

Converting Colors

XYZ(33.5857, 20.4393, 81.5233)

Have a look what the booklet for
XYZ(33.5857, 20.4393, 81.5233)
contains.

XYZ(33.4931, 20.3397, 81.5175)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(33.4931, 20.3397,
81.5175)**

Conversions

Conversions Part 1

Format	Color
Hex	A355EC
RGB	163, 85, 236
RGB Percent	64%, 33%, 93%
CMY	0.3608, 0.6667, 0.0745
CMYK	0.31, 0.64, 0.00, 0.07
HSL	271°, 80%, 63%
HSV	271°, 64%, 93%
XYZ	33.4931, 20.3397, 81.5175
YIQ	125.5360, -1.9830, 63.4970

Conversions

Conversions Part 2

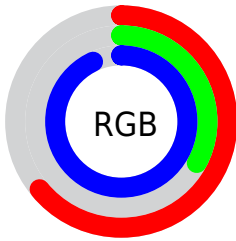
Format	Color
R_{YB}	163, 85, 236
Decimal	10704364
CIE _{Lab}	52.22, 59.12, -63.99
CIE _{LCh}	52, 87.114, 312.734
Yxy	20.3397, 0.2475, 0.1503
Android (android.graphics.Color)	4288894444 (0xFFA355EC)
YUV	125.5360, 54.4588, 32.8559
Hunter-Lab	45.0996, 53.6385, -75.5971

Details

The XYZ color **33.4931, 20.3397, 81.5175** 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 **45.7358, 67.9161, 19.2934**, and the grayscale version is **19.4970, 20.5123, 22.3379**.

A 20% lighter version of the original color is **57.4068, 41.2148, 99.5373**, and **14.4017, 7.1367, 43.2663** is the 20% darker color. If you saturate the color by 10%, you get **29.7038, 16.0731, 80.8941**, and if you desaturate by 10%, it is **38.1143, 25.9549, 82.3582**.

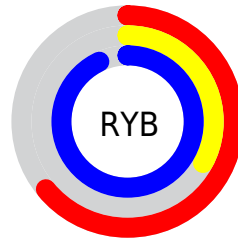
Distribution



Red (64%)

Green (33%)

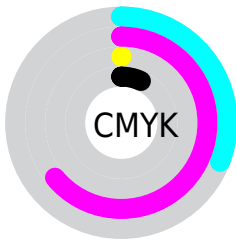
Blue (93%)



Red (64%)

Yellow (33%)

Blue (93%)

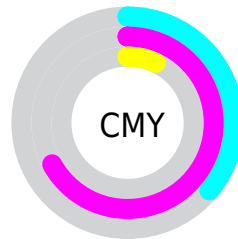


Cyan (31%)

Magenta (64%)

Yellow (0%)

Black (7%)



Cyan (36%)

Magenta (67%)

Yellow (7%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 33.4931, 20.3397, 81.5175 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 33.4931, 20.3397, 81.5175 by changing the saturation by 10% instead.

33.4931, 20.3397,
81.5175

33.4931, 20.3397,
81.5175

309.4917,
253.7482, 519.8733

22.6655, 12.6422,
60.4344

64.4942, 43.9860,
137.3278

14.4660, 7.1826,
43.3413

85.3983, 60.7036,
172.8920

8.5294, 3.5766,
29.8196

110.3921, 81.1967,
214.1204

4.4901, 1.4396,
19.4508

139.8407,
105.8496, 261.4315

1.9830, 0.2457,
11.8164

174.1097,
135.0469, 315.2438

0.6244, 0.0000,
6.4977

213.5642,

0.0000, 0.0000,

169.1728, 375.9758

3.0764

258.5698,
208.6118, 444.0462

■ 0.0000, 0.0000,
1.1338

■ 0.0000, 0.0000,
0.0000

■ 33.4931, 20.3397,
81.5175

■ 33.4931, 20.3397,
81.5175

■ 29.7038, 16.0731,
80.8941

■ 38.1143, 25.9549,
82.3582

■ 26.6737, 13.0213,
80.4647

■ 43.6255, 33.0304,
83.4334

■ 24.3195, 11.0253,
80.2035

■ 50.0821, 41.6683,
84.7604

■ 23.1538, 10.1872,
80.1032

■ 57.5339, 51.9608,
86.3543

66.0268, 63.9925,
88.2290

75.6038, 77.8424,
90.3976

86.3051, 93.5844,
92.8721

91.8743, 98.6990,
93.5657

92.1404, 98.8362,
93.5782

Harmonies

Analogous

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



23.3725, 20.3397, 113.1680



33.4931, 20.3397, 81.5175



40.8196, 20.3397, 40.1971

Triad

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



33.4931, 20.3397, 81.5175



24.8934, 20.3397, 0.4785



6.9494, 20.3397, 34.8608

Complementary

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



33.4931, 20.3397, 81.5175



45.7358, 67.9161, 19.2934

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.



