

Converting Colors

XYZ(18.3217, 13.0205, 33.3867)

Have a look what the booklet for
XYZ(18.3217, 13.0205, 33.3867)
contains.

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Color

**XYZ(18.3145, 12.9969,
33.4417)**

Conversions

Conversions Part 1

Format	Color
Hex	83509D
RGB	131, 80, 157
RGB Percent	51%, 31%, 62%
CMY	0.4863, 0.6863, 0.3843
CMYK	0.17, 0.49, 0.00, 0.38
HSL	280°, 32%, 46%
HSV	280°, 49%, 62%
XYZ	18.3145, 12.9969, 33.4417
YIQ	104.0270, 5.6790, 34.7590

Conversions

Conversions Part 2

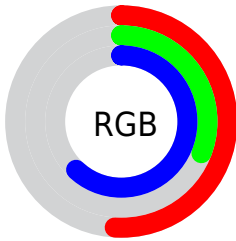
Format	Color
R_{YB}	131, 80, 157
Decimal	8605853
CIE _{Lab}	42.76, 35.52, -33.63
CIE _{LCh}	43, 48.919, 316.568
Yxy	12.9969, 0.2828, 0.2007
Android (android.graphics.Color)	4286795933 (0xFF83509D)
YUV	104.0270, 26.1157, 23.6553
Hunter-Lab	36.0512, 27.5908, -29.7625

Details

The XYZ color **18.3145, 12.9969, 33.4417** is a dark color, and the websafe version is hex **9966CC**. A complement of this color would be **19.4492, 27.7576, 11.9226**, and the grayscale version is **13.0970, 13.7791, 15.0054**.

A 20% lighter version of the original color is **40.2497, 31.4252, 66.2316**, and **6.2908, 3.7152, 13.7501** is the 20% darker color. If you saturate the color by 10%, you get **16.4964, 10.5482, 33.0651**, and if you desaturate by 10%, it is **20.4442, 16.0055, 33.9104**.

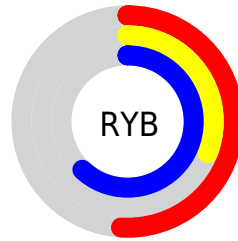
Distribution



Red (51%)

Green (31%)

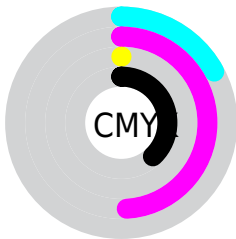
Blue (62%)



Red (51%)

Yellow (31%)

Blue (62%)

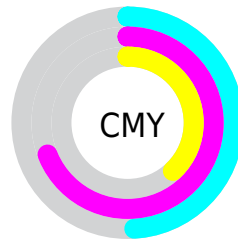


Cyan (17%)

Magenta (49%)

Yellow (0%)

Black (38%)



Cyan (49%)

Magenta (69%)

Yellow (38%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.3145, 12.9969, 33.4417 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 18.3145, 12.9969, 33.4417 by changing the saturation by 10% instead.

