

Converting Colors

XYZ(5.4931, 16.3728, 5.8175)

Have a look what the booklet for
XYZ(5.4931, 16.3728, 5.8175)
contains.

XYZ(9.7870, 18.6870, 5.9969)	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(9.7870, 18.6870,
5.9969)**

Conversions

Conversions Part 1

Format	Color
Hex	008B31
RGB	0, 139, 49
RGB Percent	0%, 55%, 19%
CMY	1.0000, 0.4549, 0.8078
CMYK	1.00, 0.00, 0.65, 0.45
HSL	141°, 100%, 27%
HSV	141°, 100%, 55%
XYZ	9.7870, 18.6870, 5.9969
YIQ	87.1790, -53.9540, -57.4580

Conversions

Conversions Part 2

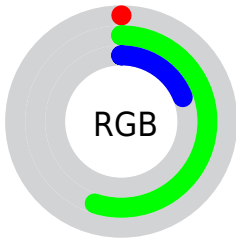
Format	Color
RYB	0, 103, 139
Decimal	35633
CIELab	50.32, -51.50, 38.25
CIELCh	50, 64.152, 143.401
Yxy	18.6870, 0.2839, 0.5421
Android (android.graphics.Color)	4278225713 (0xFF008B31)
YUV	87.1790, -18.8222, -76.4560
Hunter-Lab	43.2285, -35.2371, 22.0349

Details

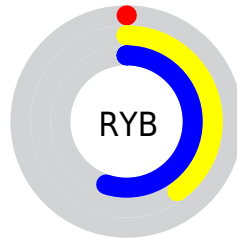
The XYZ color **9.7870, 18.6870, 5.9969** is a dark color, and the websafe version is hex **009933**. A complement of this color would be **12.4934, 6.2274, 10.2166**, and the grayscale version is **9.1458, 9.6221, 10.4784**.

A 20% lighter version of the original color is **25.1112, 41.3234, 18.4571**, and **3.4082, 6.8164, 1.1361** is the 20% darker color. If you saturate the color by 10%, you get **9.7874, 18.6877, 5.9972**, and if you desaturate by 10%, it is **10.1764, 18.8641, 7.1082**.

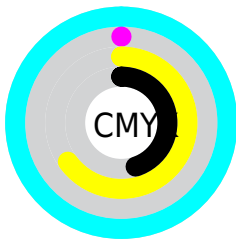
Distribution



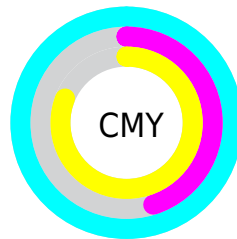
- Red (0%)
- Green (55%)
- Blue (19%)



- Red (0%)
- Yellow (40%)
- Blue (55%)



- Cyan (100%)
- Magenta (0%)
- Yellow (65%)
- Black (45%)





- Cyan (100%)
- Magenta (45%)
- Yellow (81%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 9.7870, 18.6870, 5.9969 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 9.7870, 18.6870, 5.9969 by changing the saturation by 10% instead.


