

Converting Colors

XYZ(9.7231, 18.8170, 3.5175)

Have a look what the booklet for
XYZ(9.7231, 18.8170, 3.5175)
contains.

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Color

**XYZ(9.8107, 18.9700,
3.5600)**

Conversions

Conversions Part 1

Format	Color
Hex	178C0E
RGB	23, 140, 14
RGB Percent	9%, 55%, 5%
CMY	0.9098, 0.4510, 0.9451
CMYK	0.84, 0.00, 0.90, 0.45
HSL	116°, 82%, 30%
HSV	116°, 90%, 55%
XYZ	9.8107, 18.9700, 3.5600
YIQ	90.6530, -29.2860, -63.9900

Conversions

Conversions Part 2

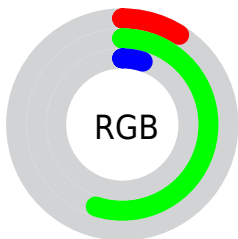
Format	Color
RYB	14, 140, 131
Decimal	1543182
CIELab	50.65, -52.75, 50.96
CIELCh	51, 73.348, 135.986
Yxy	18.9700, 0.3034, 0.5866
Android (android.graphics.Color)	4279733262 (0xFF178C0E)
YUV	90.6530, -37.7899, -59.3317
Hunter-Lab	43.5546, -36.0132, 25.6420

Details

The XYZ color **9.8107, 18.9700, 3.5600** is a dark color, and the websafe version is hex **339900**. A complement of this color would be **14.2528, 7.0340, 25.4184**, and the grayscale version is **9.9535, 10.4719, 11.4039**.

A 20% lighter version of the original color is **25.1313, 41.7866, 13.0444**, and **3.4897, 6.9794, 1.1632** is the 20% darker color. If you saturate the color by 10%, you get **9.5037, 18.8214, 3.1323**, and if you desaturate by 10%, it is **10.3158, 19.2159, 4.2645**.

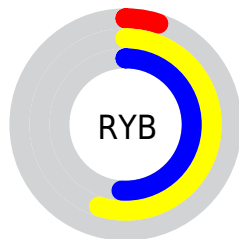
Distribution



Red (9%)

Green (55%)

Blue (5%)



Red (5%)

Yellow (55%)

Blue (51%)

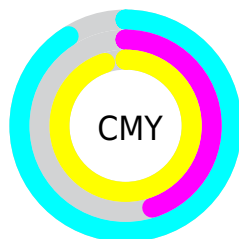


Cyan (84%)

Magenta (0%)

Yellow (90%)

Black (45%)



Cyan (91%)

Magenta (45%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 9.8107, 18.9700, 3.5600 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 9.8107, 18.9700, 3.5600 by changing the saturation by 10% instead.

■ 9.8107, 18.9700,
3.5600

■ 9.8107, 18.9700,
3.5600

183.3976,
246.2831, 143.2015

■ 5.3349, 11.6486,
1.3872

■ 25.0918, 41.6834,
12.9816

■ 2.4819, 6.5049,
0.1317

■ 36.6277, 57.8442,
21.0674

■ 0.8861, 3.1544,
0.0000

■ 51.2479, 77.7202,
31.9614

■ 0.0000, 1.2129,
0.0000

■ 69.3174, 101.6959,
46.0819


■ 0.0000, 0.0722,
0.0000


■ 91.2019, 130.1557,
63.8477


■ 0.0000, 0.0000,
0.0000


■ 117.2664,


163.4839, 85.6772


 147.8766,
202.0649, 111.9889


 9.8107, 18.9700,
3.5600


 9.8107, 18.9700,
3.5600


 9.5037, 18.8214,
3.1323


 10.3158, 19.2159,
4.2645

 9.5035, 18.8214,
3.1320

 11.0633, 19.5772,
5.3871

 12.0794, 20.0668,
6.9793

 13.3863, 20.6953,
9.0851

 15.0042, 21.4722,
11.7434

■ 16.9512, 22.4061,
14.9893

■ 19.2443, 23.5050,
18.8551

■ 21.8989, 24.7763,
23.3706

■ 24.9300, 26.2271,
28.5638

Harmonies

Analogous

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



14.4883, 18.9700, 1.1918



9.8107, 18.9700, 3.5600



7.6765, 18.9700, 12.4817

Triad

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



9.8107, 18.9700, 3.5600



14.8888, 18.9700, 87.6971



34.8311, 18.9700, 11.5652

Complementary

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



9.8107, 18.9700, 3.5600



14.2528, 7.0340, 25.4184

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.