■ 18.3145, 12.9969,
33.4417

■ 18.3145, 12.9969,
33.4417

235.6492,
210.8978, 332.3282

■ 11.2771, 7.4264,
22.1911

■ 40.0984, 31.2982,
66.1885

■ 6.3222, 3.7302,
13.7978

■ 55.5756, 44.7978,
88.5217

■ 3.0845, 1.5238,
7.8430

■ 74.5967, 61.7093,
115.3864

■ 1.1986, 0.3054,
3.9083

■ 97.5272, 82.4170,
147.2008

■ 0.1053, 0.0000,
1.5752

■ 124.7323,
107.3052, 184.3837

■ 0.0000, 0.0000,
0.2730

156.5774,

■ 0.0000, 0.0000,

136.7586, 227.3536

0.0000

193.4280,
171.1613, 276.5289

■ 18.3145, 12.9969,
33.4417

■ 18.3145, 12.9969,
33.4417

■ 16.4964, 10.5482,
33.0651

■ 20.4442, 16.0055,
33.9104

■ 14.9688, 8.6195,
32.7733

■ 22.9018, 19.6071,
34.4760

■ 13.7101, 7.1681,
32.5595

■ 25.7041, 23.8339,
35.1442

■ 12.6945, 6.1435,
32.4153

■ 28.8663, 28.7154,
35.9198

■ 11.8687, 5.4397,
32.3230

■ 32.4026, 34.2792,
36.8073

■ 11.7933, 5.3767,
32.3148

■ 36.3263, 40.5513,
37.8111

■ 40.6502, 47.5562,
38.9353

■ 45.3865, 55.3173,
40.1837

■ 50.5465, 63.8569,
41.5601

Harmonies

Analogous

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



14.5088, 12.9969, 44.2977



18.3145, 12.9969, 33.4417



20.7053, 12.9969, 19.4676

Triad

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



18.3145, 12.9969, 33.4417



14.0916, 12.9969, 2.1108



6.6841, 12.9969, 20.8390

Complementary

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



18.3145, 12.9969, 33.4417



19.4492, 27.7576, 11.9226

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.



6.6170, 12.9969, 9.9036



18.3145, 12.9969, 33.4417



10.4224, 12.9969, 2.1935

Square

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



18.3145, 12.9969, 33.4417



17.9567, 12.9969, 3.8745



7.8501, 12.9969, 4.2187



8.0566, 12.9969, 34.8690

Rectangle

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



18.3145, 12.9969, 33.4417



20.9160, 12.9969, 11.9337



7.8501, 12.9969, 4.2187



6.5193, 12.9969, 16.6282

Sweetspot

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



18.3150, 12.9974, 33.4420



48.0824, 45.8258, 63.4378



14.6470, 14.6453, 33.9534



10.3436, 9.7202, 13.9014



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



18.3150, 12.9974, 33.4420



29.2195, 18.4690, 59.1516



21.9193, 14.9641, 28.7038



6.6864, 6.6423, 8.3364



9.6188, 4.3877, 26.2472



0.2152, 0.1007, 0.4713

Inverse Universe

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



19.3752, 13.9465, 15.3069



31.7002, 20.5846, 21.4645



17.2778, 26.5846, 14.2436



6.7209, 6.6813, 7.3812



11.8311, 6.0370, 3.3616



0.2302, 0.1154, 0.1585

Previews

White Background



This preview shows how the XYZ color 18.3145, 12.9969, 33.4417 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 18.3145, 12.9969, 33.4417 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 18.3145, 12.9969, 33.4417

Background



This preview shows how black text looks on a background with the XYZ color 18.3145, 12.9969, 33.4417.



This preview shows how white text looks on a background with the XYZ color 18.3145, 12.9969,

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

18.3145, 12.9969, 33.4417

Protanopia

14.4857, 13.2086, 41.8304

Deuteranopia

13.4640, 13.1850, 31.9723



Tritanopia

14.2894, 12.9059, 14.0499

Trichromacy



Original Color

18.3145, 12.9969, 33.4417

Protanomaly

15.2094, 12.7056, 38.6966

Deuteranomaly

14.6769, 12.7032, 32.2503

Tritanomaly

15.3984, 12.7199, 19.7328

Monochromacy



Original Color

18.3145, 12.9969, 33.4417

Achromatopsia

13.1579, 13.8432, 15.0752

Achromatomaly

14.6068, 13.1919, 20.5153

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.3145, 12.9969, 33.4417 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(131, 80, 157)` looks like.

```
.text, #text, p{  
    color:rgb(131, 80, 157)  
}
```

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(131, 80, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(131, 80, 157) }
```

Border

The CSS property to change the border of an element to XYZ 18.3145, 12.9969, 33.4417 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(131, 80, 157) }
```


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

```
.border{ border-color:rgb(131, 80, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(131, 80, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(131, 80, 157); -webkit-box-  
shadow:4px 4px 4px 4px rgb(131, 80, 157);  
box-shadow:4px 4px 4px 4px rgb(131, 80,  
157) }
```

Background

The CSS property to change the background color of an element to XYZ 18.3145, 12.9969, 33.4417 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(131, 80, 157) }
```

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

```
.background{ background-color: rgb(131, 80,  
157) }
```

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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