

Converting Colors

XYZ(20.9811, 16.1783, 12.3096)

Have a look what the booklet for
XYZ(20.9811, 16.1783, 12.3096)
contains.

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Color

**XYZ(21.0267, 16.1650,
12.3679)**

Conversions

Conversions Part 1

Format	Color
Hex	A45B5D
RGB	164, 91, 93
RGB Percent	64%, 36%, 36%
CMY	0.3569, 0.6431, 0.6353
CMYK	0.00, 0.45, 0.43, 0.36
HSL	358°, 29%, 50%
HSV	358°, 45%, 64%
XYZ	21.0267, 16.1650, 12.3679
YIQ	113.0550, 42.8660, 16.0980

Conversions

Conversions Part 2

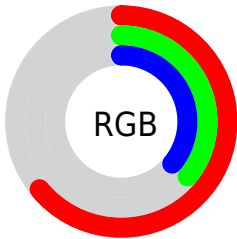
Format	Color
RYB	164, 91, 93
Decimal	10771293
CIELab	47.19, 30.03, 12.09
CIElCh	47, 32.370, 21.930
Yxy	16.1650, 0.4243, 0.3262
Android (android.graphics.Color)	4288961373 (0xFFA45B5D)
YUV	113.0550, -9.8871, 44.6788
Hunter-Lab	40.2057, 22.9915, 9.9055

Details

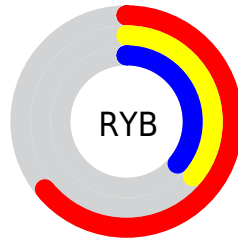
The XYZ color **21.0267, 16.1650, 12.3679** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **24.1122, 31.3840, 38.9710**, and the grayscale version is **15.7323, 16.5516, 18.0247**.

A 20% lighter version of the original color is **44.4497, 36.7013, 30.7279**, and **7.6836, 5.1842, 3.2850** is the 20% darker color. If you saturate the color by 10%, you get **19.1405, 13.4077, 8.6095**, and if you desaturate by 10%, it is **23.3676, 19.5956, 17.0053**.

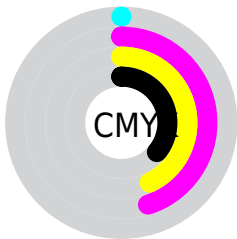
Distribution



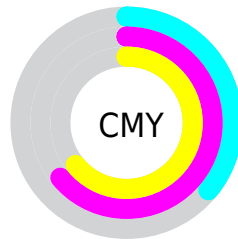
- Red (64%)
- Green (36%)
- Blue (36%)



- Red (64%)
- Yellow (36%)
- Blue (36%)



- Cyan (0%)
- Magenta (45%)
- Yellow (43%)
- Black (36%)



- Cyan (36%)
- Magenta (64%)
- Yellow (64%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 21.0267, 16.1650, 12.3679 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 21.0267, 16.1650, 12.3679 by changing the saturation by 10% instead.

■ 21.0267, 16.1650,
12.3679

■ 21.0267, 16.1650,
12.3679

250.1494,
230.3134, 217.8895

■ 13.2561, 9.6410,
6.8692

■ 44.6229, 36.8844,
30.8378

■ 7.6833, 5.1616,
3.3032

■ 61.1792, 51.8486,
44.6460

■ 3.9431, 2.3424,
1.2515

■ 81.3948, 70.3950,
62.0611

■ 1.6700, 0.7960,
0.0215

■ 105.6350, 92.9079,
83.5017

■ 0.4374, 0.0000,
0.0000

134.2652,
119.7719, 109.3864

■ 0.0000, 0.0000,
0.0000

167.6508,

151.3711, 140.1335

206.1571,
188.0902, 176.1617

■ 21.0267, 16.1650,
12.3679

■ 21.0267, 16.1650,
12.3679

■ 19.1405, 13.4077,
8.6095

■ 23.3676, 19.5956,
17.0053

■ 17.6781, 11.2773,
5.6737

■ 26.1885, 23.7371,
22.5713

■ 16.6073, 9.7252,
3.4993

■ 29.5148, 28.6273,
29.1130


■ 15.8903, 8.6949,
2.0158

■ 33.3693, 34.3006,
36.6739

■ 15.4818, 8.1177,
1.1399


■ 37.7737, 40.7892,
45.2950

 15.3344, 7.9023,
0.8459

 42.7484, 48.1236,
55.0149

 48.3127, 56.3326,
65.8705

 54.4851, 65.4437,
77.8968

 61.2832, 75.4832,
91.1273

Harmonies

Analogous

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



21.4512, 16.1650, 19.8965



21.0267, 16.1650, 12.3679



18.9958, 16.1650, 7.9138

Triad

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



21.0267, 16.1650, 12.3679



11.4427, 16.1650, 9.5912



14.6081, 16.1650, 38.1513

Complementary

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



21.0267, 16.1650, 12.3679



24.1122, 31.3840, 38.9710

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.