7.1287, 20.3397, 10.5168



33.4931, 20.3397, 81.5175



15.7868, 20.3397, 0.3539

Square

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



33.4931, 20.3397, 81.5175



34.8979, 20.3397, 2.7253



9.8596, 20.3397, 2.0998



9.2590, 20.3397, 75.1337

Rectangle

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



33.4931, 20.3397, 81.5175



42.0742, 20.3397, 19.8809



9.8596, 20.3397, 2.0998



6.7476, 20.3397, 24.5780

Sweetspot

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



33.4940, 20.3404, 81.5180



73.3958, 68.7131, 104.0023



31.5448, 33.3034, 84.1228



15.0993, 13.8457, 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.



33.4940, 20.3404, 81.5180



34.1089, 17.7937, 96.2445



52.9813, 30.3865, 82.4300



14.9734, 14.9316, 19.0151



12.9131, 5.6929, 44.1612



1.1250, 0.5043, 3.4729

Inverse Universe

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



44.0124, 26.7989, 35.2006



48.5831, 26.6709, 32.9725



35.3819, 62.5785, 18.8089



15.3688, 15.1754, 17.2276



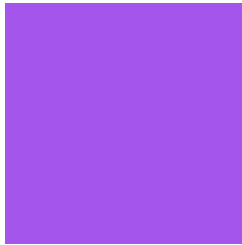
20.8096, 10.5265, 10.0648



1.6825, 0.8460, 1.0453

Previews

White Background



This preview shows how the XYZ color 33.4931, 20.3397, 81.5175 looks on a white background.

Color Contrast Check

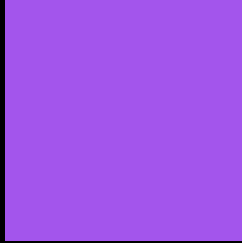
Large Text (above 18pt) WCAG AA ✓ Pass

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 33.4931, 20.3397, 81.5175 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

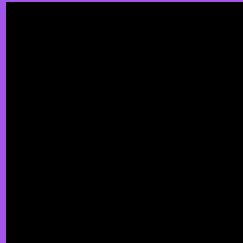
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 33.4931, 20.3397, 81.5175

Background



This preview shows how black text looks on a background with the XYZ color 33.4931, 20.3397, 81.5175.



This preview shows how white text looks on a background with the XYZ color 33.4931, 20.3397,

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

33.4931, 20.3397, 81.5175

Protanopia

24.7915, 20.6658, 97.2900

Deuteranopia

21.1800, 20.6150, 74.0969



Tritanopia

21.6369, 20.3288, 22.8621

Trichromacy



Original Color

33.4931, 20.3397, 81.5175



Protanomaly

24.1254, 18.2848, 91.0647



Deuteranomaly

21.7407, 18.1753, 76.4911



Tritanomaly

24.7068, 19.5821, 39.0368

Monochromacy



Original Color

33.4931, 20.3397, 81.5175



Achromatopsia

19.8309, 20.8637, 22.7206



Achromatomaly

23.2148, 19.6110, 38.6381

CSS Examples

Text

The CSS property to change the color of the text to XYZ 33.4931, 20.3397, 81.5175 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(163, 85, 236)` looks like.

```
.text, #text, p{  
    color:rgb(163, 85, 236)  
}
```

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(163, 85, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 85, 236) }
```

Border

The CSS property to change the border of an element to XYZ 33.4931, 20.3397, 81.5175 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(163, 85, 236) }
```


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

```
.border{ border-color:rgb(163, 85, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 85, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 85, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 85, 236);  
box-shadow:4px 4px 4px 4px rgb(163, 85,  
236) }
```

Background

The CSS property to change the background color of an element to XYZ 33.4931, 20.3397, 81.5175 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 85, 236) }
```

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

```
.background{ background-color: rgb(163, 85,  
236) }
```

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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