

Converting Colors

XYZ(2.4177, 2.8087, 0.4147)

Have a look what the booklet for
XYZ(2.4177, 2.8087, 0.4147)
contains.

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Color

XYZ(2.4222, 2.8177, 0.4162)

Conversions

Conversions Part 1

Format	Color
Hex	333000
RGB	51, 48, 0
RGB Percent	20%, 19%, 0%
CMY	0.8000, 0.8118, 1.0000
CMYK	0.00, 0.06, 1.00, 0.80
HSL	56°, 100%, 10%
HSV	56°, 100%, 20%
XYZ	2.4222, 2.8177, 0.4162
YIQ	43.4250, 17.1960, -14.2920

Conversions

Conversions Part 2

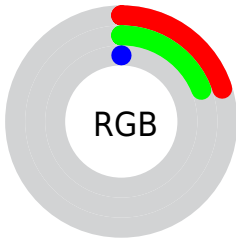
Format	Color
R _Y B	3, 51, 0
Decimal	3354624
CIE Lab	19.30, -5.01, 27.32
CIE LCh	19, 27.776, 100.391
Yxy	2.8177, 0.4282, 0.4982
Android (android.graphics.Color)	4281544704 (0xFF333000)
YUV	43.4250, -21.4085, 6.6433
Hunter-Lab	16.7860, -3.6182, 10.2801

Details

The XYZ color **2.4222, 2.8177, 0.4162** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **0.6301, 0.3041, 3.1575**, and the grayscale version is **2.3567, 2.4794, 2.7000**.

A 20% lighter version of the original color is **9.6614, 10.8633, 4.2769**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **2.4223, 2.8178, 0.4162**, and if you desaturate by 10%, it is **2.4625, 2.8536, 0.5675**.

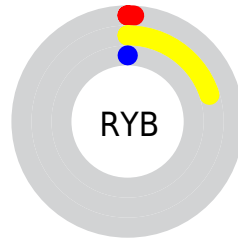
Distribution



Red (20%)

Green (19%)

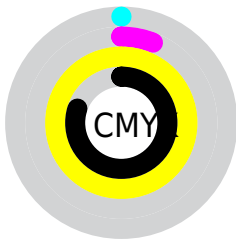
Blue (0%)



Red (1%)

Yellow (20%)

Blue (0%)

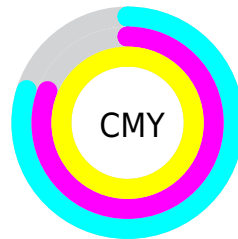


Cyan (0%)

Magenta (6%)

Yellow (100%)

Black (80%)



Cyan (80%)


Magenta (81%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the XYZ color 2.4222, 2.8177, 0.4162 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 2.4222, 2.8177, 0.4162 by changing the saturation by 10% instead.

 2.4222, 2.8177,
0.4162


 2.4222, 2.8177,
0.4162


 116.4823,
126.0270, 91.4675


 0.8562, 1.0373,
0.0000

 9.6611, 10.8334,
4.2837

 0.0000, 0.0000,
0.0000

 16.0648, 17.8376,
8.4364


 24.8116, 27.3517,
14.6589


 36.2671, 39.7604,
23.3698


 50.7966, 55.4478,
34.9876


 68.7653, 74.7984,


49.9307


 90.5388, 98.1967,
68.6178


 2.4222, 2.8177,
0.4162


 2.4222, 2.8177,
0.4162


 2.4223, 2.8178,
0.4162

 2.4625, 2.8536,
0.5675

 2.5028, 2.8896,
0.7188

 2.5478, 2.9275,
0.8941

 2.6019, 2.9692,
1.1167

 2.6655, 3.0149,
1.3897

■ 2.7394, 3.0648,
1.7161

■ 2.8240, 3.1192,
2.0984

■ 2.9198, 3.1781,
2.5392

■ 3.0272, 3.2418,
3.0407

Harmonies

Analogous

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



3.2011, 2.8177, 0.4970



2.4222, 2.8177, 0.4162



1.8357, 2.8177, 0.8472

Triad

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



2.4222, 2.8177, 0.4162



1.7091, 2.8177, 6.6744



4.3110, 2.8177, 4.7046

Complementary

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



2.4222, 2.8177, 0.4162



0.6301, 0.3041, 3.1575

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.



