

Converting Colors

XYZ(12.8328, 23.3591, 11.3881)

Have a look what the booklet for
XYZ(12.8328, 23.3591, 11.3881)
contains.

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Color

**XYZ(12.8392, 23.3617,
11.4220)**

Conversions

Conversions Part 1

Format	Color
Hex	009950
RGB	0, 153, 80
RGB Percent	0%, 60%, 31%
CMY	1.0000, 0.4000, 0.6863
CMYK	1.00, 0.00, 0.48, 0.40
HSL	151°, 100%, 30%
HSV	151°, 100%, 60%
XYZ	12.8392, 23.3617, 11.4220
YIQ	98.9310, -67.7550, -55.1390

Conversions

Conversions Part 2

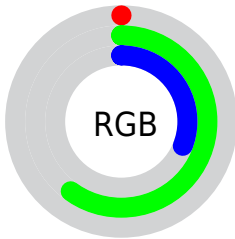
Format	Color
RYB	0, 100, 153
Decimal	39248
CIELab	55.44, -51.40, 28.85
CIELCh	55, 58.940, 150.690
Yxy	23.3617, 0.2696, 0.4906
Android (android.graphics.Color)	4278229328 (0xFF009950)
YUV	98.9310, -9.3330, -86.7625
Hunter-Lab	48.3339, -37.1685, 19.8227

Details

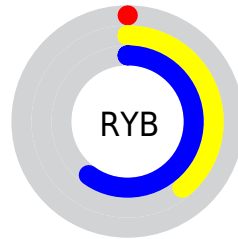
The XYZ color **12.8392, 23.3617, 11.4220** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **14.3402, 7.2537, 6.9483**, and the grayscale version is **11.8779, 12.4965, 13.6087**.

A 20% lighter version of the original color is **30.6675, 49.1911, 28.9976**, and **4.8317, 9.2241, 2.9646** is the 20% darker color. If you saturate the color by 10%, you get **12.8397, 23.3626, 11.4222**, and if you desaturate by 10%, it is **13.3264, 23.5806, 12.9309**.

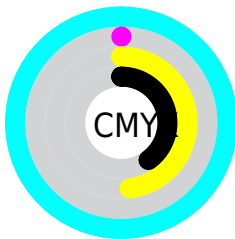
Distribution



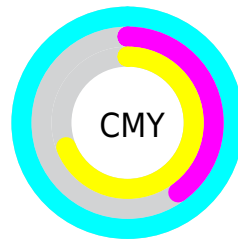
- Red (0%)
- Green (60%)
- Blue (31%)



- Red (0%)
- Yellow (39%)
- Blue (60%)



- Cyan (100%)
- Magenta (0%)
- Yellow (48%)
- Black (40%)





- Cyan (100%)
- Magenta (40%)
- Yellow (69%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.8392, 23.3617, 11.4220 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 12.8392, 23.3617, 11.4220 by changing the saturation by 10% instead.

 12.8392, 23.3617,
11.4220


 12.8392, 23.3617,
11.4220

203.5430,
269.5774, 211.3806


 7.3941, 14.8608,
6.2337


 30.6184, 48.9866,
29.0864


 3.7583, 8.7218,
2.9166


 43.6832, 66.8793,
42.3996


 1.5663, 4.5601,
1.0522

 60.0187, 88.6715,
59.2582

 0.3703, 1.9916,
0.0000

 79.9901, 114.7475,
80.0806

 0.0000, 0.6026,
0.0000

 103.9630,
145.4917, 105.2856

 0.0000, 0.0000,
0.0000

 132.3025,

181.2884, 135.2915

165.3740,
222.5222, 170.5170

■ 12.8392, 23.3617,
11.4220

■ 12.8392, 23.3617,
11.4220

■ 12.8397, 23.3626,
11.4222

■ 13.3264, 23.5806,
12.9309

■ 13.9924, 23.8876,
14.6053

■ 14.9076, 24.3194,
16.4535

■ 16.1000, 24.8905,
18.4812

■ 17.5942, 25.6134,
20.6935

■ 19.4115, 26.4989,
23.0954

■ 21.5715, 27.5572,
25.6917

■ 24.0920, 28.7973,
28.4870

■ 26.9896, 30.2277,
31.4857

Harmonies

Analogous

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



16.3121, 23.3617, 5.1850



12.8392, 23.3617, 11.4220



11.7400, 23.3617, 25.8793

Triad

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



12.8392, 23.3617, 11.4220



22.3585, 23.3617, 82.2047



35.0723, 23.3617, 10.9811

Complementary

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



12.8392, 23.3617, 11.4220



14.3402, 7.2537, 6.9483

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.



