

Converting Colors

XYZ(12.3778, 18.8380, 0.6513)

Have a look what the booklet for
XYZ(12.3778, 18.8380, 0.6513)
contains.

XYZ(12.9017, 19.1022, 3.0071)	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(12.9017, 19.1022,
3.0071)**

Conversions

Conversions Part 1

Format	Color
Hex	5D8500
RGB	93, 133, 0
RGB Percent	36%, 52%, 0%
CMY	0.6353, 0.4784, 1.0000
CMYK	0.30, 0.00, 1.00, 0.48
HSL	78°, 100%, 26%
HSV	78°, 100%, 52%
XYZ	12.9017, 19.1022, 3.0071
YIQ	105.8780, 18.8530, -49.8430

Conversions

Conversions Part 2

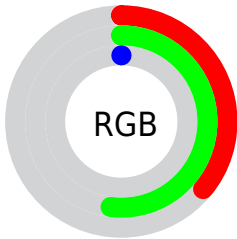
Format	Color
R_{YB}	0, 133, 40
Decimal	6128896
CIE Lab	50.81, -30.99, 54.73
CIE LCh	51, 62.897, 119.524
Yxy	19.1022, 0.3685, 0.5456
Android (android.graphics.Color)	4284318976 (0xFF5D8500)
YUV	105.8780, -52.1979, -11.2940
Hunter-Lab	43.7061, -23.7938, 26.5149

Details

The XYZ color **12.9017, 19.1022, 3.0071** is a dark color, and the websafe version is hex **669900**. A complement of this color would be **5.1095, 2.1451, 22.3362**, and the grayscale version is **13.8017, 14.5205, 15.8128**.

A 20% lighter version of the original color is **30.5749, 41.7142, 11.5944**, and **4.0077, 6.6579, 1.0739** is the 20% darker color. If you saturate the color by 10%, you get **12.9018, 19.1029, 3.0072**, and if you desaturate by 10%, it is **13.3924, 19.3472, 3.4198**.

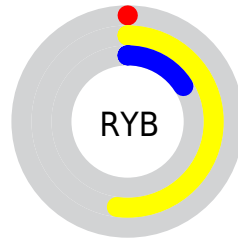
Distribution



Red (36%)

Green (52%)

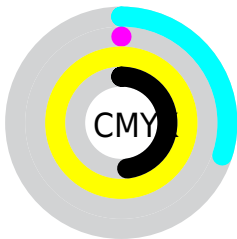
Blue (0%)



Red (0%)

Yellow (52%)

Blue (16%)

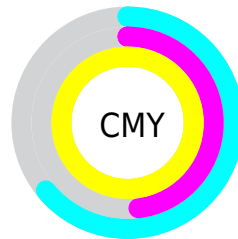


Cyan (30%)

Magenta (0%)

Yellow (100%)

Black (48%)



Cyan (64%)

Magenta (48%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.9017, 19.1022, 3.0071 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 12.9017, 19.1022, 3.0071 by changing the saturation by 10% instead.

