

# Converting Colors

XYZ(24.1731, 33.7210, 16.0724)

Have a look what the booklet for  
XYZ(24.1731, 33.7210, 16.0724)  
contains.

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# Color

**XYZ(24.2362, 33.8740,  
16.0874)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77AB5F
RGB	119, 171, 95
RGB Percent	47%, 67%, 37%
CMY	0.5333, 0.3294, 0.6274
CMYK	0.30, 0.00, 0.44, 0.33
HSL	101°, 31%, 52%
HSV	101°, 44%, 67%
XYZ	24.2362, 33.8740, 16.0874
YIQ	146.7880, -6.5960, -34.6600

# Conversions

## Conversions Part 2

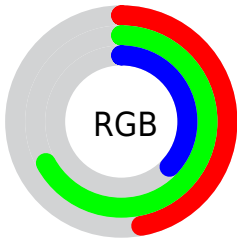
Format	Color
<a href="#">RYB</a>	<a href="#">95, 171, 147</a>
Decimal	<a href="#">7842655</a>
CIELab	<a href="#">64.86, -31.48, 33.69</a>
CIELCh	<a href="#">65, 46.107, 133.063</a>
Yxy	<a href="#">33.8740, 0.3266, 0.4565</a>
Android (android.graphics.Color)	<a href="#">4286032735</a> ( <a href="#">0xFF77AB5F</a> )
YUV	<a href="#">146.7880, -25.5315, -24.3701</a>
Hunter-Lab	<a href="#">58.2014, -27.5215, 24.3527</a>

# Details

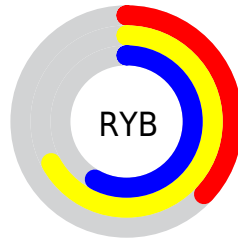
The XYZ color **24.2362, 33.8740, 16.0874** is a dark color, and the websafe version is hex **669966**. A complement of this color would be **23.4771, 17.3288, 40.6374**, and the grayscale version is **27.7504, 29.1955, 31.7940**.

A 20% lighter version of the original color is **49.9691, 65.9290, 37.6957**, and **9.2863, 14.3474, 4.8647** is the 20% darker color. If you saturate the color by 10%, you get **22.0347, 32.8203, 12.3628**, and if you desaturate by 10%, it is **26.8078, 35.1008, 20.7214**.

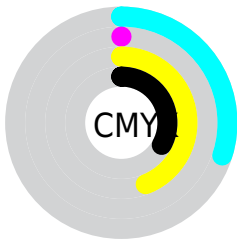
# Distribution



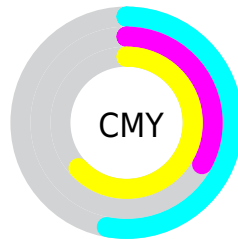
- Red (47%)
- Green (67%)
- Blue (37%)



- Red (37%)
- Yellow (67%)
- Blue (58%)



- Cyan (30%)
- Magenta (0%)
- Yellow (44%)
- Black (33%)



- Cyan (53%)
- Magenta (33%)
- Yellow (63%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.2362, 33.8740, 16.0874 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 24.2362, 33.8740, 16.0874 by changing the saturation by 10% instead.



