

# Converting Colors

XYZ(23.1045, 30.0047, 37.9210)

Have a look what the booklet for  
XYZ(23.1045, 30.0047, 37.9210)  
contains.

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# Color

**XYZ(23.1145, 30.1025,  
37.8498)**

# Conversions

## Conversions Part 1

Format	Color
Hex	58A1A0
RGB	88, 161, 160
RGB Percent	35%, 63%, 63%
CMY	0.6549, 0.3686, 0.3725
CMYK	0.45, 0.00, 0.01, 0.37
HSL	179°, 29%, 49%
HSV	179°, 45%, 63%
XYZ	23.1145, 30.1025, 37.8498
YIQ	139.0590, -43.1870, -15.7870

# Conversions

## Conversions Part 2

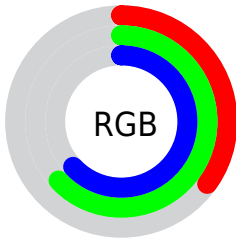
<b>Format</b>	<b>Color</b>
<b>RYB</b>	88, 125, 161
Decimal	5808544
CIELab	61.74, -23.00, -6.59
CIELCh	62, 23.928, 195.978
Yxy	30.1025, 0.2538, 0.3306
Android (android.graphics.Color)	4283998624 (0xFF58A1A0)
YUV	139.0590, 10.3239, -44.7787
Hunter-Lab	54.8657, -20.8144, -2.4959

# Details

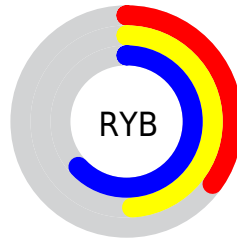
The XYZ color **23.1145, 30.1025, 37.8498** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **19.9918, 15.2786, 11.3476**, and the grayscale version is **24.5374, 25.8153, 28.1129**.

A 20% lighter version of the original color is **48.1493, 59.8577, 73.3059**, and **8.7644, 12.3174, 16.3836** is the 20% darker color. If you saturate the color by 10%, you get **21.7365, 29.3951, 37.6852**, and if you desaturate by 10%, it is **24.8309, 30.9858, 38.0318**.

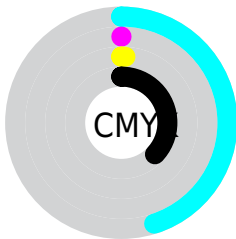
# Distribution



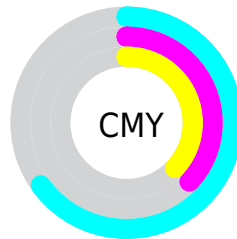
- Red (35%)
- Green (63%)
- Blue (63%)



- Red (35%)
- Yellow (49%)
- Blue (63%)



- Cyan (45%)
- Magenta (0%)
- Yellow (1%)
- Black (37%)



- Cyan (65%)
- Magenta (37%)
- Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.1145, 30.1025, 37.8498 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 23.1145, 30.1025, 37.8498 by changing the saturation by 10% instead.



