

# Converting Colors

XYZ(10.0011, 15.8768, 9.6506)

Have a look what the booklet for  
XYZ(10.0011, 15.8768, 9.6506)  
contains.

<b>XYZ(9.9886, 15.8812, 9.5601)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(9.9886, 15.8812,  
9.5601)**

# Conversions

## Conversions Part 1

Format	Color
Hex	327D4D
RGB	50, 125, 77
RGB Percent	20%, 49%, 30%
CMY	0.8039, 0.5098, 0.6980
CMYK	0.60, 0.00, 0.38, 0.51
HSL	142°, 43%, 34%
HSV	142°, 60%, 49%
XYZ	9.9886, 15.8812, 9.5601
YIQ	97.1030, -29.2920, -30.8280

# Conversions

## Conversions Part 2

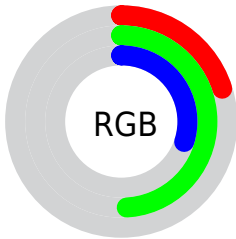
<b>Format</b>	<b>Color</b>
<b>RYB</b>	50, 105, 125
Decimal	3308877
CIELab	46.82, -34.82, 19.42
CIELCh	47, 39.863, 150.853
Yxy	15.8812, 0.2819, 0.4482
Android (android.graphics.Color)	4281498957 (0xFF327D4D)
YUV	97.1030, -9.9108, -41.3093
Hunter-Lab	39.8512, -24.9991, 13.6725

# Details

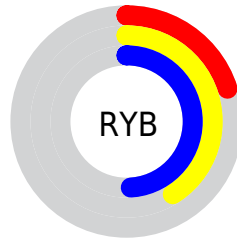
The XYZ color **9.9886, 15.8812, 9.5601** is a dark color, and the websafe version is hex **006633**. A complement of this color would be **11.8032, 7.5234, 12.3860**, and the grayscale version is **11.4168, 12.0113, 13.0803**.

A 20% lighter version of the original color is **25.3952, 36.2902, 25.4049**, and **2.7768, 5.1364, 2.2116** is the 20% darker color. If you saturate the color by 10%, you get **9.1892, 15.5002, 8.1379**, and if you desaturate by 10%, it is **10.9919, 16.3642, 11.1739**.

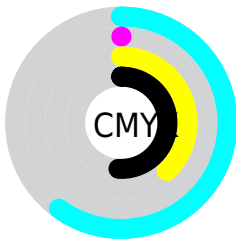
# Distribution



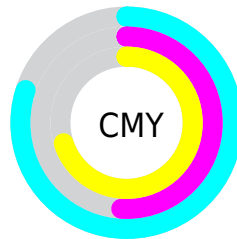
- Red (20%)
- Green (49%)
- Blue (30%)



- Red (20%)
- Yellow (41%)
- Blue (49%)



- Cyan (60%)
- Magenta (0%)
- Yellow (38%)
- Black (51%)




- Cyan (80%)
- Magenta (51%)
- Yellow (70%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 9.9886, 15.8812, 9.5601 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 9.9886, 15.8812, 9.5601 by changing the saturation by 10% instead.





