

Converting Colors

XYZ(12.7634, 22.9298, 2.9689)

Have a look what the booklet for
XYZ(12.7634, 22.9298, 2.9689)
contains.

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Color

**XYZ(12.9911, 23.1253,
3.7789)**

Conversions

Conversions Part 1

Format	Color
Hex	3D9700
RGB	61, 151, 0
RGB Percent	24%, 59%, 0%
CMY	0.7608, 0.4078, 1.0000
CMYK	0.60, 0.00, 1.00, 0.41
HSL	96°, 100%, 30%
HSV	96°, 100%, 59%
XYZ	12.9911, 23.1253, 3.7789
YIQ	106.8760, -5.1690, -66.0410

Conversions

Conversions Part 2

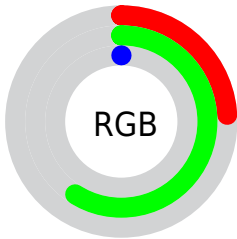
Format	Color
RYB	0, 151, 90
Decimal	4036352
CIELab	55.20, -49.35, 57.52
CIELCh	55, 75.788, 130.624
Yxy	23.1253, 0.3256, 0.5796
Android (android.graphics.Color)	4282226432 (0xFF3D9700)
YUV	106.8760, -52.6899, -40.2333
Hunter-Lab	48.0888, -35.9339, 29.0030

Details

The XYZ color **12.9911, 23.1253, 3.7789** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **9.8040, 4.4090, 29.6137**, and the grayscale version is **14.0841, 14.8176, 16.1364**.

A 20% lighter version of the original color is **30.9225, 48.5779, 13.5410**, and **4.4618, 8.9237, 1.4873** is the 20% darker color. If you saturate the color by 10%, you get **12.9912, 23.1260, 3.7791**, and if you desaturate by 10%, it is **13.6800, 23.4711, 4.2655**.

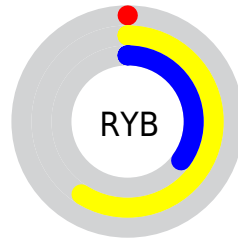
Distribution



Red (24%)

Green (59%)

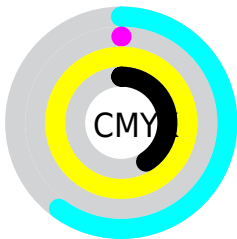
Blue (0%)



Red (0%)

Yellow (59%)

Blue (35%)

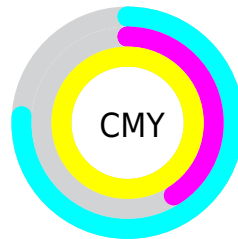


Cyan (60%)

Magenta (0%)

Yellow (100%)

Black (41%)



Cyan (76%)

Magenta (41%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9911, 23.1253, 3.7789 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 12.9911, 23.1253, 3.7789 by changing the saturation by 10% instead.

■ 12.9911, 23.1253,
3.7789

■ 12.9911, 23.1253,
3.7789

204.4994,
268.3679, 145.7352

■ 7.4994, 14.6861,
1.5048

■ 30.8892, 48.5990,
13.4965

■ 3.8254, 8.5993,
0.2215

■ 44.0264, 66.4022,
21.7772

■ 1.6038, 4.4808,
0.0000

■ 60.4427, 88.0956,
32.8972

■ 0.3949, 1.9460,
0.0000

■ 80.5035, 114.0634,
47.2750


■ 0.0000, 0.5758,
0.0000


■ 104.5743,
144.6902, 65.3291


■ 0.0000, 0.0000,
0.0000


■ 133.0202,


180.3603, 87.4782


 166.2068,
221.4580, 114.1407


 12.9911, 23.1253,
3.7789


 12.9911, 23.1253,
3.7789


 12.9912, 23.1260,
3.7791

 13.6800, 23.4711,
4.2655

 14.5288, 23.8913,
5.0883

 15.5716, 24.4009,
6.4034

 16.8238, 25.0064,
8.2723

 18.2992, 25.7137,
10.7477

■ 20.0098, 26.5281,
13.8760

■ 21.9669, 27.4544,
17.6991

■ 24.1809, 28.4972,
22.2553

■ 26.6617, 29.6608,
27.5803

Harmonies

Analogous

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



19.1124, 23.1253, 1.5309



12.9911, 23.1253, 3.7789



9.9193, 23.1253, 12.6603

Triad

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



12.9911, 23.1253, 3.7789



17.0081, 23.1253, 99.7688



42.1830, 23.1253, 17.5232

Complementary

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



12.9911, 23.1253, 3.7789



9.8040, 4.4090, 29.6137

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.



