

# Converting Colors

XYZ(24.8080, 33.3207, 15.6295)

Have a look what the booklet for  
XYZ(24.8080, 33.3207, 15.6295)  
contains.

<b>XYZ(24.7754, 33.3254, 15.7163)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(24.7754, 33.3254,  
15.7163)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7FA85E
RGB	127, 168, 94
RGB Percent	50%, 66%, 37%
CMY	0.5020, 0.3412, 0.6314
CMYK	0.24, 0.00, 0.44, 0.34
HSL	93°, 30%, 51%
HSV	93°, 44%, 66%
XYZ	24.7754, 33.3254, 15.7163
YIQ	147.3050, -0.6820, -31.7060

# Conversions

## Conversions Part 2

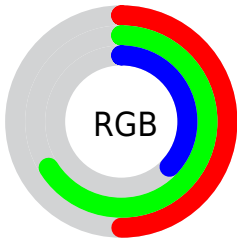
<b>Format</b>	<b>Color</b>
<b>RYB</b>	94, 168, 135
Decimal	8366174
CIELab	64.42, -27.26, 33.75
CIElCh	64, 43.381, 128.925
Yxy	33.3254, 0.3356, 0.4515
Android (android.graphics.Color)	4286556254 (0xFF7FA85E)
YUV	147.3050, -26.2794, -17.8075
Hunter-Lab	57.7282, -24.4168, 24.2682

# Details

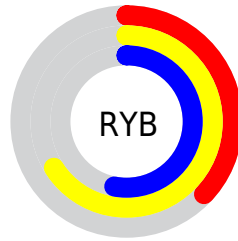
The XYZ color **24.7754, 33.3254, 15.7163** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **21.0636, 15.9844, 39.0227**, and the grayscale version is **27.9659, 29.4223, 32.0408**.

A 20% lighter version of the original color is **50.6320, 64.6744, 37.0090**, and **9.7190, 14.2245, 4.8181** is the 20% darker color. If you saturate the color by 10%, you get **22.7794, 32.3753, 12.1070**, and if you desaturate by 10%, it is **27.0653, 34.4101, 20.1973**.

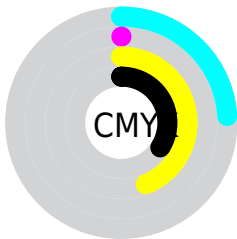
# Distribution



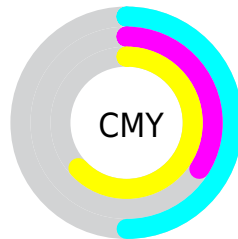
- Red (50%)
- Green (66%)
- Blue (37%)



- Red (37%)
- Yellow (66%)
- Blue (53%)



- Cyan (24%)
- Magenta (0%)
- Yellow (44%)
- Black (34%)




- Cyan (50%)
- Magenta (34%)
- Yellow (63%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.7754, 33.3254, 15.7163 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 24.7754, 33.3254, 15.7163 by changing the saturation by 10% instead.