37.5491, 23.3617, 24.9996



12.8392, 23.3617, 11.4220



29.3685, 23.3617, 71.5301

Square

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



12.8392, 23.3617, 11.4220



16.5297, 23.3617, 72.4100



35.2810, 23.3617, 47.8260



29.0491, 23.3617, 5.0341

Rectangle

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



12.8392, 23.3617, 11.4220



12.2853, 23.3617, 40.6421



35.2810, 23.3617, 47.8260



36.3953, 23.3617, 14.5939

Sweetspot

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



12.8398, 23.3626, 11.4225



38.3828, 49.2282, 45.7227



14.2121, 24.2374, 3.9293



8.1332, 10.7022, 9.6933



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.



12.8398, 23.3626, 11.4225



22.8991, 41.8003, 19.9577



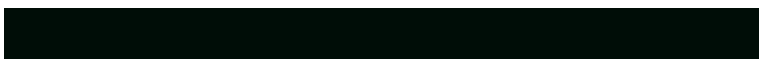
16.7288, 24.2575, 33.9387



6.2603, 6.9768, 7.2940



10.6283, 19.3148, 9.5292



0.1773, 0.2961, 0.2392

Inverse Universe

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



14.3402, 7.2537, 6.9483



25.5877, 12.9529, 11.9545



13.1651, 6.8280, 0.6242



6.3254, 6.2693, 7.0935



11.8680, 6.0015, 5.8301



0.1956, 0.0970, 0.1831

Previews

White Background



This preview shows how the XYZ color 12.8392, 23.3617, 11.4220 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 12.8392, 23.3617, 11.4220 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

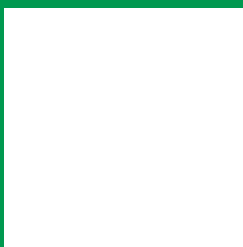
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.8392, 23.3617, 11.4220

Background



This preview shows how black text looks on a background with the XYZ color 12.8392, 23.3617, 11.4220.



This preview shows how white text looks on a background with the XYZ color 12.8392, 23.3617,

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

12.8392, 23.3617, 11.4220

Protanopia

21.1309, 23.0033, 9.6297

Deuteranopia

23.4792, 22.9808, 12.2151



Tritanopia

17.7189, 23.2464, 35.0056

Trichromacy



Original Color

12.8392, 23.3617, 11.4220



Protanomaly

15.0962, 21.5533, 10.2020



Deuteranomaly

15.7712, 21.0151, 11.6126



Tritanomaly

15.0929, 22.8193, 24.0312

Monochromacy



Original Color

12.8392, 23.3617, 11.4220



Achromatopsia

11.8596, 12.4772, 13.5877



Achromatomaly

10.5785, 15.0231, 12.4674

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.8392, 23.3617, 11.4220 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(0, 153, 80)` looks like.

```
.text, #text, p{  
    color:rgb(0, 153, 80)  
}
```

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(0, 153, 80) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 153, 80) }
```

Border

The CSS property to change the border of an element to XYZ 12.8392, 23.3617, 11.4220 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(0, 153, 80) }
```


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

```
.border{ border-color:rgb(0, 153, 80) }
```

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

Here you see how a box with a 4 pixel rgb(0, 153, 80) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 153, 80); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 153, 80);  
box-shadow:4px 4px 4px 4px rgb(0, 153, 80)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.8392, 23.3617, 11.4220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 153, 80) }
```

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

```
.background{ background-color: rgb(0, 153,  
80) }
```

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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