12.2280, 16.1650, 33.0658



21.0267, 16.1650, 12.3679



10.5538, 16.1650, 15.4891

Square

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



21.0267, 16.1650, 12.3679



13.4080, 16.1650, 6.6903



10.8224, 16.1650, 24.1343



17.5023, 16.1650, 36.5337

Rectangle

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



21.0267, 16.1650, 12.3679



17.1269, 16.1650, 6.5025



10.8224, 16.1650, 24.1343



13.7271, 16.1650, 37.1249

Sweetspot

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



21.0271, 16.1658, 12.3682



54.4056, 53.1862, 54.4770



25.2547, 17.7994, 37.2264



11.5925, 11.1838, 11.3174



78.6606, 82.7571, 90.1225



14.0027, 14.7319, 16.0430

Same Dimension

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



21.0271, 16.1658, 12.3682



34.8995, 24.5654, 15.9400



24.5407, 23.3326, 13.1088



7.0813, 7.0890, 7.4143



11.7606, 6.0603, 0.6640



0.2493, 0.1282, 0.0256

Inverse Universe

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



21.0271, 16.1658, 12.3682



34.8995, 24.5654, 15.9400



18.9897, 20.8528, 38.1460



7.0813, 7.0890, 7.4143



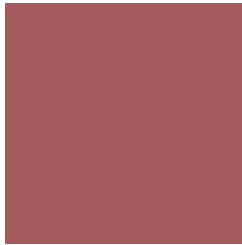
11.7606, 6.0603, 0.6640



0.2493, 0.1282, 0.0256

Previews

White Background



This preview shows how the XYZ color 21.0267, 16.1650, 12.3679 looks on a white background.

Color Contrast Check

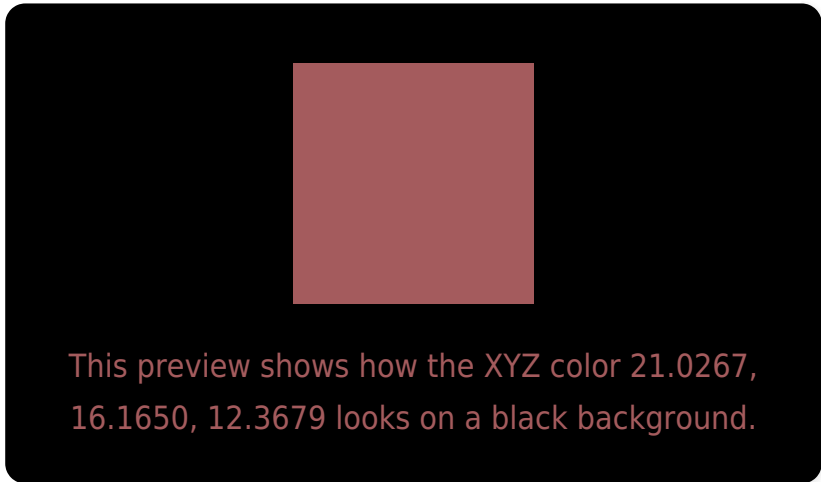
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

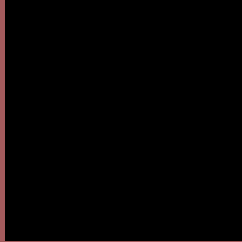
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 21.0267, 16.1650, 12.3679

Background



This preview shows how black text looks on a background with the XYZ color 21.0267, 16.1650, 12.3679.



This preview shows how white text looks on a background with the XYZ color 21.0267, 16.1650,

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

21.0267, 16.1650, 12.3679

Protanopia

15.4953, 16.3008, 15.4264

Deuteranopia

16.5681, 16.2886, 11.9436



Tritanopia

21.1237, 16.0679, 13.2973

Trichromacy



Original Color

21.0267, 16.1650, 12.3679

Protanomaly

16.9234, 15.8073, 14.2157

Deuteranomaly

17.9674, 16.0977, 12.0577

Tritanomaly

21.0773, 16.0494, 13.0533

Monochromacy



Original Color

21.0267, 16.1650, 12.3679

Achromatopsia

15.6958, 16.5132, 17.9829

Achromatomaly

17.1688, 16.0493, 15.8286

CSS Examples

Text

The CSS property to change the color of the text to XYZ 21.0267, 16.1650, 12.3679 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(164, 91, 93)` looks like.

```
.text, #text, p{  
    color:rgb(164, 91, 93)  
}
```

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(164, 91, 93) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 91, 93) }
```

Border

The CSS property to change the border of an element to XYZ 21.0267, 16.1650, 12.3679 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(164, 91, 93) }
```


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

```
.border{ border-color:rgb(164, 91, 93) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 91, 93)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 91, 93); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 91, 93);  
box-shadow:4px 4px 4px 4px rgb(164, 91,  
93) }
```

Background

The CSS property to change the background color of an element to XYZ 21.0267, 16.1650, 12.3679 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 91, 93) }
```

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

```
.background{ background-color: rgb(164, 91,  
93) }
```

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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