

Converting Colors

XYZ(12.2656, 23.8517, 4.4302)

Have a look what the booklet for
XYZ(12.2656, 23.8517, 4.4302)
contains.

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Color

**XYZ(12.3353, 23.9965,
4.4719)**

Conversions

Conversions Part 1

Format	Color
Hex	179C10
RGB	23, 156, 16
RGB Percent	9%, 61%, 6%
CMY	0.9098, 0.3882, 0.9372
CMYK	0.85, 0.00, 0.90, 0.39
HSL	117°, 81%, 34%
HSV	117°, 90%, 61%
XYZ	12.3353, 23.9965, 4.4719
YIQ	100.2730, -34.3280, -71.7360

Conversions

Conversions Part 2

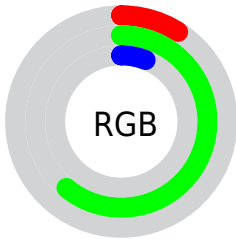
Format	Color
RYB	16, 156, 149
Decimal	1547280
CIELab	56.08, -57.56, 55.28
CIELCh	56, 79.806, 136.158
Yxy	23.9965, 0.3023, 0.5881
Android (android.graphics.Color)	4279737360 (0xFF179C10)
YUV	100.2730, -41.5466, -67.7684
Hunter-Lab	48.9862, -40.7775, 28.8778

Details

The XYZ color **12.3353, 23.9965, 4.4719** is a dark color, and the websafe version is hex **009900**. A complement of this color would be **18.5838, 9.1624, 32.2428**, and the grayscale version is **12.2927, 12.9329, 14.0839**.

A 20% lighter version of the original color is **29.8128, 50.1642, 15.1325**, and **4.8502, 9.7005, 1.6167** is the 20% darker color. If you saturate the color by 10%, you get **11.9936, 23.8316, 3.9796**, and if you desaturate by 10%, it is **12.9371, 24.2887, 5.3453**.

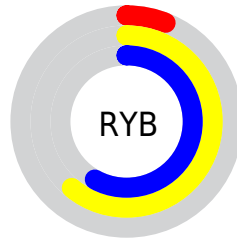
Distribution



Red (9%)

Green (61%)

Blue (6%)



Red (6%)

Yellow (61%)

Blue (58%)

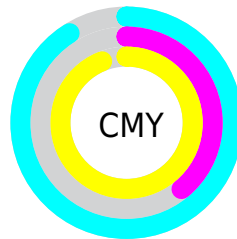


Cyan (85%)

Magenta (0%)

Yellow (90%)

Black (39%)



Cyan (91%)


Magenta (39%)


Yellow (94%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 12.3353, 23.9965, 4.4719 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 12.3353, 23.9965, 4.4719 by changing the saturation by 10% instead.


 12.3353, 23.9965,
4.4719


 12.3353, 23.9965,
4.4719


200.3375,
272.8028, 153.3344


 7.0463, 15.3310,
1.8876


 29.7159, 50.0245,
15.0843


 3.5377, 9.0520,
0.4848


 42.5382, 68.1558,
23.9494


 1.4440, 4.7751,
0.0000

 58.6023, 90.2112,
35.7453

 0.2873, 2.1159,
0.0000

 78.2736, 116.5750,
50.8905


 0.0000, 0.6736,
0.0000


 101.9174,
147.6317, 69.8034


 0.0000, 0.0000,
0.0000


 129.8991,


183.7656, 92.9027


 162.5840,
225.3612, 120.6068


 12.3353, 23.9965,
4.4719


 12.3353, 23.9965,
4.4719


 11.9936, 23.8316,
3.9796


 12.9371, 24.2887,
5.3453

 11.9864, 23.8282,
3.9675

 13.8557, 24.7321,
6.7552

 15.1275, 25.3444,
8.7697

 16.7834, 26.1405,
11.4464

 18.8509, 27.1335,
14.8362

■ 21.3553, 28.3353,
18.9851

■ 24.3193, 29.7568,
23.9352

■ 27.7646, 31.4084,
29.7254

■ 31.7112, 33.2994,
36.3923

Harmonies

Analogous

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



18.2583, 23.9965, 1.4706



12.3353, 23.9965, 4.4719



9.6455, 23.9965, 15.8415

Triad

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



12.3353, 23.9965, 4.4719



18.8564, 23.9965, 111.8025



44.1955, 23.9965, 14.4749

Complementary

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



12.3353, 23.9965, 4.4719



18.5838, 9.1624, 32.2428

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.