■ 12.9017, 19.1022,
3.0071

■ 12.9017, 19.1022,
3.0071

203.9371,
247.0124, 136.4510

■ 7.4374, 11.7441,
1.0983

■ 30.7299, 41.9067,
11.6460

■ 3.7859, 6.5697,
0.0000

■ 43.8245, 58.1220,
19.2130

■ 1.5817, 3.1945,
0.0000

■ 60.1933, 78.0584,
29.5033

■ 0.3805, 1.2341,
0.0000

■ 80.2016, 102.1005,
42.9353


■ 0.0000, 0.0893,
0.0000


■ 104.2148,
130.6325, 59.9275


■ 0.0000, 0.0000,
0.0000


■ 132.5982,


164.0389, 80.8985


 165.7171,
202.7041, 106.2668


 12.9017, 19.1022,
3.0071


 12.9017, 19.1022,
3.0071


 12.9018, 19.1029,
3.0072

 13.3924, 19.3472,
3.4198

 13.9482, 19.6200,
4.0653

 14.5953, 19.9318,
5.0775

 15.3423, 20.2862,
6.5006

 16.1968, 20.6862,
8.3727

■ 17.1655, 21.1344,
10.7275

■ 18.2544, 21.6334,
13.5954

■ 19.4691, 22.1854,
17.0043

■ 20.8147, 22.7925,
20.9802

Harmonies

Analogous

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



18.2551, 19.1022, 1.9458



12.9017, 19.1022, 3.0071



9.7117, 19.1022, 7.8624

Triad

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



12.9017, 19.1022, 3.0071



12.7659, 19.1022, 66.1517



32.8404, 19.1022, 21.0833

Complementary

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



12.9017, 19.1022, 3.0071



5.1095, 2.1451, 22.3362

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.



30.4608, 19.1022, 43.3074



12.9017, 19.1022, 3.0071



18.0574, 19.1022, 76.8607

Square

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



12.9017, 19.1022, 3.0071



9.6467, 19.1022, 42.5131



24.6725, 19.1022, 66.7656



30.6005, 19.1022, 8.1214

Rectangle

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



12.9017, 19.1022, 3.0071



8.7901, 19.1022, 15.1987



24.6725, 19.1022, 66.7656



32.5474, 19.1022, 27.6296

Sweetspot

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



12.9021, 19.1030, 3.0075



32.5469, 38.6746, 23.9611



10.4291, 6.4982, 0.7049



7.1711, 8.6392, 4.9656



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.9021, 19.1030, 3.0075



22.9396, 34.1233, 5.3774



8.8297, 17.0036, 2.8169



4.9070, 5.3546, 5.0043



12.2969, 18.1992, 2.8647



0.0500, 0.0669, 0.0103

Inverse Universe

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



5.1095, 2.1451, 22.3362



9.0059, 3.7669, 39.9908



10.2260, 4.7827, 22.5756



4.5565, 4.6075, 5.8499



4.8738, 2.0467, 21.2749



0.0236, 0.0105, 0.0740

Previews

White Background



This preview shows how the XYZ color 12.9017, 19.1022, 3.0071 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 12.9017, 19.1022, 3.0071 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

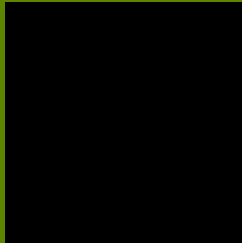
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.9017, 19.1022, 3.0071

Background



This preview shows how black text looks on a background with the XYZ color 12.9017, 19.1022, 3.0071.



This preview shows how white text looks on a background with the XYZ color 12.9017, 19.1022,

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

12.9017, 19.1022, 3.0071

Protanopia

16.9907, 18.9090, 2.7543

Deuteranopia

19.1417, 18.7802, 3.5358



Tritanopia

17.3851, 19.1729, 24.9748

Trichromacy



Original Color

12.9017, 19.1022, 3.0071

Protanomaly

15.0793, 18.6603, 2.8070

Deuteranomaly

16.2910, 18.5374, 3.2097

Tritanomaly

14.5959, 18.6013, 11.4155

Monochromacy



Original Color

12.9017, 19.1022, 3.0071

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.6253, 15.6627, 7.6680

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.9017, 19.1022, 3.0071 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(93, 133, 0)` looks like.

```
.text, #text, p{  
    color:rgb(93, 133, 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(93, 133, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 133, 0) }
```

Border

The CSS property to change the border of an element to XYZ 12.9017, 19.1022, 3.0071 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(93, 133, 0) }
```


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

```
.border{ border-color:rgb(93, 133, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(93, 133, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 133, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 133, 0);  
box-shadow:4px 4px 4px 4px rgb(93, 133, 0)  
}
```

Background

The CSS property to change the background color of an element to XYZ 12.9017, 19.1022, 3.0071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 133, 0) }
```

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

```
.background{ background-color: rgb(93, 133,  
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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