■ 23.1145, 30.1025,  
37.8498

■ 23.1145, 30.1025,  
37.8498

260.8369,  
302.3819, 352.2541

■ 14.7992, 19.9164,  
25.5652

■ 48.0465, 59.8242,  
73.0787

■ 8.7640, 12.3343,  
16.2758

■ 65.3940, 80.1287,  
96.8601

■ 4.6434, 6.9718,  
9.5631

■ 86.4830, 104.5747,  
125.3109

■ 2.0722, 3.4445,  
5.0084

■ 111.6787,  
133.5466, 158.8496

■ 0.6740, 1.3679,  
2.1934

141.3466,  
167.4289, 197.8947

■ 0.0000, 0.1929,  
0.6705

175.8521,

■ 0.0000, 0.0000,

206.6060, 242.8648

0.0000

215.5604,  
251.4622, 294.1784

■ 23.1145, 30.1025,  
37.8498

■ 23.1145, 30.1025,  
37.8498

■ 21.7365, 29.3951,  
37.6852

■ 24.8309, 30.9858,  
38.0318

■ 20.6719, 28.8485,  
37.5347

■ 26.9033, 32.0520,  
38.2299

■ 19.8963, 28.4509,  
37.3980

■ 29.3515, 33.3118,  
38.4459

■ 19.3809, 28.1874,  
37.2736

■ 32.1929, 34.7743,  
38.6804

■ 19.0883, 28.0387,  
37.1598

■ 35.4437, 36.4480,  
38.9342

■ 18.9855, 27.9868,  
37.1084

■ 39.1195, 38.3406,  
39.2081

■ 43.2349, 40.4599,  
39.5028

■ 47.8037, 42.8130,  
39.8188

■ 52.8394, 45.4067,  
40.1569

# Harmonies

## Analogous

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



23.0675, 30.1025, 28.7049



23.1145, 30.1025, 37.8498



24.5601, 30.1025, 47.0882

# Triad

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



23.1145, 30.1025, 37.8498



33.2490, 30.1025, 46.5505



30.1223, 30.1025, 18.5256

# Complementary

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



23.1145, 30.1025, 37.8498



19.9918, 15.2786, 11.3476

# 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.



33.0856, 30.1025, 21.7053



23.1145, 30.1025, 37.8498



34.9794, 30.1025, 37.2160

# Square

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



23.1145, 30.1025, 37.8498



30.3321, 30.1025, 52.7132



34.9175, 30.1025, 28.1781



26.9573, 30.1025, 18.6319



# Rectangle

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



23.1145, 30.1025, 37.8498



26.1883, 30.1025, 51.5657



34.9175, 30.1025, 28.1781



31.1798, 30.1025, 19.2157

# Sweetspot

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



23.1154, 30.1037, 37.8505



53.0782, 59.9210, 68.8943



18.6478, 28.3301, 13.7185



11.4298, 13.0329, 15.0916



76.7382, 80.7346, 87.9200



13.3056, 13.9985, 15.2444



# Same Dimension

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



23.1154, 30.1037, 37.8505



38.9984, 52.6789, 67.4976



17.8831, 19.4982, 36.5405



7.2719, 8.0096, 9.0436



15.1639, 22.3519, 29.6432



0.3199, 0.4702, 0.6294



# Inverse Universe

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



19.9918, 15.2786, 11.3476



32.7148, 22.8465, 14.1754



23.5786, 22.5190, 12.3370



7.0775, 7.0875, 7.3947



11.7498, 6.0560, 0.6069

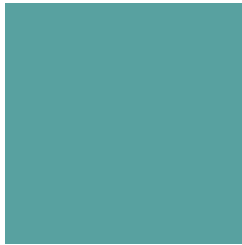


0.2480, 0.1277, 0.0186



# Previews

## White Background



This preview shows how the XYZ color 23.1145, 30.1025, 37.8498 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 23.1145, 30.1025, 37.8498 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 23.1145, 30.1025, 37.8498**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.1145, 30.1025, 37.8498.



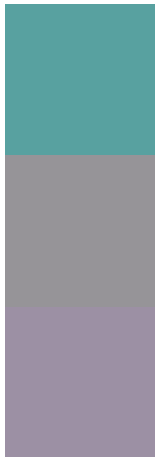
This preview shows how white text looks on a background with the XYZ color 23.1145, 30.1025,



# 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

23.1145, 30.1025, 37.8498

### Protanopia

28.8351, 29.9308, 33.9632

### Deuteranopia

30.3844, 29.6948, 39.2522



## Tritanopia

24.2582, 30.0501, 43.5514

# Trichromacy



## Original Color

23.1145, 30.1025, 37.8498

## Protanomaly

26.0600, 29.6610, 35.3620

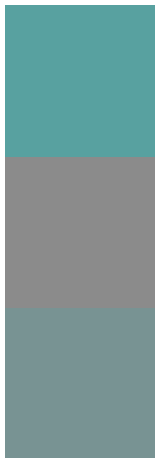
## Deuteranomaly

26.8773, 29.2823, 38.8858

## Tritanomaly

23.9531, 30.1929, 41.6111

# Monochromacy



## Original Color

23.1145, 30.1025, 37.8498

## Achromatopsia

24.5403, 25.8183, 28.1161

## Achromatomaly

23.4459, 26.9671, 31.5732

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.1145, 30.1025, 37.8498 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(88, 161, 160)` looks like.

```
.text, #text, p{  
    color:rgb(88, 161, 160)  
}
```

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(88, 161, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(88, 161, 160) }
```

## Border

The CSS property to change the border of an element to XYZ 23.1145, 30.1025, 37.8498 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(88, 161, 160) }
```



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

```
.border{ border-color:rgb(88, 161, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(88, 161, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(88, 161, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(88, 161, 160);  
box-shadow:4px 4px 4px 4px rgb(88, 161,  
160) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.1145, 30.1025, 37.8498 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(88, 161, 160) }
```

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

```
.background{ background-color: rgb(88, 161,  
160) }
```

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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