44.4820, 23.9965, 40.1145



12.3353, 23.9965, 4.4719



28.0568, 23.9965, 110.4202

Square

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



12.3353, 23.9965, 4.4719



12.6718, 23.9965, 81.8400



37.9772, 23.9965, 78.7984



37.2758, 23.9965, 4.0429

Rectangle

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



12.3353, 23.9965, 4.4719



9.4169, 23.9965, 31.9080



37.9772, 23.9965, 78.7984



45.1234, 23.9965, 21.0921

Sweetspot

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



12.3359, 23.9975, 4.4724



39.8983, 51.9966, 36.3338



24.5525, 28.6016, 4.7172



8.4345, 11.2761, 7.4209



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



12.3359, 23.9975, 4.4724



21.7203, 43.2514, 7.2036



13.5144, 24.4528, 11.4061



6.5799, 7.4161, 7.0703



9.8817, 19.6309, 3.2683



0.1847, 0.3551, 0.0588

Inverse Universe

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



18.5838, 9.1624, 32.2428



33.1007, 15.8050, 58.4328



15.8724, 8.2295, 11.1093



6.8714, 6.7377, 8.3450



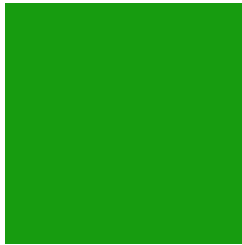
15.0431, 7.1840, 26.5010



0.2779, 0.1331, 0.4743

Previews

White Background



This preview shows how the XYZ color 12.3353, 23.9965, 4.4719 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 12.3353, 23.9965, 4.4719 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

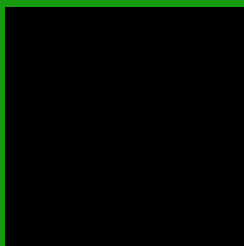
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.3353, 23.9965, 4.4719

Background



This preview shows how black text looks on a background with the XYZ color 12.3353, 23.9965, 4.4719.



This preview shows how white text looks on a background with the XYZ color 12.3353, 23.9965,

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

12.3353, 23.9965, 4.4719

Protanopia

21.3095, 23.6383, 3.5544

Deuteranopia

24.0717, 23.6371, 5.0440



Tritanopia

18.5951, 23.9141, 35.5341

Trichromacy



Original Color

12.3353, 23.9965, 4.4719



Protanomaly

15.4258, 22.3066, 3.7223



Deuteranomaly

16.3805, 21.9105, 4.5282



Tritanomaly

14.7651, 23.2656, 17.3482

Monochromacy



Original Color

12.3353, 23.9965, 4.4719



Achromatopsia

12.1130, 12.7438, 13.8780



Achromatomaly

10.4631, 15.2403, 8.0204

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3353, 23.9965, 4.4719 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(23, 156, 16)` looks like.

```
.text, #text, p{  
    color:rgb(23, 156, 16)  
}
```

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(23, 156, 16) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 156, 16) }
```

Border

The CSS property to change the border of an element to XYZ 12.3353, 23.9965, 4.4719 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(23, 156, 16) }
```


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

```
.border{ border-color:rgb(23, 156, 16) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 156, 16)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 156, 16); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 156, 16);  
box-shadow:4px 4px 4px 4px rgb(23, 156,  
16) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3353, 23.9965, 4.4719 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 156, 16) }
```

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

```
.background{ background-color: rgb(23, 156,  
16) }
```

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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