

Converting Colors

XYZ(20.4204, 16.5347, 33.3408)

Have a look what the booklet for
XYZ(20.4204, 16.5347, 33.3408)
contains.

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Color

**XYZ(20.4652, 16.6318,
33.1420)**

Conversions

Conversions Part 1

Format	Color
Hex	87649B
RGB	135, 100, 155
RGB Percent	53%, 39%, 61%
CMY	0.4706, 0.6078, 0.3922
CMYK	0.13, 0.35, 0.00, 0.39
HSL	278°, 22%, 50%
HSV	278°, 35%, 61%
XYZ	20.4652, 16.6318, 33.1420
YIQ	116.7350, 3.2050, 24.5250

Conversions

Conversions Part 2

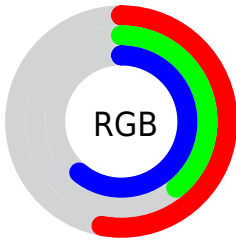
Format	Color
R_{YB}	135, 100, 155
Decimal	8873115
CIE _{Lab}	47.79, 24.71, -24.55
CIE _{LCh}	48, 34.834, 315.194
Yxy	16.6318, 0.2914, 0.2368
Android (android.graphics.Color)	4287063195 (0xFF87649B)
YUV	116.7350, 18.8646, 16.0184
Hunter-Lab	40.7821, 18.2059, -19.6352

Details

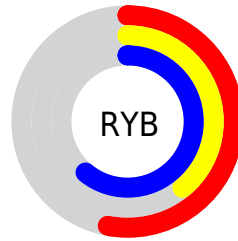
The XYZ color **20.4652, 16.6318, 33.1420** is a dark color, and the websafe version is hex **996699**. A complement of this color would be **21.7680, 28.3563, 16.3834**, and the grayscale version is **16.7699, 17.6433, 19.2135**.

A 20% lighter version of the original color is **43.6857, 37.6052, 65.9288**, and **7.3828, 5.3403, 13.7384** is the 20% darker color. If you saturate the color by 10%, you get **18.2347, 13.4813, 32.6517**, and if you desaturate by 10%, it is **23.0277, 20.3741, 33.7295**.

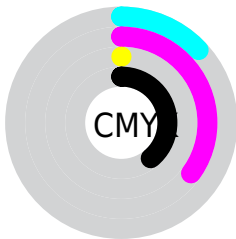
Distribution



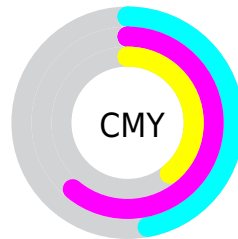
- Red (53%)
- Green (39%)
- Blue (61%)



- Red (53%)
- Yellow (39%)
- Blue (61%)



- Cyan (13%)
- Magenta (35%)
- Yellow (0%)
- Black (39%)



- Cyan (47%)
- Magenta (61%)
- Yellow (39%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4652, 16.6318, 33.1420 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 20.4652, 16.6318, 33.1420 by changing the saturation by 10% instead.

