

Converting Colors

XYZ(12.7790, 23.4979, 3.8620)

Have a look what the booklet for
XYZ(12.7790, 23.4979, 3.8620)
contains.

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Color

**XYZ(12.7565, 23.4863,
3.8610)**

Conversions

Conversions Part 1

Format	Color
Hex	339900
RGB	51, 153, 0
RGB Percent	20%, 60%, 0%
CMY	0.8000, 0.4000, 0.9999
CMYK	0.67, 0.00, 1.00, 0.40
HSL	100°, 100%, 30%
HSV	100°, 100%, 60%
XYZ	12.7565, 23.4863, 3.8610
YIQ	105.0600, -11.6790, -69.2070

Conversions

Conversions Part 2

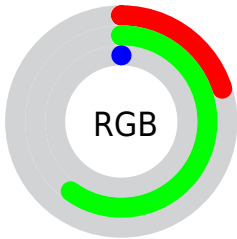
Format	Color
RYB	0, 153, 102
Decimal	3381504
CIELab	55.57, -52.49, 57.69
CIELCh	56, 77.998, 132.300
Yxy	23.4863, 0.3181, 0.5856
Android (android.graphics.Color)	4281571584 (0xFF339900)
YUV	105.0600, -51.7946, -47.4106
Hunter-Lab	48.4627, -37.8243, 29.2003

Details

The XYZ color **12.7565, 23.4863, 3.8610** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **11.2315, 5.1260, 30.5358**, and the grayscale version is **13.5828, 14.2902, 15.5620**.

A 20% lighter version of the original color is **30.3435, 48.9987, 13.6528**, and **4.6537, 9.3074, 1.5512** is the 20% darker color. If you saturate the color by 10%, you get **12.7565, 23.4870, 3.8611**, and if you desaturate by 10%, it is **13.4171, 23.8173, 4.3538**.

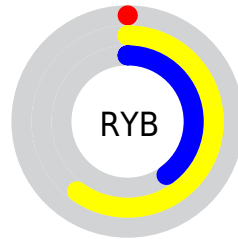
Distribution



Red (20%)

Green (60%)

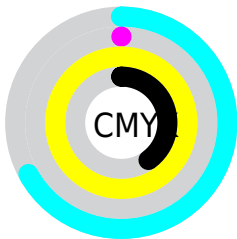
Blue (0%)



Red (0%)

Yellow (60%)

Blue (40%)

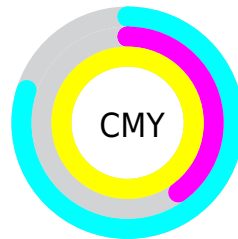


Cyan (67%)

Magenta (0%)

Yellow (100%)

Black (40%)



Cyan (80%)

Magenta (40%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7565, 23.4863, 3.8610 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 12.7565, 23.4863, 3.8610 by changing the saturation by 10% instead.

■ 12.7565, 23.4863,
3.8610

■ 12.7565, 23.4863,
3.8610

203.0205,
270.2130, 146.6676

■ 7.3369, 14.9530,
1.5494

■ 30.4707, 49.1906,
13.6879

■ 3.7219, 8.7864,
0.2543

■ 43.4960, 67.1304,
22.0403

■ 1.5460, 4.6021,
0.0000

■ 59.7873, 88.9745,
33.2433

■ 0.3568, 2.0158,
0.0000

■ 79.7099, 115.1072,
47.7156


■ 0.0000, 0.6166,
0.0000


■ 103.6291,
145.9131, 65.8756


■ 0.0000, 0.0000,
0.0000


■ 131.9104,


181.7764, 88.1419


 164.9191,
223.0816, 114.9331


 12.7565, 23.4863,
3.8610


 12.7565, 23.4863,
3.8610


 12.7565, 23.4870,
3.8611

 13.4171, 23.8173,
4.3538

 14.2621, 24.2352,
5.1960

 15.3285, 24.7562,
6.5464

 16.6340, 25.3880,
8.4689

 18.1944, 26.1376,
11.0178

■ 20.0239, 27.0113,
14.2413

■ 22.1357, 28.0149,
18.1826

■ 24.5417, 29.1538,
22.8815

■ 27.2536, 30.4330,
28.3749

Harmonies

Analogous

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



18.9067, 23.4863, 1.4302



12.7565, 23.4863, 3.8610



9.7657, 23.4863, 13.4811

Triad

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



12.7565, 23.4863, 3.8610



17.5607, 23.4863, 105.1722



43.2899, 23.4863, 16.5707

Complementary

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



12.7565, 23.4863, 3.8610



11.2315, 5.1260, 30.5358

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.