41.1976, 23.1253, 44.0366



12.9911, 23.1253, 3.7789



25.1208, 23.1253, 104.4523

Square

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



12.9911, 23.1253, 3.7789



11.7925, 23.1253, 69.3835



34.3780, 23.1253, 79.7515



36.8003, 23.1253, 5.3856

Rectangle

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



12.9911, 23.1253, 3.7789



9.3871, 23.1253, 25.6909



34.3780, 23.1253, 79.7515



42.6141, 23.1253, 24.6750

Sweetspot

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



12.9916, 23.1263, 3.7794



39.1123, 49.0587, 31.2425



16.2602, 13.5738, 1.7633



8.5709, 10.9997, 6.4696



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.



12.9916, 23.1263, 3.7794



23.0693, 41.3136, 6.7584



11.1373, 22.1622, 4.0579



6.3566, 7.0413, 6.6299



11.0821, 19.6889, 3.2163



0.2052, 0.3147, 0.0499

Inverse Universe

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



9.8040, 4.4090, 29.6137



17.3451, 7.7861, 53.0224



17.3811, 8.4270, 24.9151



6.2197, 6.1991, 7.7977



8.3725, 3.7672, 25.1936



0.1662, 0.0775, 0.3786

Previews

White Background



This preview shows how the XYZ color 12.9911, 23.1253, 3.7789 looks on a white background.

Color Contrast Check

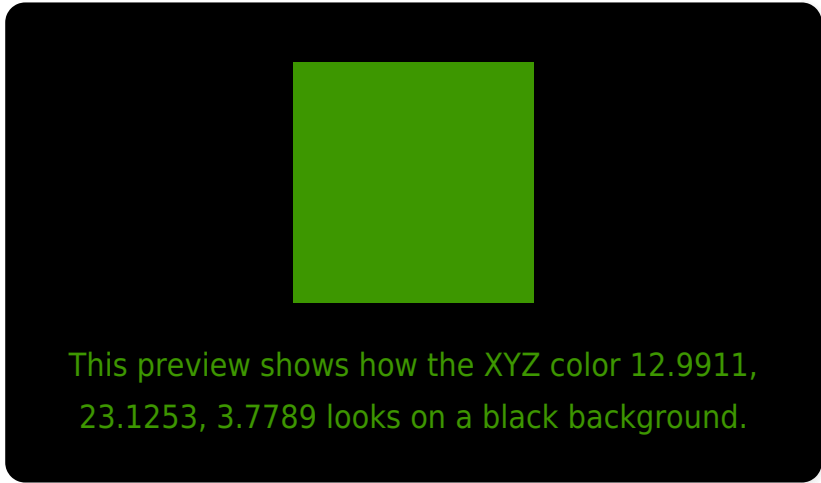
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.9911, 23.1253, 3.7789

Background



This preview shows how black text looks on a background with the XYZ color 12.9911, 23.1253, 3.7789.



This preview shows how white text looks on a background with the XYZ color 12.9911, 23.1253,

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

12.9911, 23.1253, 3.7789

Protanopia

20.4640, 22.7984, 3.3220

Deuteranopia

23.1114, 22.7708, 4.5436



Tritanopia

18.7919, 22.9545, 33.1460

Trichromacy



Original Color

12.9911, 23.1253, 3.7789

Protanomaly

16.4351, 22.1782, 3.4146

Deuteranomaly

17.4038, 21.6127, 3.9162

Tritanomaly

15.1114, 22.3461, 14.8260

Monochromacy



Original Color

12.9911, 23.1253, 3.7789

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

12.3428, 16.7569, 8.0527

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9911, 23.1253, 3.7789 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(61, 151, 0)` looks like.

```
.text, #text, p{  
    color:rgb(61, 151, 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(61, 151, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(61, 151, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.9911, 23.1253, 3.7789 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(61, 151, 0) }
```


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

```
.border{ border-color:rgb(61, 151, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(61, 151, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(61, 151, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(61, 151, 0);  
box-shadow:4px 4px 4px 4px rgb(61, 151, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9911, 23.1253, 3.7789 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(61, 151, 0) }
```

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

```
.background{ background-color: rgb(61, 151,  
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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