

Converting Colors

XYZ(16.8256, 13.2472, 20.0106)

Have a look what the booklet for
XYZ(16.8256, 13.2472, 20.0106)
contains.

XYZ(16.8323, 13.2116, 20.0753)	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(16.8323, 13.2116,
20.0753)**

Conversions

Conversions Part 1

Format	Color
Hex	87567A
RGB	135, 86, 122
RGB Percent	53%, 34%, 48%
CMY	0.4706, 0.6627, 0.5216
CMYK	0.00, 0.36, 0.10, 0.47
HSL	316°, 22%, 43%
HSV	316°, 36%, 53%
XYZ	16.8323, 13.2116, 20.0753
YIQ	104.7550, 17.6480, 21.5840

Conversions

Conversions Part 2

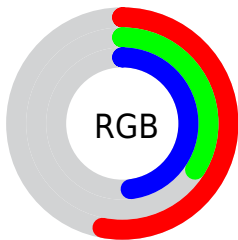
Format	Color
R_{YB}	135, 86, 122
Decimal	8869498
CIE _{Lab}	43.08, 26.13, -11.97
CIE _{LCh}	43, 28.738, 335.387
Yxy	13.2116, 0.3358, 0.2636
Android (android.graphics.Color)	4287059578 (0xFF87567A)
YUV	104.7550, 8.5018, 26.5249
Hunter-Lab	36.3478, 19.0530, -7.3031

Details

The XYZ color **16.8323, 13.2116, 20.0753** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **14.7544, 20.2076, 14.9280**, and the grayscale version is **13.3358, 14.0303, 15.2790**.

A 20% lighter version of the original color is **37.5719, 31.7661, 44.1956**, and **5.5843, 3.8169, 6.7457** is the 20% darker color. If you saturate the color by 10%, you get **15.6368, 11.1690, 18.6020**, and if you desaturate by 10%, it is **18.2404, 15.6659, 21.6601**.

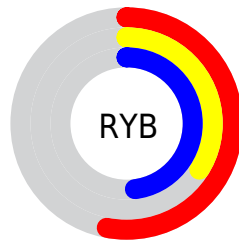
Distribution



Red (53%)

Green (34%)

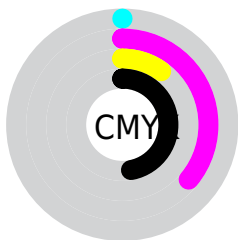
Blue (48%)



Red (53%)

Yellow (34%)

Blue (48%)

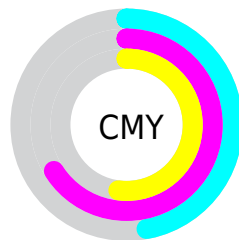


Cyan (0%)

Magenta (36%)

Yellow (10%)

Black (47%)



Cyan (47%)

Magenta (66%)

Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 16.8323, 13.2116, 20.0753 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 16.8323, 13.2116, 20.0753 by changing the saturation by 10% instead.

■ 16.8323, 13.2116,
20.0753

■ 16.8323, 13.2116,
20.0753

227.3792,
212.2694, 264.9402

■ 10.2096, 7.5744,
12.2652

■ 37.5831, 31.6834,
44.4040

■ 5.6015, 3.8239,
6.7998

■ 52.4419, 45.2868,
61.7597

■ 2.6426, 1.5755,
3.2607

■ 70.7767, 62.3144,
83.1343

■ 0.9677, 0.3410,
1.2292

■ 92.9530, 83.1507,
108.9464

■ 0.0000, 0.0000,
0.0027

■ 119.3360,
108.1799, 139.6145

■ 0.0000, 0.0000,
0.0000

150.2912,

137.7865, 175.5571

186.1838,
172.3548, 217.1928

■ 16.8323, 13.2116,
20.0753

■ 16.8323, 13.2116,
20.0753

■ 15.6368, 11.1690,
18.6020

■ 18.2404, 15.6659,
21.6601

■ 14.6410, 9.5133,
17.2351

■ 19.8707, 18.5513,
23.3596

■ 13.8328, 8.2197,
15.9702

■ 21.7333, 21.8882,
25.1778

■ 13.1978, 7.2599,
14.8020

■ 23.8376, 25.6951,
27.1182

■ 12.7197, 6.6014,
13.7248

■ 26.1926, 29.9894,
29.1841

■ 12.3711, 6.1895,
12.7290

■ 28.8064, 34.7878,
31.3788

■ 12.2526, 6.0553,
12.3731

■ 31.6871, 40.1061,
33.7052

■ 34.8423, 45.9594,
36.1663

■ 38.2794, 52.3621,
38.7649

Harmonies

Analogous

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



15.1835, 13.2116, 26.7693



16.8323, 13.2116, 20.0753



17.2830, 13.2116, 13.2722

Triad

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



16.8323, 13.2116, 20.0753



12.1624, 13.2116, 5.3496



9.4004, 13.2116, 22.6504

Complementary

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



16.8323, 13.2116, 20.0753



14.7544, 20.2076, 14.9280

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.