 9.7870, 18.6870,
5.9969


 9.7870, 18.6870,
5.9969


183.2306,
244.7153, 168.3486


 5.3191, 11.4443,
2.7744


 25.0474, 41.2045,
18.4020


 2.4724, 6.3665,
0.9806


 36.5707, 57.2482,
28.4217


 0.8813, 3.0692,
0.0000

 51.1765, 76.9943,
41.5443

 0.0000, 1.1680,
0.0000

 69.2301, 100.8272,
58.1883

 0.0000, 0.0353,
0.0000

 91.0970, 129.1314,
78.7721

 0.0000, 0.0000,
0.0000

 117.1425,

162.2912, 103.7145

147.7319,
200.6911, 133.4338

■ 9.7870, 18.6870,
5.9969

■ 9.7870, 18.6870,
5.9969

■ 9.7874, 18.6877,
5.9972

■ 10.1764, 18.8641,
7.1082

■ 10.7197, 19.1154,
8.4353

■ 11.4803, 19.4738,
9.9918

■ 12.4816, 19.9512,
11.7881

■ 13.7436, 20.5579,
13.8342

■ 15.2843, 21.3027,
16.1391

■ 17.1199, 22.1940,
18.7118

■ 19.2656, 23.2393,
21.5605

■ 21.7351, 24.4456,
24.6932

Harmonies

Analogous

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



13.4229, 18.6870, 2.3226



9.7870, 18.6870, 5.9969



8.3340, 18.6870, 16.6593

Triad

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



9.7870, 18.6870, 5.9969



16.4223, 18.6870, 76.8501



31.1515, 18.6870, 9.5512

Complementary

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



9.7870, 18.6870, 5.9969



12.4934, 6.2274, 10.2166

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.



32.4853, 18.6870, 24.5422



9.7870, 18.6870, 5.9969



22.9465, 18.6870, 70.7386

Square

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



9.7870, 18.6870, 5.9969



11.5432, 18.6870, 62.0848



29.1952, 18.6870, 48.3575



25.8876, 18.6870, 3.3774

Rectangle

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



9.7870, 18.6870, 5.9969



8.4836, 18.6870, 29.3607



29.1952, 18.6870, 48.3575



32.1182, 18.6870, 13.3973

Sweetspot

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



9.7875, 18.6878, 5.9973



30.4262, 39.6315, 33.1923



13.4838, 20.6573, 3.2766



6.7170, 8.9892, 7.2422



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.



9.7875, 18.6878, 5.9973



17.4545, 33.4363, 10.3583



12.5121, 19.7776, 20.3451



5.0399, 5.6355, 5.7313



8.8408, 16.8689, 5.4525



0.0652, 0.1147, 0.0703

Inverse Universe

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



12.4934, 6.2274, 10.2166



22.2919, 11.1195, 17.8704



10.7819, 5.5428, 1.2039



5.1602, 5.0995, 5.9322



11.2837, 5.6236, 9.2642



0.0819, 0.0401, 0.0983

Previews

White Background



This preview shows how the XYZ color 9.7870, 18.6870, 5.9969 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 9.7870, 18.6870, 5.9969 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 9.7870, 18.6870, 5.9969

Background



This preview shows how black text looks on a background with the XYZ color 9.7870, 18.6870, 5.9969.



This preview shows how white text looks on a background with the XYZ color 9.7870, 18.6870,

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

9.7870, 18.6870, 5.9969

Protanopia

16.7057, 18.3546, 4.9478

Deuteranopia

18.6763, 18.3087, 6.4205



Tritanopia

14.4212, 18.7291, 28.0543

Trichromacy



Original Color

9.7870, 18.6870, 5.9969



Protanomaly

11.6808, 17.0425, 5.1565



Deuteranomaly

12.2415, 16.5651, 6.0422



Tritanomaly

11.8219, 18.2328, 17.0836

Monochromacy



Original Color

9.7870, 18.6870, 5.9969



Achromatopsia

9.0590, 9.5307, 10.3790



Achromatomaly

7.9322, 11.6013, 8.1245

CSS Examples

Text

The CSS property to change the color of the text to XYZ 9.7870, 18.6870, 5.9969 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(0, 139, 49)` looks like.

```
.text, #text, p{  
    color:rgb(0, 139, 49)  
}
```

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(0, 139, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 139, 49) }
```

Border

The CSS property to change the border of an element to XYZ 9.7870, 18.6870, 5.9969 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(0, 139, 49) }
```


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

```
.border{ border-color:rgb(0, 139, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 139, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 139, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 139, 49);  
box-shadow:4px 4px 4px 4px rgb(0, 139, 49)  
}
```

Background

The CSS property to change the background color of an element to XYZ 9.7870, 18.6870, 5.9969 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 139, 49) }
```

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

```
.background{ background-color: rgb(0, 139,  
49) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor