

# Converting Colors

XYZ(10.5129, 14.9427, 12.3765)

Have a look what the booklet for  
XYZ(10.5129, 14.9427, 12.3765)  
contains.

<b>XYZ(10.5785, 15.0231, 12.4674)</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(10.5785, 15.0231,  
12.4674)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3F775C
RGB	63, 119, 92
RGB Percent	25%, 47%, 36%
CMY	0.7529, 0.5333, 0.6392
CMYK	0.47, 0.00, 0.23, 0.53
HSL	151°, 31%, 36%
HSV	151°, 47%, 47%
XYZ	10.5785, 15.0231, 12.4674
YIQ	99.1780, -24.7090, -20.2690

# Conversions

## Conversions Part 2

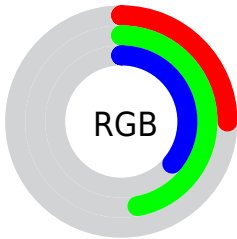
<b>Format</b>	<b>Color</b>
<b>RYB</b>	63, 100, 119
Decimal	4159324
CIELab	45.67, -25.29, 9.20
CIElCh	46, 26.914, 160.007
Yxy	15.0231, 0.2779, 0.3946
Android (android.graphics.Color)	4282349404 (0xFF3F775C)
YUV	99.1780, -3.5388, -31.7281
Hunter-Lab	38.7596, -19.1122, 8.0606

# Details

The XYZ color **10.5785, 15.0231, 12.4674** is a dark color, and the websafe version is hex **336633**. A complement of this color would be **11.2312, 8.2155, 10.6673**, and the grayscale version is **11.9180, 12.5387, 13.6547**.

A 20% lighter version of the original color is **26.5744, 35.0354, 30.9531**, and **2.7960, 4.6357, 3.3322** is the 20% darker color. If you saturate the color by 10%, you get **9.6578, 14.5768, 11.1644**, and if you desaturate by 10%, it is **11.6834, 15.5630, 13.8789**.

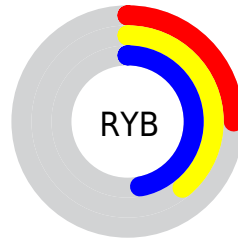
# Distribution



Red (25%)

Green (47%)

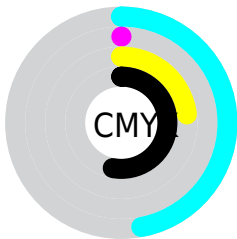
Blue (36%)



Red (25%)

Yellow (39%)

Blue (47%)

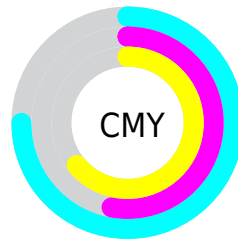


Cyan (47%)

Magenta (0%)

Yellow (23%)

Black (53%)



Cyan (75%)

Magenta (53%)

Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 10.5785, 15.0231, 12.4674 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 10.5785, 15.0231, 12.4674 by changing the saturation by 10% instead.



■ 10.5785, 15.0231,  
12.4674

■ 10.5785, 15.0231,  
12.4674

188.7212,  
223.5060, 218.5621

■ 5.8494, 8.8356,  
6.9364

■ 26.5180, 34.8937,  
31.0206

■ 2.7935, 4.6341,  
3.3445

■ 38.4590, 49.3456,  
44.8799

■ 1.0455, 2.0342,  
1.2731

■ 53.5348, 67.3211,  
62.3525

■ 0.0000, 0.6272,  
0.0396

■ 72.1105, 89.2045,  
83.8567

■ 0.0000, 0.0000,  
0.0000

■ 94.5517, 115.3803,  
109.8113

121.2236,

146.2329, 140.6347

152.4917,  
182.1467, 176.7454

■ 10.5785, 15.0231,  
12.4674

■ 10.5785, 15.0231,  
12.4674

■ 9.6578, 14.5768,  
11.1644

■ 11.6834, 15.5630,  
13.8789

■ 8.9089, 14.2164,  
9.9661

■ 12.9813, 16.1998,  
15.4004

■ 8.3198, 13.9364,  
8.8700


■ 14.4821, 16.9388,  
17.0348


■ 7.8764, 13.7294,  
7.8732

■ 16.1945, 17.7847,  
18.7845


■ 7.5469, 13.5791,  
6.9717

■ 18.1267, 18.7414,  
20.6517

 7.4563, 13.5379,  
6.7236

 20.2865, 19.8131,  
22.6388

 22.6813, 21.0035,  
24.7479

 25.3182, 22.3161,  
26.9812

 28.2037, 23.7544,  
29.3406

# Harmonies

## Analogous

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



11.6681, 15.0231, 8.5683



10.5785, 15.0231, 12.4674



10.4193, 15.0231, 18.6125

# Triad

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



10.5785, 15.0231, 12.4674



15.0461, 15.0231, 31.8937



17.8657, 15.0231, 9.6008

# Complementary

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



10.5785, 15.0231, 12.4674



11.2312, 8.2155, 10.6673

# 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.



18.9905, 15.0231, 14.2926



10.5785, 15.0231, 12.4674



17.2529, 15.0231, 27.8366

# Square

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



10.5785, 15.0231, 12.4674



12.8468, 15.0231, 31.0282



18.7552, 15.0231, 20.9830



15.8139, 15.0231, 7.2408



# Rectangle

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



10.5785, 15.0231, 12.4674



10.8426, 15.0231, 23.3896



18.7552, 15.0231, 20.9830



18.3741, 15.0231, 10.8985

# Sweetspot

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



10.5789, 15.0237, 12.4677



26.7232, 30.7218, 31.3297



11.7175, 15.7302, 7.1215



6.2087, 7.2193, 7.2952



59.0181, 62.0916, 67.6177



7.4413, 7.8288, 8.5256



# Same Dimension

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



10.5789, 15.0237, 12.4677



17.2396, 26.0758, 19.9101



11.8665, 15.3619, 19.7932



3.7124, 4.1269, 4.3195



7.9167, 14.3807, 7.1175



38.1442, 69.9049, 32.3940



# Inverse Universe

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



11.2312, 8.2155, 10.6673



18.5559, 12.3465, 16.2834



10.3350, 7.9405, 5.6908



3.7507, 3.7275, 4.2137



8.8726, 4.4828, 4.5375



42.8086, 21.6736, 19.8534



# Previews

## White Background



This preview shows how the XYZ color 10.5785, 15.0231, 12.4674 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



This preview shows how the XYZ color 10.5785, 15.0231, 12.4674 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

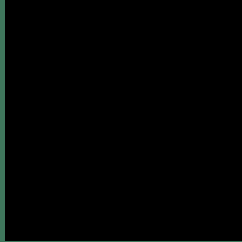
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# XYZ 10.5785, 15.0231, 12.4674

## Background



This preview shows how black text looks on a background with the XYZ color 10.5785, 15.0231, 12.4674.



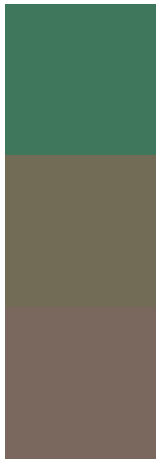
This preview shows how white text looks on a background with the XYZ color 10.5785, 15.0231,



# 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

10.5785, 15.0231, 12.4674

### Protanopia

13.8768, 14.7647, 10.9226

### Deuteranopia

15.0419, 14.8644, 12.9028



## Tritanopia

12.3674, 15.0563, 21.3231

# Trichromacy



## Original Color

10.5785, 15.0231, 12.4674

## Protanomaly

12.1652, 14.5064, 11.3914

## Deuteranomaly

12.8558, 14.5121, 12.7132

## Tritanomaly

11.5539, 14.8896, 17.5943

# Monochromacy



## Original Color

10.5785, 15.0231, 12.4674

## Achromatopsia

11.8596, 12.4772, 13.5877

## Achromatomaly

11.1031, 13.1310, 13.0157

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 10.5785, 15.0231, 12.4674 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(63, 119, 92)` looks like.

```
.text, #text, p{  
    color:rgb(63, 119, 92)  
}
```

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(63, 119, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(63, 119, 92) }
```

## Border

The CSS property to change the border of an element to XYZ 10.5785, 15.0231, 12.4674 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(63, 119, 92) }
```



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

```
.border{ border-color:rgb(63, 119, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(63, 119, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(63, 119, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(63, 119, 92);  
box-shadow:4px 4px 4px 4px rgb(63, 119,  
92) }
```

# Background

The CSS property to change the background color of an element to XYZ 10.5785, 15.0231, 12.4674 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(63, 119, 92) }
```

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

```
.background{ background-color: rgb(63, 119,  
92) }
```

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