 24.7754, 33.3254,  
15.7163


 24.7754, 33.3254,  
15.7163


269.0859,  
317.1135, 239.4501


 16.0376, 22.3758,  
9.1714

 50.7381, 64.8832,  
36.8649


 9.6418, 14.1333,  
4.7548


 68.6938, 86.2603,  
52.3057

 5.2226, 8.2135,  
2.0479


 90.4529, 111.8820,  
71.5489

 2.4145, 4.2318,  
0.5845

 116.3806,  
142.1326, 95.0131

 0.8524, 1.8041,  
0.0000

146.8425,  
177.3967, 123.1168

 0.0000, 0.4897,  
0.0000

182.2037,

 0.0000, 0.0000,

218.0587, 156.2785

0.0000

222.8297,  
264.5028, 194.9167

■ 24.7754, 33.3254,  
15.7163

■ 24.7754, 33.3254,  
15.7163

■ 22.7794, 32.3753,  
12.1070

■ 27.0653, 34.4101,  
20.1973

■ 21.0606, 31.5493,  
9.3104

■ 29.6598, 35.6307,  
25.5994

■ 19.6041, 30.8423,  
7.2636


■ 32.5718, 36.9939,  
31.9712


■ 18.3925, 30.2467,  
5.8937


■ 35.8128, 38.5046,  
39.3569

■ 17.4050, 29.7539,  
5.1129


■ 39.3938, 40.1676,  
47.7983

 16.8983, 29.4990,  
4.8033

 43.3251, 41.9872,  
57.3346

 47.6165, 43.9678,  
68.0031

 52.2774, 46.1135,  
79.8393

 57.3171, 48.4281,  
92.8772

# Harmonies

## Analogous

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



29.8655, 33.3254, 11.9687



24.7754, 33.3254, 15.7163



21.8240, 33.3254, 25.3654

# Triad

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



24.7754, 33.3254, 15.7163



27.5883, 33.3254, 78.2437



44.9345, 33.3254, 31.2545

# Complementary

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



24.7754, 33.3254, 15.7163



21.0636, 15.9844, 39.0227

# 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.



44.1170, 33.3254, 49.9614



24.7754, 33.3254, 15.7163



33.5557, 33.3254, 81.3992

# Square

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



24.7754, 33.3254, 15.7163



23.2950, 33.3254, 62.1650



39.7491, 33.3254, 69.7523



41.8559, 33.3254, 18.8185



# Rectangle

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



24.7754, 33.3254, 15.7163



21.2109, 33.3254, 35.6505



39.7491, 33.3254, 69.7523



45.1138, 33.3254, 36.9284

# Sweetspot

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



24.7762, 33.3268, 15.7170



59.5568, 67.3394, 59.0285



26.7923, 26.3786, 14.2696



12.7223, 14.5563, 12.2886



80.6108, 84.8088, 92.3568



14.7206, 15.4872, 16.8656



# Same Dimension

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



24.7762, 33.3268, 15.7170



41.3598, 58.7590, 22.0124



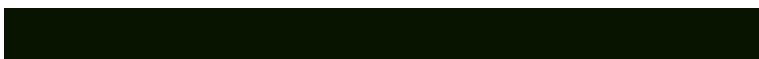
20.8102, 31.2626, 16.4191



7.7424, 8.5653, 8.0345



12.8177, 22.3050, 3.6297



0.3711, 0.5732, 0.0911



# Inverse Universe

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



21.0636, 15.9844, 39.0227



33.7193, 23.1119, 69.9089



26.8804, 19.0223, 37.5208



7.5143, 7.4977, 9.4695



8.8126, 3.9265, 28.2689



0.2719, 0.1252, 0.6905



# Previews

## White Background



This preview shows how the XYZ color 24.7754, 33.3254, 15.7163 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 24.7754, 33.3254, 15.7163 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 ✓ Pass

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

**XYZ 24.7754, 33.3254, 15.7163**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.7754, 33.3254, 15.7163.



This preview shows how white text looks on a background with the XYZ color 24.7754, 33.3254,



# 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

24.7754, 33.3254, 15.7163

### Protanopia

30.5285, 33.1730, 14.4669

### Deuteranopia

33.7386, 33.0871, 16.4126



## Tritanopia

30.4920, 33.2638, 43.8432

# Trichromacy



## Original Color

24.7754, 33.3254, 15.7163

## Protanomaly

27.9767, 32.8655, 14.7667

## Deuteranomaly

29.7720, 32.7470, 16.0609

## Tritanomaly

27.9460, 33.0052, 31.2833

# Monochromacy



## Original Color

24.7754, 33.3254, 15.7163

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

26.4328, 30.5767, 24.9308

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.7754, 33.3254, 15.7163 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(127, 168, 94)` looks like.

```
.text, #text, p{  
    color:rgb(127, 168, 94)  
}
```

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(127, 168, 94) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(127, 168, 94) }
```

## Border

The CSS property to change the border of an element to XYZ 24.7754, 33.3254, 15.7163 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(127, 168, 94) }
```



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

```
.border{ border-color:rgb(127, 168, 94) }
```

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

Here you see how a box with a 4 pixel rgb(127, 168, 94) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(127, 168, 94); -webkit-box-  
shadow:4px 4px 4px 4px rgb(127, 168, 94);  
box-shadow:4px 4px 4px 4px rgb(127, 168,  
94) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.7754, 33.3254, 15.7163 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(127, 168, 94) }
```

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

```
.background{ background-color: rgb(127,  
168, 94) }
```

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