

Converting Colors

XYZ(33.5200, 15.8333, 87.5166)

Have a look what the booklet for
XYZ(33.5200, 15.8333, 87.5166)
contains.

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Color

**XYZ(33.5824, 15.8633,
87.6781)**

Conversions

Conversions Part 1

Format	Color
Hex	AB17F5
RGB	171, 23, 245
RGB Percent	67%, 9%, 96%
CMY	0.3294, 0.9098, 0.0392
CMYK	0.30, 0.91, 0.00, 0.04
HSL	280°, 92%, 53%
HSV	280°, 91%, 96%
XYZ	33.5824, 15.8633, 87.6781
YIQ	92.5600, 16.9460, 100.4180

Conversions

Conversions Part 2

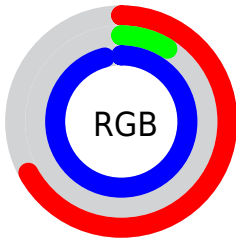
Format	Color
R_{YB}	171, 23, 245
Decimal	11212789
CIE _{Lab}	46.79, 82.81, -77.80
CIE _{LCh}	47, 113.626, 316.786
Yxy	15.8633, 0.2449, 0.1157
Android (android.graphics.Color)	4289402869 (0xFFAB17F5)
YUV	92.5600, 75.1529, 68.7919
Hunter-Lab	39.8288, 80.8055, -102.6395

Details

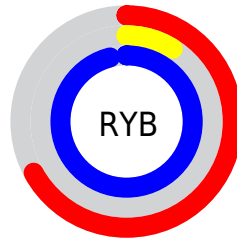
The XYZ color **33.5824, 15.8633, 87.6781** is a dark color, and the websafe version is hex **9933FF**. The color can be described as middle washed purple. A complement of this color would be **37.7371, 67.9084, 11.9295**, and the grayscale version is **10.1319, 10.6596, 11.6083**.

A 20% lighter version of the original color is **55.5116, 32.7415, 98.0017**, and **15.4000, 6.9029, 47.5344** is the 20% darker color. If you saturate the color by 10%, you get **31.6545, 14.4146, 87.5004**, and if you desaturate by 10%, it is **36.1479, 18.2701, 88.0078**.

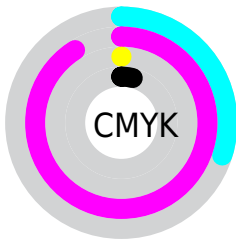
Distribution



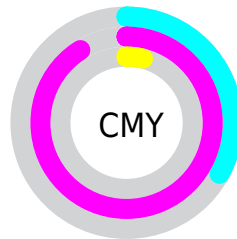
- Red (67%)
- Green (9%)
- Blue (96%)



- Red (67%)
- Yellow (9%)
- Blue (96%)



- Cyan (30%)
- Magenta (91%)
- Yellow (0%)
- Black (4%)





- Cyan (33%)
- Magenta (91%)
- Yellow (4%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.5824, 15.8633, 87.6781 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 33.5824, 15.8633, 87.6781 by changing the saturation by 10% instead.


 33.5824, 15.8633,
87.6781


 33.5824, 15.8633,
87.6781

309.8847,
228.5337, 540.8225


 22.7343, 9.4275,
65.4937


 64.6324, 36.3607,
146.0161


 14.5171, 5.0210,
47.4076


 85.5650, 51.1911,
183.0068


 8.5653, 2.2596,
33.0014


 110.5898, 69.5885,
225.7700

 4.5136, 0.7522,
21.8564

 140.0722, 91.9372,
274.7242

 1.9966, 0.0000,
13.5541

 174.3775,
118.6217, 330.2881

 0.6320, 0.0000,
7.6760

 213.8712,

 0.0000, 0.0000,

150.0264, 392.8800

3.8035

258.9185,
186.5356, 462.9186

■ 0.0000, 0.0000,
1.5182

■ 0.0000, 0.0000,
0.2314

■ 33.5824, 15.8633,
87.6781

■ 33.5824, 15.8633,
87.6781

■ 31.6545, 14.4146,
87.5004

■ 36.1479, 18.2701,
88.0078

■ 39.3750, 21.8351,
88.5258

■ 43.3463, 26.7198,
89.2593

■ 48.1306, 33.0590,
90.2308

■ 53.7881, 40.9705,
91.4596

■ 60.3729, 50.5596,
92.9635

■ 67.9341, 61.9226,
94.7582

■ 76.5176, 75.1481,
96.8586

■ 86.1658, 90.3190,
99.2784

Harmonies

Analogous

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



21.2532, 15.8633, 139.1723



33.5824, 15.8633, 87.6781



42.1476, 15.8633, 32.9243

Triad

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



33.5824, 15.8633, 87.6781



19.8480, 15.8633, 0.0000



3.2257, 15.8633, 38.2190

Complementary

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



33.5824, 15.8633, 87.6781



37.7371, 67.9084, 11.9295

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.