■ 20.4652, 16.6318,
33.1420

■ 20.4652, 16.6318,
33.1420

247.2084,
233.0415, 330.9407

■ 12.8439, 9.9723,
21.9632

■ 43.6938, 37.6916,
65.7157

■ 7.3974, 5.3806,
13.6318

■ 60.0317, 52.8608,
87.9478

■ 3.7604, 2.4723,
7.7292

■ 80.0060, 71.6352,
114.7013

■ 1.5675, 0.8627,
3.8369

■ 103.9818, 94.3994,
146.3949

■ 0.3711, 0.0000,
1.5363

132.3246,
121.5378, 183.4472

■ 0.0000, 0.0000,
0.2448

165.3997,

■ 0.0000, 0.0000,

153.4346, 226.2765

0.0000

203.5725,
190.4744, 275.3015

■ 20.4652, 16.6318,
33.1420

■ 20.4652, 16.6318,
33.1420

■ 18.2347, 13.4813,
32.6517

■ 23.0277, 20.3741,
33.7295

■ 16.3177, 10.8880,
32.2522

■ 25.9360, 24.7362,
34.4182

■ 14.6962, 8.8168,
31.9379

■ 29.2053, 29.7466,
35.2130

■ 13.3498, 7.2277,
31.7021

■ 32.8490, 35.4317,
36.1183

■ 12.2547, 6.0744,
31.5372

■ 36.8801, 41.8160,
37.1382

■ 11.3797, 5.2958,
31.4331

■ 41.3108, 48.9232,
38.2764

■ 11.0223, 4.9987,
31.3946

■ 46.1528, 56.7755,
39.5369

■ 51.4172, 65.3943,
40.9230

■ 57.1147, 74.8002,
42.4383

Harmonies

Analogous

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



17.4355, 16.6318, 40.3059



20.4652, 16.6318, 33.1420



22.3569, 16.6318, 22.8716

Triad

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



20.4652, 16.6318, 33.1420



17.3936, 16.6318, 6.0480



10.6901, 16.6318, 23.0034

Complementary

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



20.4652, 16.6318, 33.1420



21.7680, 28.3563, 16.3834

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.



10.6820, 16.6318, 14.0585



20.4652, 16.6318, 33.1420



14.2851, 16.6318, 6.0626

Square

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



20.4652, 16.6318, 33.1420



20.4310, 16.6318, 8.4392



11.9171, 16.6318, 8.4888



11.9410, 16.6318, 33.2655

Rectangle

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



20.4652, 16.6318, 33.1420



22.5778, 16.6318, 16.5958



11.9171, 16.6318, 8.4888



10.5479, 16.6318, 19.7119

Sweetspot

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



20.4658, 16.6325, 33.1424



48.8664, 47.9841, 62.2226



17.9091, 18.5497, 33.6472



10.8978, 10.6120, 14.0443



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.



20.4658, 16.6325, 33.1424



33.2733, 25.0006, 58.6082



23.3942, 18.2112, 30.1613



6.2433, 6.2113, 7.7988



8.8958, 4.0370, 25.2181



0.1726, 0.0808, 0.3789

Inverse Universe

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



21.4655, 17.4397, 20.0050



35.5333, 26.7874, 30.6252



19.6489, 27.2210, 18.2214



6.2970, 6.2580, 6.9441



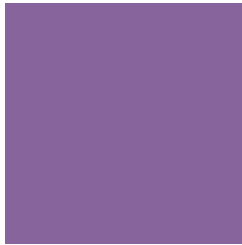
11.4550, 5.8362, 3.6549



0.1877, 0.0938, 0.1414

Previews

White Background



This preview shows how the XYZ color 20.4652, 16.6318, 33.1420 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 20.4652, 16.6318, 33.1420 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

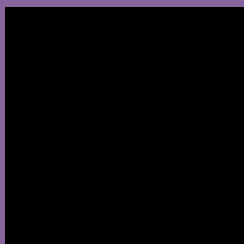
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 20.4652, 16.6318, 33.1420

Background



This preview shows how black text looks on a background with the XYZ color 20.4652, 16.6318, 33.1420.



This preview shows how white text looks on a background with the XYZ color 20.4652, 16.6318,

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

20.4652, 16.6318, 33.1420

Protanopia

17.4248, 16.8101, 37.4482

Deuteranopia

17.1375, 16.7718, 32.4710



Tritanopia

17.5682, 16.6532, 18.8114

Trichromacy



Original Color

20.4652, 16.6318, 33.1420

Protanomaly

18.3511, 16.6778, 35.9701

Deuteranomaly

18.2655, 16.7031, 32.8332

Tritanomaly

18.4409, 16.5402, 23.3397

Monochromacy



Original Color

20.4652, 16.6318, 33.1420

Achromatopsia

16.9083, 17.7888, 19.3720

Achromatomaly

18.0934, 17.2927, 23.8569

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4652, 16.6318, 33.1420 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, 100, 155)` looks like.

```
.text, #text, p{  
    color:rgb(135, 100, 155)  
}
```

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, 100, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 100, 155) }
```

Border

The CSS property to change the border of an element to XYZ 20.4652, 16.6318, 33.1420 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, 100, 155) }
```


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

```
.border{ border-color:rgb(135, 100, 155) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 100, 155)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 100, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 100, 155);  
box-shadow:4px 4px 4px 4px rgb(135, 100,  
155) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4652, 16.6318, 33.1420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 100, 155) }
```

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

```
.background{ background-color: rgb(135,  
100, 155) }
```

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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