3.7455, 2.8177, 7.5083



2.4222, 2.8177, 0.4162



2.2155, 2.8177, 8.9700

Square

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



2.4222, 2.8177, 0.4162



1.4790, 2.8177, 3.8897



2.9515, 2.8177, 9.3320



4.3954, 2.8177, 2.3710

Rectangle

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



2.4222, 2.8177, 0.4162



1.5946, 2.8177, 1.4254



2.9515, 2.8177, 9.3320



4.1665, 2.8177, 5.6466

Sweetspot

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



2.4223, 2.8178, 0.4163



4.6661, 5.1648, 3.3783



1.3839, 0.7113, 0.1620



1.2980, 1.4381, 0.9292



33.7135, 35.4692, 38.6260



1.4567, 1.5325, 1.6689

Same Dimension

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



2.4223, 2.8178, 0.4163



4.0116, 4.6578, 0.6876



1.6877, 2.6274, 0.4182



0.9227, 0.9851, 0.9495



7.3143, 8.4772, 1.2508



50.1351, 57.9016, 8.5337

Inverse Universe

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



0.6301, 0.3041, 3.1575



1.0346, 0.4815, 5.2392



0.9307, 0.4108, 3.1622



0.8415, 0.8707, 1.0719



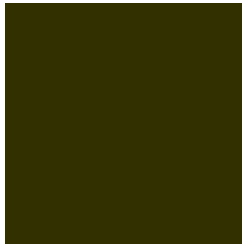
1.8707, 0.8394, 9.5698



12.6326, 5.2781, 65.8282

Previews

White Background



This preview shows how the XYZ color 2.4222, 2.8177, 0.4162 looks on a white background.

Color Contrast Check

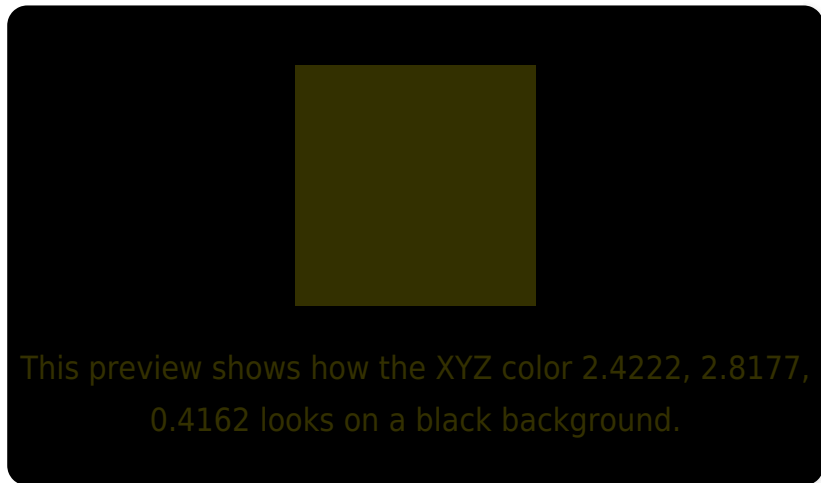
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

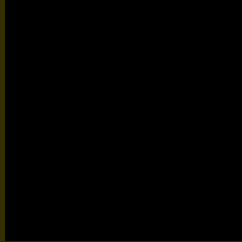
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 2.4222, 2.8177, 0.4162

Background



This preview shows how black text looks on a background with the XYZ color 2.4222, 2.8177, 0.4162.



This preview shows how white text looks on a background with the XYZ color 2.4222, 2.8177, 0.4162.

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

2.4222, 2.8177, 0.4162

Protanopia

2.4847, 2.7899, 0.4075

Deuteranopia

2.7804, 2.8219, 0.5992



Tritanopia

2.9932, 2.8744, 3.1934

Trichromacy



Original Color

2.4222, 2.8177, 0.4162

Protanomaly

2.4327, 2.7631, 0.4051

Deuteranomaly

2.6298, 2.8035, 0.5174

Tritanomaly

2.6925, 2.8098, 1.6968

Monochromacy



Original Color

2.4222, 2.8177, 0.4162

Achromatopsia

2.2962, 2.4158, 2.6308

Achromatomaly

2.2629, 2.5367, 1.4073

CSS Examples

Text

The CSS property to change the color of the text to XYZ 2.4222, 2.8177, 0.4162 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(51, 48, 0)` looks like.

```
.text, #text, p{  
    color:rgb(51, 48, 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(51, 48, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 48, 0) }
```

Border

The CSS property to change the border of an element to XYZ 2.4222, 2.8177, 0.4162 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(51, 48, 0) }
```

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

```
.border{ border-color:rgb(51, 48, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(51, 48, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 48, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(51, 48, 0); box-shadow:4px  
4px 4px 4px rgb(51, 48, 0) }
```


Background

The CSS property to change the background color of an element to XYZ 2.4222, 2.8177, 0.4162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 48, 0) }
```

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

```
.background{ background-color: rgb(51, 48,  
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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