

Converting Colors

XYZ(23.3721, 20.5124, 0.0000)

Have a look what the booklet for
XYZ(23.3721, 20.5124, 0.0000)
contains.

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Color

**XYZ(23.8159, 20.7160,
2.7434)**

Conversions

Conversions Part 1

Format	Color
Hex	B16F00
RGB	177, 111, 0
RGB Percent	69%, 44%, 0%
CMY	0.3059, 0.5647, 1.0000
CMYK	0.00, 0.37, 1.00, 0.31
HSL	38°, 100%, 35%
HSV	38°, 100%, 69%
XYZ	23.8159, 20.7160, 2.7434
YIQ	118.0800, 74.9670, -20.5290

Conversions

Conversions Part 2

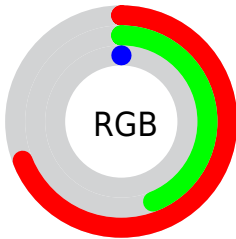
Format	Color
RYB	105, 177, 0
Decimal	11628288
CIELab	52.64, 19.37, 59.71
CIElCh	53, 62.771, 72.027
Yxy	20.7160, 0.5038, 0.4382
Android (android.graphics.Color)	4289818368 (0xFFB16F00)
YUV	118.0800, -58.2134, 51.6728
Hunter-Lab	45.5148, 13.7502, 28.2867

Details

The XYZ color **23.8159, 20.7160, 2.7434** is a dark color, and the websafe version is hex **996600**. A complement of this color would be **9.8842, 7.0711, 42.4385**, and the grayscale version is **17.4061, 18.3126, 19.9424**.

A 20% lighter version of the original color is **49.3112, 44.7532, 11.0403**, and **9.2487, 7.4066, 0.9421** is the 20% darker color. If you saturate the color by 10%, you get **23.8160, 20.7164, 2.7434**, and if you desaturate by 10%, it is **24.6701, 22.2538, 3.5550**.

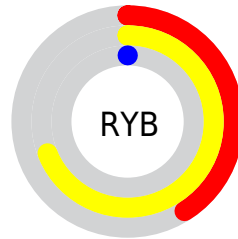
Distribution



Red (69%)

Green (44%)

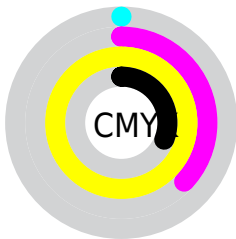
Blue (0%)



Red (41%)

Yellow (69%)

Blue (0%)

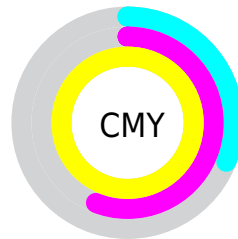


Cyan (0%)

Magenta (37%)

Yellow (100%)

Black (31%)



Cyan (31%)

Magenta (56%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 23.8159, 20.7160, 2.7434 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 23.8159, 20.7160, 2.7434 by changing the saturation by 10% instead.

■ 23.8159, 20.7160,
2.7434

■ 23.8159, 20.7160,
2.7434

264.3462,
255.7653, 133.0222

■ 15.3211, 12.9166,
0.9652

■ 49.1865, 44.6144,
10.9884

■ 9.1328, 7.3711,
0.0000

■ 66.7930, 61.4822,
18.2923

■ 4.8857, 3.6953,
0.0000

■ 88.1674, 82.1415,
28.2751

■ 2.2144, 1.5046,
0.0000

■ 113.6751,
106.9767, 41.3554

■ 0.7503, 0.2920,
0.0000

■ 143.6815,
136.3724, 57.9517

■ 0.0000, 0.0000,
0.0000

■ 178.5519,

170.7128, 78.4826

■ 218.6517,
210.3823, 103.3666

■ 23.8159, 20.7160,
2.7434

■ 23.8159, 20.7160,
2.7434

■ 23.8160, 20.7164,
2.7434

■ 24.6701, 22.2538,
3.5550

■ 25.6741, 23.9375,
4.8893

■ 26.8664, 25.7852,
6.9422

■ 28.2657, 27.8059,
9.8063

■ 29.8877, 30.0077,
13.5601

■ 31.7466, 32.3978,
18.2726

■ 33.8550, 34.9827,
24.0063

■ 36.2246, 37.7687,
30.8179

■ 38.8664, 40.7616,
38.7604

Harmonies

Analogous

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



30.5441, 20.7160, 6.0496



23.8159, 20.7160, 2.7434



17.1922, 20.7160, 2.5136

Triad

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



23.8159, 20.7160, 2.7434



9.7999, 20.7160, 30.8924



29.3287, 20.7160, 61.1039

Complementary

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



23.8159, 20.7160, 2.7434



9.8842, 7.0711, 42.4385

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.