35.0223, 18.9700, 31.7891



9.8107, 18.9700, 3.5600



22.1074, 18.9700, 86.7765

Square

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



9.8107, 18.9700, 3.5600



10.0364, 18.9700, 64.1525



29.8972, 18.9700, 62.1251



29.4288, 18.9700, 3.2701

Rectangle

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



9.8107, 18.9700, 3.5600



7.4881, 18.9700, 25.0604



29.8972, 18.9700, 62.1251



35.5475, 18.9700, 16.7990

Sweetspot

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



9.8111, 18.9708, 3.5604



30.8077, 39.9440, 27.9758



18.8117, 21.4408, 3.5628



6.8394, 9.0797, 6.0107



67.5393, 71.0566, 77.3807



10.1266, 10.6539, 11.6021

Same Dimension

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



9.8111, 18.9708, 3.5604



16.6989, 33.1530, 5.5191



10.5581, 19.2497, 8.3920



5.0028, 5.6242, 5.3743



8.4513, 16.7268, 2.7832



0.0599, 0.1131, 0.0187

Inverse Universe

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



14.2528, 7.0340, 25.4184



24.5217, 11.6773, 44.7045



12.7138, 6.5864, 9.7267



5.1992, 5.1111, 6.3184



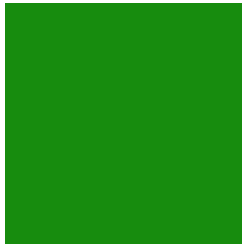
12.3941, 5.9035, 22.5319



0.0872, 0.0417, 0.1499

Previews

White Background



This preview shows how the XYZ color 9.8107, 18.9700, 3.5600 looks on a white background.

Color Contrast Check

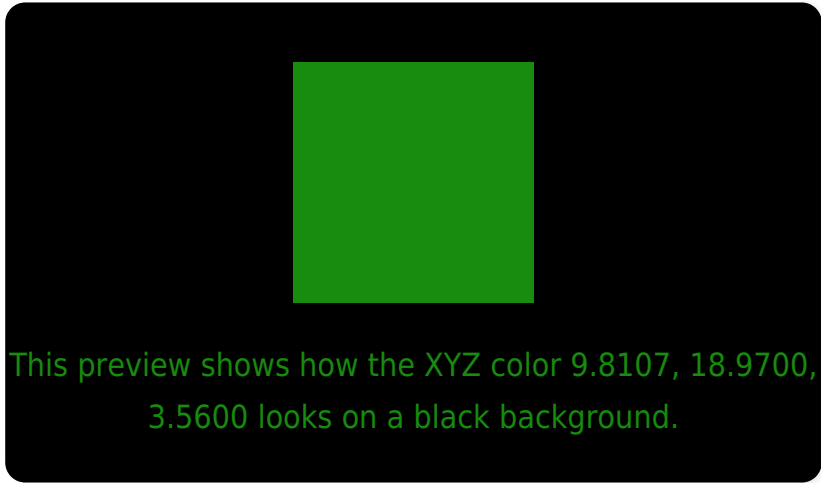
Large Text (above 18pt) WCAG AA ✓ Pass

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 9.8107, 18.9700, 3.5600

Background



This preview shows how black text looks on a background with the XYZ color 9.8107, 18.9700, 3.5600.



This preview shows how white text looks on a background with the XYZ color 9.8107, 18.9700,

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

9.8107, 18.9700, 3.5600

Protanopia

16.7081, 18.5838, 2.7064

Deuteranopia

19.0543, 18.7237, 4.0486



Tritanopia

14.7770, 18.9125, 28.0709

Trichromacy



Original Color

9.8107, 18.9700, 3.5600



Protanomaly

12.2329, 17.5694, 2.8901



Deuteranomaly

12.9783, 17.1836, 3.6100



Tritanomaly

11.8096, 18.5048, 13.7758

Monochromacy



Original Color

9.8107, 18.9700, 3.5600



Achromatopsia

9.9438, 10.4616, 11.3927



Achromatomaly

8.6126, 12.4544, 6.6526

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.8107, 18.9700, 3.5600 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, 140, 14)` looks like.

```
.text, #text, p{  
    color:rgb(23, 140, 14)  
}
```

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, 140, 14) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(23, 140, 14) }
```

Border

The CSS property to change the border of an element to XYZ 9.8107, 18.9700, 3.5600 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, 140, 14) }
```


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

```
.border{ border-color:rgb(23, 140, 14) }
```

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

Here you see how a box with a 4 pixel `rgb(23, 140, 14)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(23, 140, 14); -webkit-box-  
shadow:4px 4px 4px 4px rgb(23, 140, 14);  
box-shadow:4px 4px 4px 4px rgb(23, 140,  
14) }
```

Background

The CSS property to change the background color of an element to XYZ 9.8107, 18.9700, 3.5600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(23, 140, 14) }
```

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

```
.background{ background-color: rgb(23, 140,  
14) }
```

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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