42.6511, 23.4863, 43.3306



12.7565, 23.4863, 3.8610



26.1279, 23.4863, 108.2366

Square

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



12.7565, 23.4863, 3.8610



11.9954, 23.4863, 74.0613



35.7678, 23.4863, 80.8204



37.3346, 23.4863, 4.8513

Rectangle

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



12.7565, 23.4863, 3.8610



9.3187, 23.4863, 27.5686



35.7678, 23.4863, 80.8204



43.8758, 23.4863, 23.6753

Sweetspot

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



12.7570, 23.4873, 3.8615



39.3986, 50.0545, 32.0993



17.8895, 16.2766, 2.1992



8.3672, 10.8947, 6.4600



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.



12.7570, 23.4873, 3.8615



22.6666, 41.9691, 6.9062



11.5729, 22.8560, 4.7506



6.3165, 7.0206, 6.6280



10.5750, 19.4275, 3.1925



0.1939, 0.3089, 0.0494

Inverse Universe

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



11.2315, 5.1260, 30.5358



19.9091, 9.0740, 54.6741



17.0013, 8.3184, 20.9611



6.2611, 6.2205, 7.7996



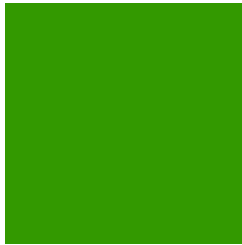
9.3180, 4.2546, 25.2378



0.1775, 0.0833, 0.3791

Previews

White Background



This preview shows how the XYZ color 12.7565, 23.4863, 3.8610 looks on a white background.

Color Contrast Check

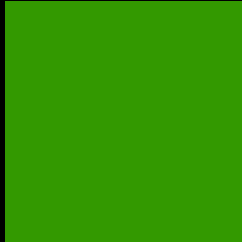
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7565, 23.4863, 3.8610 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

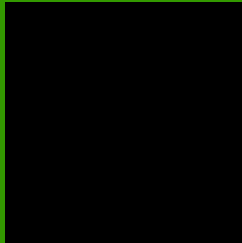
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.7565, 23.4863, 3.8610

Background



This preview shows how black text looks on a background with the XYZ color 12.7565, 23.4863, 3.8610.



This preview shows how white text looks on a background with the XYZ color 12.7565, 23.4863,

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

12.7565, 23.4863, 3.8610

Protanopia

20.7820, 23.1646, 3.3759

Deuteranopia

23.4475, 23.1330, 4.5958



Tritanopia

18.8140, 23.3846, 34.0939

Trichromacy



Original Color

12.7565, 23.4863, 3.8610

Protanomaly

16.1881, 22.2669, 3.4447

Deuteranomaly

17.2426, 21.9439, 3.9886

Tritanomaly

14.9377, 22.7048, 15.1504

Monochromacy



Original Color

12.7565, 23.4863, 3.8610

Achromatopsia

13.4271, 14.1263, 15.3836

Achromatomaly

11.7190, 16.2556, 7.8302

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7565, 23.4863, 3.8610 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, 153, 0)` looks like.

```
.text, #text, p{  
    color:rgb(51, 153, 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, 153, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 153, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.7565, 23.4863, 3.8610 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, 153, 0) }
```


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

```
.border{ border-color:rgb(51, 153, 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, 153, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 153, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 153, 0);  
box-shadow:4px 4px 4px 4px rgb(51, 153, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.7565, 23.4863, 3.8610 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 153, 0) }
```

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

```
.background{ background-color: rgb(51, 153,  
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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