3.1174, 15.8633, 7.5851



33.5824, 15.8633, 87.6781



10.2317, 15.8633, 0.0000

Square

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



33.5824, 15.8633, 87.6781



32.1751, 15.8633, 0.0000



5.0409, 15.8633, 0.2012



5.4549, 15.8633, 94.9502

Rectangle

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



33.5824, 15.8633, 87.6781



42.8856, 15.8633, 11.6105



5.0409, 15.8633, 0.2012



2.9899, 15.8633, 24.5281

Sweetspot

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



33.5833, 15.8638, 87.6785



68.9356, 59.5653, 102.4717



21.1099, 15.3247, 88.2318



14.1739, 11.8840, 21.7967



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.



33.5833, 15.8638, 87.6785



34.6280, 15.7663, 95.8258



49.3481, 24.5796, 61.8185



16.6457, 16.4755, 20.8453



17.2057, 7.8442, 47.1453



1.6209, 0.7454, 4.1487

Inverse Universe

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



40.1205, 20.8886, 13.2268



42.8796, 21.9158, 10.5641



33.8217, 65.8135, 15.1961



16.7269, 16.5736, 18.3087



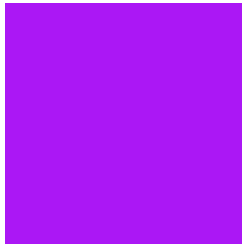
21.1570, 10.8062, 5.5351



1.9052, 0.9681, 0.7274

Previews

White Background



This preview shows how the XYZ color 33.5824, 15.8633, 87.6781 looks on a white background.

Color Contrast Check

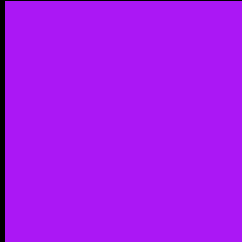
Large Text (above 18pt) WCAG AA ✓ Pass

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 33.5824, 15.8633, 87.6781 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

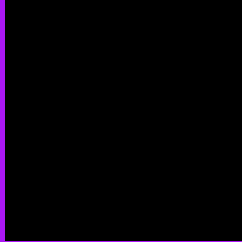
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 33.5824, 15.8633, 87.6781

Background



This preview shows how black text looks on a background with the XYZ color 33.5824, 15.8633, 87.6781.



This preview shows how white text looks on a background with the XYZ color 33.5824, 15.8633,

87.6781.

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

33.5824, 15.8633, 87.6781

Protanopia

19.2277, 16.2712, 74.8003

Deuteranopia

16.0954, 16.0658, 55.0760



Tritanopia

18.8571, 15.7724, 15.4151

Trichromacy



Original Color

33.5824, 15.8633, 87.6781



Protanomaly

19.4918, 12.2724, 79.1834



Deuteranomaly

17.0666, 11.7640, 64.9895



Tritanomaly

21.9012, 13.8485, 32.9712

Monochromacy



Original Color

33.5824, 15.8633, 87.6781



Achromatopsia

10.4043, 10.9462, 11.9204



Achromatomaly

15.2976, 10.3373, 29.2060

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.5824, 15.8633, 87.6781 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(171, 23, 245)` looks like.

```
.text, #text, p{  
    color:rgb(171, 23, 245)  
}
```

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(171, 23, 245) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 23, 245) }
```

Border

The CSS property to change the border of an element to XYZ 33.5824, 15.8633, 87.6781 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(171, 23, 245) }
```


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

```
.border{ border-color:rgb(171, 23, 245) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 23, 245)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 23, 245); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 23, 245);  
box-shadow:4px 4px 4px 4px rgb(171, 23,  
245) }
```

Background

The CSS property to change the background color of an element to XYZ 33.5824, 15.8633, 87.6781 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 23, 245) }
```

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

```
.background{ background-color: rgb(171, 23,  
245) }
```

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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