■ 24.2362, 33.8740,  
16.0874

■ 24.2362, 33.8740,  
16.0874

266.4308,  
319.5699, 241.7202

■ 15.6346, 22.7968,  
9.4310

■ 49.8672, 65.7377,  
37.5188

■ 9.3552, 14.4436,  
4.9227

■ 67.6274, 87.2930,  
53.1308

■ 5.0325, 8.4298,  
2.1440

■ 89.1711, 113.1098,  
72.5652

■ 2.3013, 4.3712,  
0.6418

■ 114.8638,  
143.5724, 96.2403

■ 0.7953, 1.8833,  
0.0000

145.0708,  
179.0654, 124.5749

■ 0.0000, 0.5383,  
0.0000

180.1573,

■ 0.0000, 0.0000,

219.9730, 157.9873

0.0000

220.4889,  
266.6797, 196.8963

■ 24.2362, 33.8740,  
16.0874

■ 24.2362, 33.8740,  
16.0874

■ 22.0347, 32.8203,  
12.3628

■ 26.8078, 35.1008,  
20.7214

■ 20.1823, 31.9271,  
9.4857

■ 29.7640, 36.5040,  
26.3169

■ 18.6596, 31.1870,  
7.3897


■ 33.1215, 38.0921,  
32.9248


■ 17.4441, 30.5898,  
5.9979


■ 36.8954, 39.8718,  
40.5916


■ 16.5093, 30.1243,  
5.2172


■ 41.0998, 41.8495,  
49.3612

 16.0847, 29.9114,  
4.9257

 45.7482, 44.0313,  
59.2748

 50.8535, 46.4228,  
70.3714

 56.4280, 49.0297,  
82.6884

 62.4836, 51.8574,  
96.2614

# Harmonies

## Analogous

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



29.3938, 33.8740, 11.4873



24.2362, 33.8740, 16.0874



21.4547, 33.8740, 27.2167

# Triad

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



24.2362, 33.8740, 16.0874



28.6155, 33.8740, 84.1316



46.3156, 33.8740, 29.2151

# Complementary

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



24.2362, 33.8740, 16.0874



23.4771, 17.3288, 40.6374

# 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.



46.0313, 33.8740, 48.6035



24.2362, 33.8740, 16.0874



35.1713, 33.8740, 85.2460

# Square

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



24.2362, 33.8740, 16.0874



23.7342, 33.8740, 67.9356



41.7323, 33.8740, 70.5982



42.4626, 33.8740, 17.1146



# Rectangle

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



24.2362, 33.8740, 16.0874



21.0484, 33.8740, 38.8730



41.7323, 33.8740, 70.5982



46.7149, 33.8740, 34.9622

# Sweetspot

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



24.2370, 33.8755, 16.0881



60.0967, 68.5863, 60.5287



29.2849, 30.3323, 15.1382



13.0941, 15.1497, 12.8822



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123



# Same Dimension

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



24.2370, 33.8755, 16.0881



39.6459, 58.8654, 22.4412



22.0400, 32.6630, 19.5928



8.1336, 9.0575, 8.5329



12.1740, 22.5730, 3.7154



0.3961, 0.6576, 0.1060



# Inverse Universe

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



23.4771, 17.3288, 40.6374



38.0830, 25.5007, 71.9168



26.9796, 19.2798, 34.2291



8.0874, 8.0194, 10.0743



11.1285, 5.0968, 29.4418



0.3628, 0.1692, 0.8215



# Previews

## White Background



This preview shows how the XYZ color 24.2362, 33.8740, 16.0874 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 24.2362, 33.8740, 16.0874 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

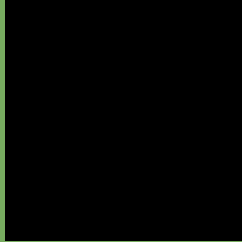
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 24.2362, 33.8740, 16.0874**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.2362, 33.8740, 16.0874.



This preview shows how white text looks on a background with the XYZ color 24.2362, 33.8740,



# 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

24.2362, 33.8740, 16.0874

### Protanopia

30.9157, 33.6228, 14.5333

### Deuteranopia

34.1929, 33.5516, 16.7305



## Tritanopia

30.1739, 33.8413, 45.4991

# Trichromacy



## Original Color

24.2362, 33.8740, 16.0874

## Protanomaly

27.9890, 33.3857, 15.0941

## Deuteranomaly

29.7413, 33.2281, 16.4014

## Tritanomaly

27.3958, 33.4976, 32.2159

# Monochromacy



## Original Color

24.2362, 33.8740, 16.0874

## Achromatopsia

27.7328, 29.1771, 31.7738

## Achromatomaly

26.1013, 30.6538, 24.9632

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.2362, 33.8740, 16.0874 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(119, 171, 95)` looks like.

```
.text, #text, p{  
    color:rgb(119, 171, 95)  
}
```

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(119, 171, 95) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 171, 95) }
```

## Border

The CSS property to change the border of an element to XYZ 24.2362, 33.8740, 16.0874 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(119, 171, 95) }
```



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

```
.border{ border-color:rgb(119, 171, 95) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 171, 95)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 171, 95); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 171, 95);  
box-shadow:4px 4px 4px 4px rgb(119, 171,  
95) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.2362, 33.8740, 16.0874 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 171, 95) }
```

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

```
.background{ background-color: rgb(119,  
171, 95) }
```

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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