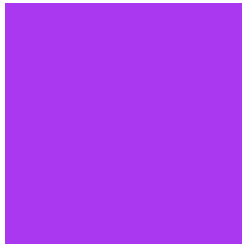


1.7768, 0.8998, 0.8155



# Previews

## White Background



This preview shows how the XYZ color 33.8689, 17.7253, 84.8553 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

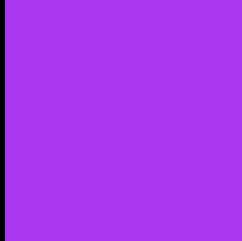
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.8689, 17.7253, 84.8553 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

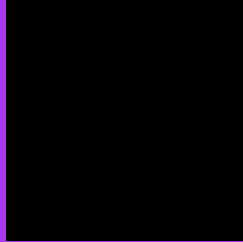
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.8689, 17.7253, 84.8553**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.8689, 17.7253, 84.8553.



This preview shows how white text looks on a background with the XYZ color 33.8689, 17.7253,

84.8553.

# 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

33.8689, 17.7253, 84.8553

### Protanopia

21.3377, 17.9833, 83.2354

### Deuteranopia

18.1016, 17.9870, 62.1923



## Tritanopia

20.2450, 17.5913, 17.9512

# Trichromacy



## Original Color

33.8689, 17.7253, 84.8553



## Protanomaly

21.3937, 14.9104, 83.4118



## Deuteranomaly

19.1796, 14.7408, 69.5445



## Tritanomaly

23.4637, 16.4224, 35.1909

# Monochromacy



## Original Color

33.8689, 17.7253, 84.8553



## Achromatopsia

15.1092, 15.8961, 17.3108



## Achromatomaly

19.4284, 14.8563, 34.1913

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.8689, 17.7253, 84.8553 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(170, 56, 241)` looks like.

```
.text, #text, p{  
  color:rgb(170, 56, 241)  
}
```

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(170, 56, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 56, 241) }
```

## Border

The CSS property to change the border of an element to XYZ 33.8689, 17.7253, 84.8553 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(170, 56, 241) }
```



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

```
.border{ border-color:rgb(170, 56, 241) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 56, 241)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 56, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 56, 241);  
box-shadow:4px 4px 4px 4px rgb(170, 56,  
241) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.8689, 17.7253, 84.8553 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 56, 241) }
```

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

```
.background{ background-color: rgb(170, 56,  
241) }
```

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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