

Converting Colors

XYZ(12.1001, 22.9859, 5.4890)

Have a look what the booklet for
XYZ(12.1001, 22.9859, 5.4890)
contains.

XYZ(12.0256, 22.8307, 5.4420)	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(12.0256, 22.8307,
5.4420)**

Conversions

Conversions Part 1

Format	Color
Hex	1C9824
RGB	28, 152, 36
RGB Percent	11%, 60%, 14%
CMY	0.8902, 0.4039, 0.8588
CMYK	0.82, 0.00, 0.76, 0.40
HSL	124°, 69%, 35%
HSV	124°, 82%, 60%
XYZ	12.0256, 22.8307, 5.4420
YIQ	101.7000, -36.6680, -62.3640

Conversions

Conversions Part 2

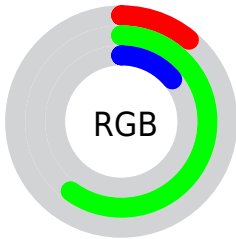
Format	Color
R_{YB}	28, 144, 152
Decimal	1873956
CIE Lab	54.90, -54.58, 48.57
CIE LCh	55, 73.061, 138.338
Yxy	22.8307, 0.2984, 0.5665
Android (android.graphics.Color)	4280064036 (0xFF1C9824)
YUV	101.7000, -32.3901, -64.6349
Hunter-Lab	47.7815, -38.6929, 26.6943

Details

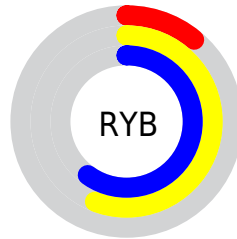
The XYZ color **12.0256, 22.8307, 5.4420** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **18.3989, 9.5200, 27.2539**, and the grayscale version is **12.6404, 13.2986, 14.4822**.

A 20% lighter version of the original color is **29.0458, 47.8883, 17.1637**, and **4.4618, 8.9237, 1.4873** is the 20% darker color. If you saturate the color by 10%, you get **11.5345, 22.5985, 4.5022**, and if you desaturate by 10%, it is **12.8140, 23.2075, 6.8471**.

Distribution



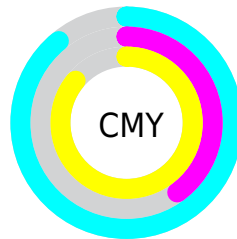
- Red (11%)
- Green (60%)
- Blue (14%)



- Red (11%)
- Yellow (56%)
- Blue (60%)



- Cyan (82%)
- Magenta (0%)
- Yellow (76%)
- Black (40%)



- Cyan (89%)
- Magenta (40%)
- Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.0256, 22.8307, 5.4420 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 12.0256, 22.8307, 5.4420 by changing the saturation by 10% instead.

■ 12.0256, 22.8307,
5.4420

■ 12.0256, 22.8307,
5.4420

198.3411,
266.8542, 163.1116

■ 6.8334, 14.4685,
2.4456

■ 29.1582, 48.1152,
17.2185

■ 3.4036, 8.4473,
0.8111

■ 41.8293, 65.8063,
26.8356

■ 1.3706, 4.3825,
0.0000

■ 57.7241, 87.3759,
39.4968

■ 0.2351, 1.8897,
0.0000

■ 77.2080, 113.2083,
55.6205

■ 0.0000, 0.5422,
0.0000

■ 100.6463,
143.6879, 75.6253

■ 0.0000, 0.0000,
0.0000

■ 128.4043,

179.1992, 99.9297

160.8475,
220.1265, 128.9523

■ 12.0256, 22.8307,
5.4420

■ 12.0256, 22.8307,
5.4420

■ 11.5345, 22.5985,
4.5022

■ 12.8140, 23.2075,
6.8471

■ 11.2824, 22.4788,
4.0259

■ 13.9352, 23.7442,
8.7655

■ 15.4213, 24.4571,
11.2408

■ 17.3003, 25.3597,
14.3117

■ 19.5973, 26.4643,
18.0132

■ 22.3354, 27.7821,
22.3778

■ 25.5362, 29.3235,
27.4358

■ 29.2195, 31.0982,
33.2154

■ 33.4042, 33.1154,
39.7435

Harmonies

Analogous

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



17.1623, 22.8307, 2.0133



12.0256, 22.8307, 5.4420



9.7477, 22.8307, 16.8932

Triad

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



12.0256, 22.8307, 5.4420



18.7034, 22.8307, 99.0513



40.0797, 22.8307, 13.3068

Complementary

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



12.0256, 22.8307, 5.4420



18.3989, 9.5200, 27.2539

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.