8.7825, 13.2116, 15.5587



16.8323, 13.2116, 20.0753



10.2528, 13.2116, 6.5672

Square

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



16.8323, 13.2116, 20.0753



14.4124, 13.2116, 5.9125



9.0752, 13.2116, 9.8868



10.8685, 13.2116, 28.5360

Rectangle

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



16.8323, 13.2116, 20.0753



16.8028, 13.2116, 9.7713



9.0752, 13.2116, 9.8868



9.0948, 13.2116, 20.2618

Sweetspot

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



16.8327, 13.2122, 20.0756



37.2149, 36.1348, 43.4489



12.7656, 11.0161, 24.3754



8.5299, 8.2097, 9.9755



65.7814, 69.2071, 75.3665



9.5508, 10.0482, 10.9424

Same Dimension

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



16.8327, 13.2122, 20.0756



28.2617, 20.4399, 33.6467



15.5364, 12.6937, 13.2492



4.8065, 4.7423, 5.5936



11.3040, 5.5860, 11.4392



0.0422, 0.0206, 0.0555

Inverse Universe

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



16.8327, 13.2122, 20.0756



28.2617, 20.4399, 33.6467



16.0617, 20.7305, 21.8122



4.8065, 4.7423, 5.5936



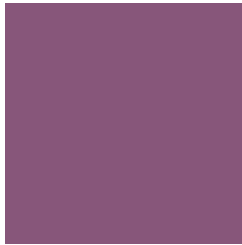
11.3040, 5.5860, 11.4392



0.0422, 0.0206, 0.0555

Previews

White Background



This preview shows how the XYZ color 16.8323, 13.2116, 20.0753 looks on a white background.

Color Contrast Check

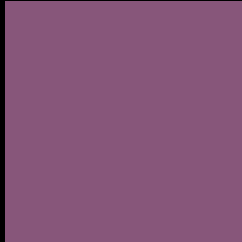
Large Text (above 18pt) WCAG AA ✓ Pass

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 16.8323, 13.2116, 20.0753 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

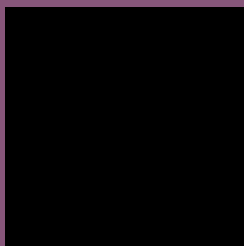
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 16.8323, 13.2116, 20.0753

Background



This preview shows how black text looks on a background with the XYZ color 16.8323, 13.2116, 20.0753.



This preview shows how white text looks on a background with the XYZ color 16.8323, 13.2116,

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

16.8323, 13.2116, 20.0753

Protanopia

13.4346, 13.3530, 23.6991

Deuteranopia

13.6563, 13.4135, 19.6386



Tritanopia

15.4614, 13.2695, 13.3016

Trichromacy



Original Color

16.8323, 13.2116, 20.0753

Protanomaly

14.3858, 13.1755, 22.2070

Deuteranomaly

14.6136, 13.2097, 19.8687

Tritanomaly

15.8991, 13.1928, 15.6184

Monochromacy



Original Color

16.8323, 13.2116, 20.0753

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

14.4394, 13.5961, 16.9022

CSS Examples

Text

The CSS property to change the color of the text to XYZ 16.8323, 13.2116, 20.0753 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(135, 86, 122)` looks like.

```
.text, #text, p{  
    color:rgb(135, 86, 122)  
}
```

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(135, 86, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 86, 122) }
```

Border

The CSS property to change the border of an element to XYZ 16.8323, 13.2116, 20.0753 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(135, 86, 122) }
```


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

```
.border{ border-color:rgb(135, 86, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 86, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 86, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 86, 122);  
box-shadow:4px 4px 4px 4px rgb(135, 86,  
122) }
```

Background

The CSS property to change the background color of an element to XYZ 16.8323, 13.2116, 20.0753 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 86, 122) }
```

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

```
.background{ background-color: rgb(135, 86,  
122) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor