

# Converting Colors

XYZ(24.2279, 28.0713, 33.5032)

Have a look what the booklet for  
XYZ(24.2279, 28.0713, 33.5032)  
contains.

<b>XYZ(24.2380, 28.0401, 33.4130)</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(24.2380, 28.0401,  
33.4130)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	789697
RGB	120, 150, 151
RGB Percent	47%, 59%, 59%
CMY	0.5294, 0.4118, 0.4078
CMYK	0.21, 0.01, 0.00, 0.41
HSL	182°, 13%, 53%
HSV	182°, 21%, 59%
XYZ	24.2380, 28.0401, 33.4130
YIQ	141.1440, -18.2010, -6.0490

# Conversions

## Conversions Part 2

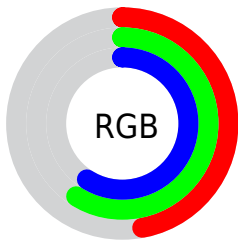
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 135, 151
Decimal	7902871
CIE Lab	59.92, -10.19, -4.00
CIE LCh	60, 10.947, 201.408
Yxy	28.0401, 0.2829, 0.3272
Android (android.graphics.Color)	4286092951 (0xFF789697)
YUV	141.1440, 4.8590, -18.5433
Hunter-Lab	52.9529, -10.9632, -0.3446

# Details

The XYZ color **24.2380, 28.0401, 33.4130** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **22.9904, 21.6103, 20.7294**, and the grayscale version is **25.3612, 26.6819, 29.0566**.

A 20% lighter version of the original color is **49.8459, 56.4777, 66.0317**, and **9.3606, 11.1834, 13.7218** is the 20% darker color. If you saturate the color by 10%, you get **22.2296, 26.8905, 33.2974**, and if you desaturate by 10%, it is **26.5787, 29.3629, 33.5454**.

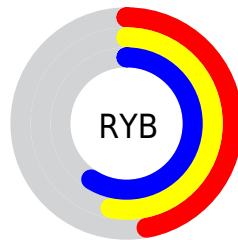
# Distribution



Red (47%)

Green (59%)

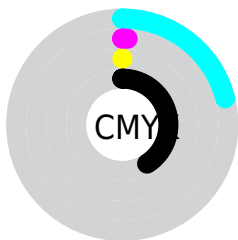
Blue (59%)



Red (47%)

Yellow (53%)

Blue (59%)

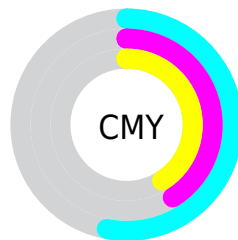


Cyan (21%)

Magenta (1%)

Yellow (0%)

Black (41%)



Cyan (53%)

Magenta (41%)

Yellow (41%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.2380, 28.0401, 33.4130 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 24.2380, 28.0401, 33.4130 by changing the saturation by 10% instead.



■ 24.2380, 28.0401,  
33.4130

■ 24.2380, 28.0401,  
33.4130

266.4397,  
292.6585, 332.1955

■ 15.6360, 18.3559,  
22.1693

■ 49.8702, 56.5485,  
66.1432

■ 9.3561, 11.2058,  
13.7819

■ 67.6310, 76.1414,  
88.4668

■ 5.0332, 6.2054,  
7.8321

■ 89.1754, 99.8060,  
115.3208

■ 2.3017, 2.9704,  
3.9015

114.8689,  
127.9268, 147.1237

■ 0.7955, 1.1163,  
1.5714

145.0767,  
160.8880, 184.2941

■ 0.0000, 0.0000,  
0.2703

180.1642,

■ 0.0000, 0.0000,

199.0741, 227.2505

0.0000

220.4968,  
242.8694, 276.4115

■ 24.2380, 28.0401,  
33.4130

■ 24.2380, 28.0401,  
33.4130

■ 22.2296, 26.8905,  
33.2974

■ 26.5787, 29.3629,  
33.5454

■ 20.5355, 25.9027,  
33.1960

■ 29.2636, 30.8629,  
33.6934

■ 19.1398, 25.0692,  
33.1087

■ 32.3071, 32.5483,  
33.8583

■ 18.0245, 24.3807,  
33.0346

■ 35.7220, 34.4256,  
34.0407

■ 17.1692, 23.8268,  
32.9728

■ 39.5206, 36.5012,  
34.2411

■ 16.5512, 23.3956,  
32.9221

■ 43.7144, 38.7811,  
34.4601

■ 16.1433, 23.0732,  
32.8814

■ 48.3148, 41.2709,  
34.6983

■ 15.8863, 22.8350,  
32.8490

■ 53.3323, 43.9763,  
34.9560

■ 58.4443, 46.7309,  
35.2183

# Harmonies

## Analogous

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



24.0932, 28.0401, 29.4008



24.2380, 28.0401, 33.4130



25.0175, 28.0401, 36.9177

# Triad

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



24.2380, 28.0401, 33.4130



28.7969, 28.0401, 35.5623



27.0528, 28.0401, 23.5662

# Complementary

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



24.2380, 28.0401, 33.4130



22.9904, 21.6103, 20.7294

# 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.



28.3546, 28.0401, 24.9268



24.2380, 28.0401, 33.4130



29.3842, 28.0401, 31.6896

# Square

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



24.2380, 28.0401, 33.4130



27.6395, 28.0401, 38.2318



29.2196, 28.0401, 27.8195



25.6869, 28.0401, 23.9405



# Rectangle

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



24.2380, 28.0401, 33.4130



25.8076, 28.0401, 38.3816



29.2196, 28.0401, 27.8195



27.5131, 28.0401, 23.8312

# Sweetspot

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



24.2388, 28.0412, 33.4136



49.6408, 53.7289, 60.1880



22.2345, 27.4955, 22.0700



11.2196, 12.1766, 13.6765



72.9764, 76.7769, 83.6100



11.9732, 12.5967, 13.7178



# Same Dimension

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



24.2388, 28.0412, 33.4136



41.5469, 49.1558, 59.7319



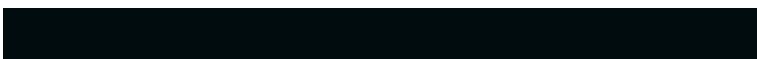
21.9939, 23.5513, 32.6653



6.3675, 6.9924, 7.9430



13.5188, 19.4343, 27.9464



0.2067, 0.2997, 0.4193



# Inverse Universe

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



24.9847, 22.2149, 31.8265



43.1550, 36.6616, 56.2950



24.9597, 25.5490, 21.3858



6.4526, 6.3202, 7.7636



15.2824, 7.3672, 23.8101



0.2308, 0.1111, 0.3681



# Previews

## White Background



This preview shows how the XYZ color 24.2380, 28.0401, 33.4130 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 24.2380, 28.0401, 33.4130 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

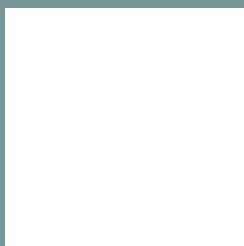
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 24.2380, 28.0401, 33.4130**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.2380, 28.0401, 33.4130.



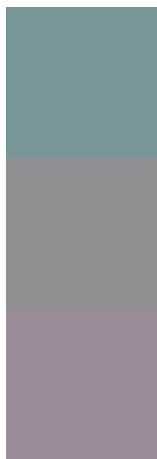
This preview shows how white text looks on a background with the XYZ color 24.2380, 28.0401,



# 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

24.2380, 28.0401, 33.4130

### Protanopia

26.9430, 27.8625, 31.5617

### Deuteranopia

28.4543, 27.9261, 34.0276



## Tritanopia

25.1186, 28.1705, 37.3713

# Trichromacy



## Original Color

24.2380, 28.0401, 33.4130

## Protanomaly

25.9407, 28.0143, 32.0570

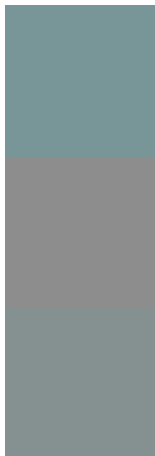
## Deuteranomaly

26.7961, 27.9643, 33.6911

## Tritanomaly

24.7184, 27.9942, 35.9989

# Monochromacy



## Original Color

24.2380, 28.0401, 33.4130

## Achromatopsia

25.3171, 26.6356, 29.0061

## Achromatomaly

24.7570, 26.9774, 30.6904

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.2380, 28.0401, 33.4130 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(120, 150, 151)` looks like.

```
.text, #text, p{  
    color:rgb(120, 150, 151)  
}
```

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(120, 150, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 150, 151) }
```

## Border

The CSS property to change the border of an element to XYZ 24.2380, 28.0401, 33.4130 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(120, 150, 151) }
```



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

```
.border{ border-color:rgb(120, 150, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 150, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 150, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 150, 151);  
box-shadow:4px 4px 4px 4px rgb(120, 150,  
151) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.2380, 28.0401, 33.4130 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 150, 151) }
```

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

```
.background{ background-color: rgb(120,  
150, 151) }
```

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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