 9.9886, 15.8812,  
9.5601


 9.9886, 15.8812,  
9.5601


184.6460,  
228.6397, 197.8723


 5.4536, 9.4401,  
5.0065


 25.4239, 36.3918,  
25.5595


 2.5533, 5.0294,  
2.1923

 37.0550, 51.2302,  
37.8424


 0.9222, 2.2645,  
0.6699

 51.7821, 69.6364,  
53.5388

 0.0000, 0.7548,  
0.0000

 69.9706, 91.9949,  
73.0672

 0.0000, 0.0000,  
0.0000

 91.9859, 118.6901,  
96.8462

 118.1933,

150.1064, 125.2944

148.9582,  
186.6281, 158.8303

■ 9.9886, 15.8812,  
9.5601

■ 9.9886, 15.8812,  
9.5601

■ 9.1892, 15.5002,  
8.1379

■ 10.9919, 16.3642,  
11.1739

■ 8.5772, 15.2115,  
6.8990

■ 12.2116, 16.9541,  
12.9852

■ 8.1353, 15.0067,  
5.8360

■ 13.6606, 17.6580,  
15.0008

■ 7.8076, 14.8573,  
4.9389

■ 15.3502, 18.4815,  
17.2269

■ 7.8076, 14.8573,  
4.9389

■ 17.2912, 19.4301,  
19.6695

■ 19.4937, 20.5088,  
22.3342

■ 21.9670, 21.7224,  
25.2265

■ 24.7203, 23.0754,  
28.3518

■ 27.7619, 24.5722,  
31.7150

# Harmonies

## Analogous

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



11.9272, 15.8812, 5.5344



9.9886, 15.8812, 9.5601



9.3617, 15.8812, 17.5779

# Triad

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



9.9886, 15.8812, 9.5601



15.1941, 15.8812, 44.2704



21.5717, 15.8812, 9.2321

# Complementary

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



9.9886, 15.8812, 9.5601



11.8032, 7.5234, 12.3860

# 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.



22.7900, 15.8812, 17.0091



9.9886, 15.8812, 9.5601



18.7782, 15.8812, 39.4075

# Square

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



9.9886, 15.8812, 9.5601



12.0749, 15.8812, 39.9020



21.6979, 15.8812, 28.3577



18.5800, 15.8812, 5.4024



# Rectangle

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



9.9886, 15.8812, 9.5601



9.6824, 15.8812, 25.0181



21.6979, 15.8812, 28.3577



22.2211, 15.8812, 11.3468

# Sweetspot

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



9.9890, 15.8818, 9.5605



28.0008, 33.3452, 31.5062



13.0282, 17.5369, 5.7161



6.1877, 7.4963, 6.9335



60.6688, 63.8283, 69.5090



7.9400, 8.3535, 9.0970



# Same Dimension

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



9.9890, 15.8818, 9.5605



16.0071, 27.5438, 13.7046



11.6726, 16.5553, 18.4261



4.3350, 4.8423, 4.9355



8.1453, 15.5047, 5.1377



0.0000, 0.0000, 0.0000



# Inverse Universe

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



11.8032, 7.5234, 12.3860



19.5554, 11.1160, 19.1718



10.4476, 6.9812, 5.2474



4.4345, 4.3869, 5.0925



10.3349, 5.1537, 8.3533



0.0000, 0.0000, 0.0000



# Previews

## White Background



This preview shows how the XYZ color 9.9886, 15.8812, 9.5601 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

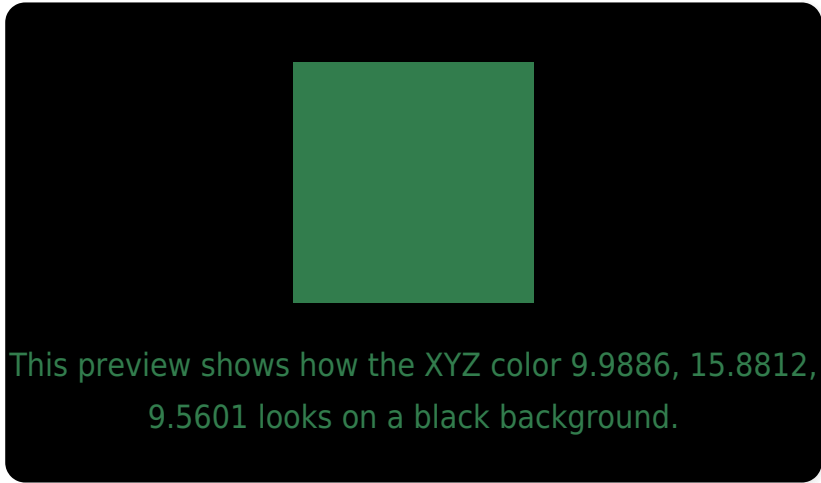
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black 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

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

**XYZ 9.9886, 15.8812, 9.5601**

## **Background**



This preview shows how black text looks on a background with the XYZ color 9.9886, 15.8812, 9.5601.



This preview shows how white text looks on a background with the XYZ color 9.9886, 15.8812,



# 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

9.9886, 15.8812, 9.5601

### Protanopia

14.4590, 15.5999, 8.2102

### Deuteranopia

15.8452, 15.6480, 9.9698



## Tritanopia

12.6731, 15.8760, 22.8185

# Trichromacy



## Original Color

9.9886, 15.8812, 9.5601

## Protanomaly

12.0526, 15.1754, 8.5972

## Deuteranomaly

12.7199, 15.1561, 9.8444

## Tritanomaly

11.4612, 15.7395, 16.9020

# Monochromacy



## Original Color

9.9886, 15.8812, 9.5601

## Achromatopsia

11.3621, 11.9538, 13.0177

## Achromatomaly

10.4114, 12.9590, 11.6255

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 9.9886, 15.8812, 9.5601 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(50, 125, 77)` looks like.

```
.text, #text, p{  
    color:rgb(50, 125, 77)  
}
```

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(50, 125, 77) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 125, 77) }
```

## Border

The CSS property to change the border of an element to XYZ 9.9886, 15.8812, 9.5601 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(50, 125, 77) }
```



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

```
.border{ border-color:rgb(50, 125, 77) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 125, 77)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 125, 77); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 125, 77);  
box-shadow:4px 4px 4px 4px rgb(50, 125,  
77) }
```

# Background

The CSS property to change the background color of an element to XYZ 9.9886, 15.8812, 9.5601 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 125, 77) }
```

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

```
.background{ background-color: rgb(50, 125,  
77) }
```

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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