

Converting Colors

XYZ(34.8963, 20.8510, 80.5280)

Have a look what the booklet for
XYZ(34.8963, 20.8510, 80.5280)
contains.

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Color

**XYZ(34.8832, 20.8426,
80.7817)**

Conversions

Conversions Part 1

Format	Color
Hex	AB53EB
RGB	171, 83, 235
RGB Percent	67%, 33%, 92%
CMY	0.3294, 0.6745, 0.0784
CMYK	0.27, 0.65, 0.00, 0.08
HSL	275°, 79%, 62%
HSV	275°, 65%, 92%
XYZ	34.8832, 20.8426, 80.7817
YIQ	126.6400, 3.6560, 65.9280

Conversions

Conversions Part 2

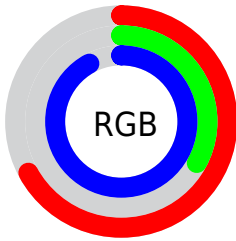
Format	Color
R_{YB}	171, 83, 235
Decimal	11228139
CIE _{Lab}	52.78, 61.53, -62.48
CIE _{LCh}	53, 87.689, 314.564
Yxy	20.8426, 0.2555, 0.1527
Android (android.graphics.Color)	4289418219 (0xFFAB53EB)
YUV	126.6400, 53.4215, 38.9037
Hunter-Lab	45.6537, 56.4948, -72.9528

Details

The XYZ color **34.8832, 20.8426, 80.7817** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **43.3026, 66.2446, 18.6884**, and the grayscale version is **19.8726, 20.9075, 22.7683**.

A 20% lighter version of the original color is **59.6288, 41.9343, 99.5591**, and **15.1726, 7.3783, 42.7440** is the 20% darker color. If you saturate the color by 10%, you get **31.3052, 16.7664, 80.1839**, and if you desaturate by 10%, it is **39.2335, 26.2216, 81.5911**.

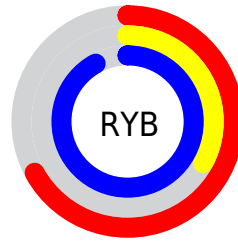
Distribution



Red (67%)

Green (33%)

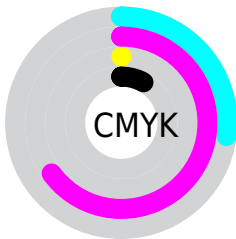
Blue (92%)



Red (67%)

Yellow (33%)

Blue (92%)

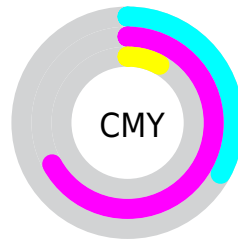


Cyan (27%)

Magenta (65%)

Yellow (0%)

Black (8%)



Cyan (33%)


Magenta (67%)


Yellow (8%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 34.8832, 20.8426, 80.7817 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 34.8832, 20.8426, 80.7817 by changing the saturation by 10% instead.

 34.8832, 20.8426,
80.7817


 34.8832, 20.8426,
80.7817


315.5695,
256.4408, 517.3394


 23.7390, 13.0090,
59.8319


 66.6400, 44.8254,
136.2855

 15.2638, 7.4347,
42.8587


 87.9833, 61.7434,
171.6766


 9.0923, 3.7354,
29.4437


 113.4571, 82.4584,
212.7185

 4.8590, 1.5267,
19.1683

 143.4266,
107.3547, 259.8298

 2.1987, 0.3074,
11.6139

 178.2572,
136.8166, 313.4290

 0.7420, 0.0000,
6.3620

218.3144,

 0.0000, 0.0000,

171.2287, 373.9346

2.9941

263.9634,
210.9753, 441.7652

■ 0.0000, 0.0000,
1.0916

■ 0.0000, 0.0000,
0.0000

■ 34.8832, 20.8426,
80.7817

■ 34.8832, 20.8426,
80.7817

■ 31.3052, 16.7664,
80.1839

■ 39.2335, 26.2216,
81.5911

■ 28.4286, 13.8599,
79.7745

■ 44.4120, 33.0136,
82.6291

■ 26.1720, 11.9642,
79.5275

■ 50.4724, 41.3198,
83.9129

■ 25.1577, 11.2370,
79.4406

■ 57.4623, 51.2307,
85.4575

65.4258, 62.8301,
87.2767

74.4040, 76.1955,
89.3833

84.4354, 91.3995,
91.7893

90.2369, 97.8716,
92.7327

91.9955, 98.7782,
92.8150

Harmonies

Analogous

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



24.5676, 20.8426, 114.6191



34.8832, 20.8426, 80.7817



42.0462, 20.8426, 38.9051

Triad

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



34.8832, 20.8426, 80.7817



24.8674, 20.8426, 0.4522



7.2020, 20.8426, 37.8538

Complementary

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



34.8832, 20.8426, 80.7817



43.3026, 66.2446, 18.6884

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.