22.4186, 20.7160, 79.0228



23.8159, 20.7160, 2.7434



11.7704, 20.7160, 56.1292

Square

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



23.8159, 20.7160, 2.7434



10.0127, 20.7160, 13.1945



16.0703, 20.7160, 76.8207



34.1789, 20.7160, 35.5434

Rectangle

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



23.8159, 20.7160, 2.7434



13.7633, 20.7160, 3.7591



16.0703, 20.7160, 76.8207



27.1122, 20.7160, 68.7218

Sweetspot

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



23.8164, 20.7171, 2.7438



60.4271, 62.4053, 42.4172



19.1703, 9.7628, 6.3197



12.7494, 13.1044, 8.2375



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



23.8164, 20.7171, 2.7438



42.4351, 36.6648, 4.8404



29.5002, 38.5469, 5.8857



8.9254, 9.3634, 8.9894



17.3153, 15.1292, 2.0076



0.5985, 0.5834, 0.0811

Inverse Universe

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



9.8842, 7.0711, 42.4385



17.5066, 12.2727, 75.9415



8.2379, 3.3302, 41.8032



8.2929, 8.7320, 10.7547



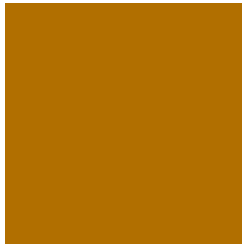
7.2153, 5.2310, 30.7664



0.2841, 0.2788, 0.9871

Previews

White Background



This preview shows how the XYZ color 23.8159, 20.7160, 2.7434 looks on a white background.

Color Contrast Check

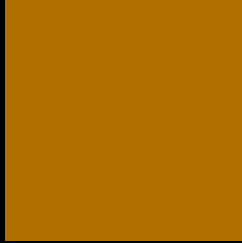
Large Text (above 18pt) WCAG AA ✓ Pass

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 23.8159, 20.7160, 2.7434 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 23.8159, 20.7160, 2.7434

Background



This preview shows how black text looks on a background with the XYZ color 23.8159, 20.7160, 2.7434.



This preview shows how white text looks on a background with the XYZ color 23.8159, 20.7160,

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

23.8159, 20.7160, 2.7434

Protanopia

18.8173, 20.9586, 3.4344

Deuteranopia

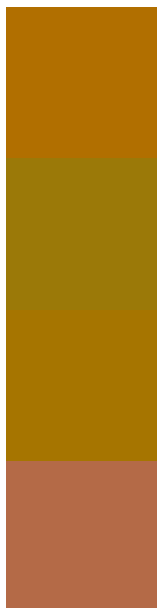
21.0145, 20.8039, 2.9080



Tritanopia

26.7755, 20.6719, 17.6178

Trichromacy



Original Color

23.8159, 20.7160, 2.7434

Protanomaly

20.3988, 20.6608, 3.1425

Deuteranomaly

22.0872, 20.8296, 2.8564

Tritanomaly

25.1138, 20.4663, 8.5880

Monochromacy



Original Color

23.8159, 20.7160, 2.7434

Achromatopsia

17.2197, 18.1164, 19.7288

Achromatomaly

18.0482, 18.2584, 9.2296

CSS Examples

Text

The CSS property to change the color of the text to XYZ 23.8159, 20.7160, 2.7434 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(177, 111, 0)` looks like.

```
.text, #text, p{  
    color:rgb(177, 111, 0)  
}
```

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(177, 111, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 111, 0) }
```

Border

The CSS property to change the border of an element to XYZ 23.8159, 20.7160, 2.7434 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(177, 111, 0) }
```


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

```
.border{ border-color:rgb(177, 111, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 111, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 111, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 111, 0);  
box-shadow:4px 4px 4px 4px rgb(177, 111,  
0) }
```

Background

The CSS property to change the background color of an element to XYZ 23.8159, 20.7160, 2.7434 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 111, 0) }
```

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

```
.background{ background-color: rgb(177,  
111, 0) }
```

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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