40.7900, 22.8307, 35.0015



12.0256, 22.8307, 5.4420



26.9741, 22.8307, 95.7132

Square

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



12.0256, 22.8307, 5.4420



12.9111, 22.8307, 75.2412



35.5277, 22.8307, 67.8202



33.7772, 22.8307, 4.2148

Rectangle

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



12.0256, 22.8307, 5.4420



9.6560, 22.8307, 31.8987



35.5277, 22.8307, 67.8202



41.0293, 22.8307, 18.9392

Sweetspot

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



12.0261, 22.8316, 5.4425



37.9440, 48.3245, 37.1481



23.2573, 28.6341, 5.3999



8.2597, 10.8081, 7.8625



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178

Same Dimension

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



12.0261, 22.8316, 5.4425



19.9642, 39.7017, 7.1148



13.8283, 23.5525, 14.9326



6.1475, 6.9317, 6.7003



9.4642, 18.8491, 3.3993



0.1453, 0.2833, 0.0707

Inverse Universe

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



18.3989, 9.5200, 27.2539



31.5435, 15.3259, 46.6066



14.9572, 8.1433, 9.1306



6.4440, 6.3168, 7.7183



14.9677, 7.2413, 22.1528



0.2282, 0.1100, 0.3547

Previews

White Background



This preview shows how the XYZ color 12.0256, 22.8307, 5.4420 looks on a white background.

Color Contrast Check

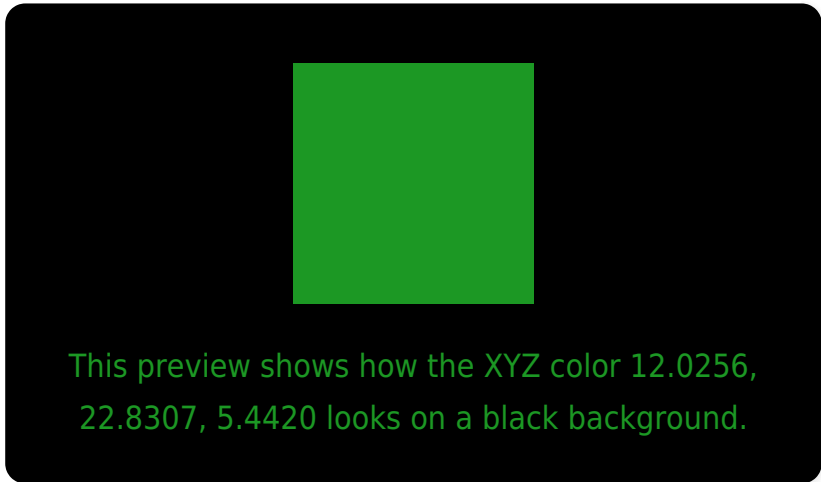
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

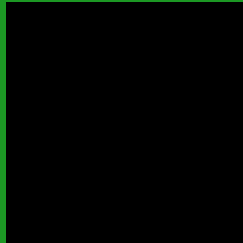
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.0256, 22.8307, 5.4420

Background



This preview shows how black text looks on a background with the XYZ color 12.0256, 22.8307, 5.4420.



This preview shows how white text looks on a background with the XYZ color 12.0256, 22.8307,

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

12.0256, 22.8307, 5.4420

Protanopia

20.3962, 22.5346, 4.5709

Deuteranopia

22.8454, 22.4152, 5.9188



Tritanopia

17.7375, 22.8392, 33.6105

Trichromacy



Original Color

12.0256, 22.8307, 5.4420



Protanomaly

15.2161, 21.5181, 4.7903



Deuteranomaly

15.9192, 20.8095, 5.5605



Tritanomaly

14.5616, 22.4404, 18.3158

Monochromacy



Original Color

12.0256, 22.8307, 5.4420



Achromatopsia

12.6291, 13.2868, 14.4694



Achromatomaly

10.9933, 15.4789, 9.6160

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.0256, 22.8307, 5.4420 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(28, 152, 36)` looks like.

```
.text, #text, p{  
    color:rgb(28, 152, 36)  
}
```

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(28, 152, 36) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(28, 152, 36) }
```

Border

The CSS property to change the border of an element to XYZ 12.0256, 22.8307, 5.4420 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(28, 152, 36) }
```


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

```
.border{ border-color:rgb(28, 152, 36) }
```

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

Here you see how a box with a 4 pixel `rgb(28, 152, 36)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(28, 152, 36); -webkit-box-  
shadow:4px 4px 4px 4px rgb(28, 152, 36);  
box-shadow:4px 4px 4px 4px rgb(28, 152,  
36) }
```

Background

The CSS property to change the background color of an element to XYZ 12.0256, 22.8307, 5.4420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(28, 152, 36) }
```

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

```
.background{ background-color: rgb(28, 152,  
36) }
```

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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