7.2374, 20.8426, 11.7581



34.8832, 20.8426, 80.7817



15.7105, 20.8426, 0.4281

Square

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



34.8832, 20.8426, 80.7817



35.1600, 20.8426, 2.5271



9.8580, 20.8426, 2.4036



9.7396, 20.8426, 79.5242

Rectangle

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



34.8832, 20.8426, 80.7817



43.0087, 20.8426, 18.9193



9.8580, 20.8426, 2.4036



6.9458, 20.8426, 26.9402

Sweetspot

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



34.8841, 20.8434, 80.7822



74.3831, 69.2221, 104.0485



29.2896, 29.2906, 82.7075



15.3379, 13.9687, 22.1378



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.



34.8841, 20.8434, 80.7822



36.3191, 18.7446, 96.3116



50.9271, 29.2782, 74.1064



15.0665, 14.9796, 19.0195



14.1502, 6.3306, 44.2191



1.2205, 0.5535, 3.4774

Inverse Universe

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



42.6211, 25.9558, 30.3676



47.3813, 25.9869, 27.2700



35.2578, 62.0488, 20.5059



15.3286, 15.1593, 17.0157



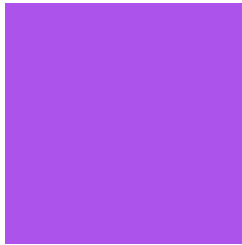
20.3803, 10.3548, 7.8040



1.6474, 0.8319, 0.8608

Previews

White Background



This preview shows how the XYZ color 34.8832, 20.8426, 80.7817 looks on a white background.

Color Contrast Check

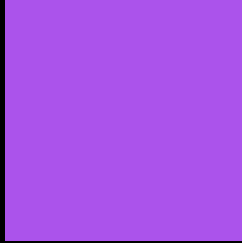
Large Text (above 18pt) WCAG AA ✓ Pass

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 34.8832, 20.8426, 80.7817 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

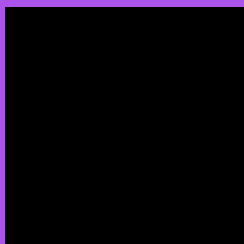
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 34.8832, 20.8426, 80.7817

Background



This preview shows how black text looks on a background with the XYZ color 34.8832, 20.8426, 80.7817.



This preview shows how white text looks on a background with the XYZ color 34.8832, 20.8426,

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

34.8832, 20.8426, 80.7817

Protanopia

25.4615, 21.3721, 97.3910

Deuteranopia

21.8233, 21.1235, 74.8785



Tritanopia

22.8960, 20.6469, 22.1805

Trichromacy



Original Color

34.8832, 20.8426, 80.7817



Protanomaly

25.5303, 19.1647, 91.1605



Deuteranomaly

22.9976, 18.8233, 76.5499



Tritanomaly

26.0399, 19.9882, 38.0830

Monochromacy



Original Color

34.8832, 20.8426, 80.7817



Achromatopsia

20.1725, 21.2231, 23.1119



Achromatomaly

23.8951, 19.9617, 38.6700

CSS Examples

Text

The CSS property to change the color of the text to XYZ 34.8832, 20.8426, 80.7817 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, 83, 235)` looks like.

```
.text, #text, p{  
    color:rgb(171, 83, 235)  
}
```

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, 83, 235) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 83, 235) }
```

Border

The CSS property to change the border of an element to XYZ 34.8832, 20.8426, 80.7817 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, 83, 235) }
```


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

```
.border{ border-color:rgb(171, 83, 235) }
```

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

Here you see how a box with a 4 pixel `rgb(171, 83, 235)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 83, 235); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 83, 235);  
box-shadow:4px 4px 4px 4px rgb(171, 83,  
235) }
```

Background

The CSS property to change the background color of an element to XYZ 34.8832, 20.8426, 80.7817 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 83, 235) }
```

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

```
.background{ background-color: rgb(171, 83,  
235) }
```

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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