

# Converting Colors

XYZ(37.5181, 44.6706, 62.8928)

Have a look what the booklet for  
XYZ(37.5181, 44.6706, 62.8928)  
contains.

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# Color

**XYZ(37.6648, 44.8674,  
63.1750)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	80BCCB
RGB	128, 188, 203
RGB Percent	50%, 74%, 80%
CMY	0.4980, 0.2627, 0.2039
CMYK	0.37, 0.07, 0.00, 0.20
HSL	192°, 42%, 65%
HSV	192°, 37%, 80%
XYZ	37.6648, 44.8674, 63.1750
YIQ	171.7700, -40.5750, -8.0550

# Conversions

## Conversions Part 2

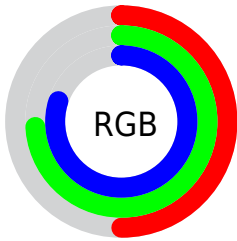
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	128, 161, 203
Decimal	8436939
CIE <sub>Lab</sub>	72.80, -15.52, -13.70
CIE <sub>LCh</sub>	73, 20.703, 221.432
Yxy	44.8674, 0.2585, 0.3079
Android (android.graphics.Color)	4286627019 (0xFF80BCCB)
YUV	171.7700, 15.3964, -38.3863
Hunter-Lab	66.9831, -16.8494, -9.0310

# Details

The XYZ color **37.6648, 44.8674, 63.1750** is a light color, and the websafe version is hex **99CCCC**. A complement of this color would be **38.3481, 33.9006, 24.9456**, and the grayscale version is **39.0369, 41.0699, 44.7251**.

A 20% lighter version of the original color is **69.9291, 81.9886, 106.7475**, and **16.9128, 20.9537, 31.5868** is the 20% darker color. If you saturate the color by 10%, you get **34.0568, 41.7390, 62.7621**, and if you desaturate by 10%, it is **41.9108, 48.3630, 63.6267**.

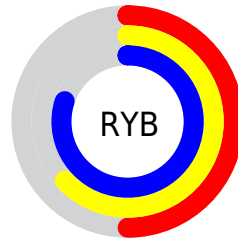
# Distribution



Red (50%)

Green (74%)

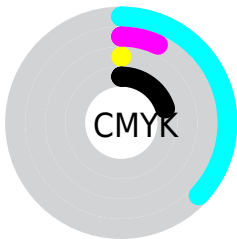
Blue (80%)



Red (50%)

Yellow (63%)

Blue (80%)

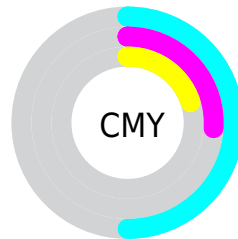


Cyan (37%)

Magenta (7%)

Yellow (0%)

Black (20%)



Cyan (50%)

Magenta (26%)

Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.6648, 44.8674, 63.1750 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 37.6648, 44.8674, 63.1750 by changing the saturation by 10% instead.



■ 37.6648, 44.8674,  
63.1750

■ 37.6648, 44.8674,  
63.1750

327.4856,  
366.2363, 454.3297

■ 25.8987, 31.3530,  
45.5409

■ 70.9013, 82.5214,  
111.0100

■ 16.8801, 20.8678,  
31.5376

■ 93.1024, 107.4298,  
142.0479

■ 10.2438, 13.0274,  
20.7467

■ 119.5124,  
136.9049, 178.3908

■ 5.6244, 7.4474,  
12.7495

150.4969,  
171.3313, 220.4573

■ 2.6566, 3.7435,  
7.1276

186.4211,  
211.0932, 268.6659

■ 0.9749, 1.5311,  
3.4624

227.6504,

■ 0.0000, 0.3105,

256.5750, 323.4352

1.3353

274.5501,  
308.1613, 385.1836

■ 0.0000, 0.0000,  
0.0905

■ 0.0000, 0.0000,  
0.0000

■ 37.6648, 44.8674,  
63.1750

■ 37.6648, 44.8674,  
63.1750

■ 34.0568, 41.7390,  
62.7621

■ 41.9108, 48.3630,  
63.6267

■ 31.0457, 38.9533,  
62.3831

■ 46.8245, 52.2382,  
64.1157

■ 28.5924, 36.4907,  
62.0371

■ 52.4385, 56.5113,  
64.6446

■ 26.6507, 34.3272,  
61.7218

■ 58.7822, 61.1976,  
65.2148

■ 25.1669, 32.4347,  
61.4347

■ 65.8832, 66.3117,  
65.8277

■ 24.0694, 30.7762,  
61.1725

■ 73.7676, 71.8672,  
66.4844

■ 23.7715, 30.2956,  
61.0954

■ 76.6833, 74.8992,  
66.9160

■ 77.7390, 77.0105,  
67.2679

■ 78.8205, 79.1736,  
67.6284

# Harmonies

## Analogous

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



36.2161, 44.8674, 52.8872



37.6648, 44.8674, 63.1750



40.4795, 44.8674, 70.1493

# Triad

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



37.6648, 44.8674, 63.1750



49.5465, 44.8674, 55.4388



41.2882, 44.8674, 31.8897

# Complementary

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



37.6648, 44.8674, 63.1750



38.3481, 33.9006, 24.9456

# 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.



44.8866, 44.8674, 32.3724



37.6648, 44.8674, 63.1750



49.7933, 44.8674, 45.0293

# Square

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



37.6648, 44.8674, 63.1750



47.3899, 44.8674, 65.2677



48.0462, 44.8674, 36.8777



38.2281, 44.8674, 35.4507



# Rectangle

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



37.6648, 44.8674, 63.1750



42.8183, 44.8674, 71.4624



48.0462, 44.8674, 36.8777



42.4724, 44.8674, 31.5993

# Sweetspot

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



37.6662, 44.8692, 63.1760



83.7093, 91.5359, 107.8640



35.1228, 49.2475, 33.1486



17.6405, 19.3818, 23.0613



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

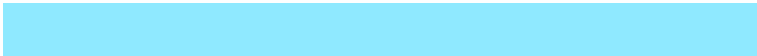


# Same Dimension

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



37.6662, 44.8692, 63.1760



58.3583, 71.0722, 105.2502



30.8704, 31.2776, 60.9108



11.3453, 12.3310, 14.3525



15.1934, 19.4107, 38.9021



0.8335, 1.1008, 2.0235



# Inverse Universe

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



41.4260, 31.7669, 51.5270



65.6780, 46.7031, 82.3165



44.6961, 46.5966, 27.0616



11.5877, 11.3638, 13.6292



19.8798, 9.7625, 22.8836

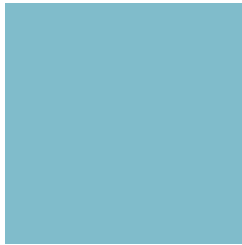


1.0507, 0.5137, 1.3127



# Previews

## White Background



This preview shows how the XYZ color 37.6648, 44.8674, 63.1750 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 37.6648, 44.8674, 63.1750 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

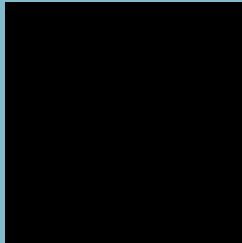
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.6648, 44.8674, 63.1750**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.6648, 44.8674, 63.1750.



This preview shows how white text looks on a background with the XYZ color 37.6648, 44.8674,



# 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

37.6648, 44.8674, 63.1750

### Protanopia

43.5904, 44.6599, 58.5473

### Deuteranopia

45.5680, 44.6734, 64.6137



## Tritanopia

37.6648, 44.8674, 63.1750

# Trichromacy



## Original Color

37.6648, 44.8674, 63.1750

## Protanomaly

41.1308, 44.5422, 60.4625

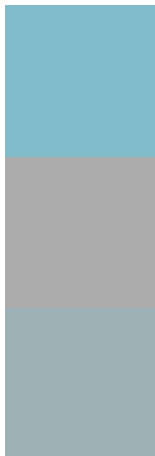
## Deuteranomaly

42.0398, 44.3294, 64.0983

## Tritanomaly

37.6648, 44.8674, 63.1750

# Monochromacy



## Original Color

37.6648, 44.8674, 63.1750

## Achromatopsia

39.2122, 41.2543, 44.9259

## Achromatomaly

38.1779, 42.3276, 50.9576

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.6648, 44.8674, 63.1750 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(128, 188, 203)` looks like.

```
.text, #text, p{  
    color:rgb(128, 188, 203)  
}
```

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(128, 188, 203) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 188, 203) }
```

## Border

The CSS property to change the border of an element to XYZ 37.6648, 44.8674, 63.1750 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(128, 188, 203) }
```



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

```
.border{ border-color:rgb(128, 188, 203) }
```

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

Here you see how a box with a 4 pixel `rgb(128, 188, 203)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 188, 203); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 188, 203);  
box-shadow:4px 4px 4px 4px rgb(128, 188,  
203) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.6648, 44.8674, 63.1750 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 188, 203) }
```

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

```
.background{ background-color: rgb(128,  
188, 203) }
```

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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