

# Converting Colors

XYZ(47.7550, 48.0088, 84.3007)

Have a look what the booklet for  
XYZ(47.7550, 48.0088, 84.3007)  
contains.

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# Color

**XYZ(47.9332, 48.1323,  
84.6060)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A8B7EA
RGB	168, 183, 234
RGB Percent	66%, 72%, 92%
CMY	0.3412, 0.2823, 0.0823
CMYK	0.28, 0.22, 0.00, 0.08
HSL	226°, 61%, 79%
HSV	226°, 28%, 92%
XYZ	47.9332, 48.1323, 84.6060
YIQ	184.3290, -25.3110, 12.6810

# Conversions

## Conversions Part 2

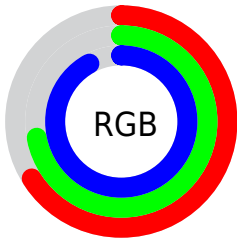
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	168, 180, 234
Decimal	11057130
CIE Lab	74.91, 6.14, -27.13
CIE LCh	75, 27.818, 282.754
Yxy	48.1323, 0.2653, 0.2664
Android (android.graphics.Color)	4289247210 (0xFFA8B7EA)
YUV	184.3290, 24.4878, -14.3205
Hunter-Lab	69.3774, 1.9159, -23.7401

# Details

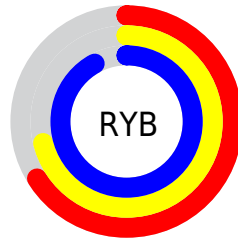
The XYZ color **47.9332, 48.1323, 84.6060** is a light color, and the websafe version is hex **CCCCFF**. A complement of this color would be **66.3318, 70.9832, 47.2523**, and the grayscale version is **45.6219, 47.9978, 52.2696**.

A 20% lighter version of the original color is **79.6570, 84.8003, 106.7775**, and **22.9579, 22.7570, 45.3020** is the 20% darker color. If you saturate the color by 10%, you get **39.8997, 38.8065, 83.2302**, and if you desaturate by 10%, it is **57.3453, 58.8823, 86.1857**.

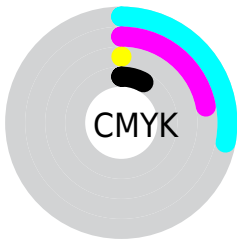
# Distribution



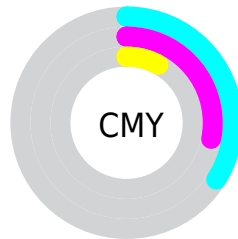
- Red (66%)
- Green (72%)
- Blue (92%)



- Red (66%)
- Yellow (71%)
- Blue (92%)



- Cyan (28%)
- Magenta (22%)
- Yellow (0%)
- Black (8%)



- Cyan (34%)
- Magenta (28%)
- Yellow (8%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 47.9332, 48.1323, 84.6060 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 47.9332, 48.1323, 84.6060 by changing the saturation by 10% instead.



■ 47.9332, 48.1323,  
84.6060

■ 47.9332, 48.1323,  
84.6060

369.1143,  
379.3163, 530.4340

■ 33.9850, 33.9317,  
62.9676

■ 86.3152, 87.4014,  
141.6918

■ 23.0449, 22.8411,  
45.3742

■ 111.4798,  
113.2386, 177.9764

■ 14.7476, 14.4762,  
31.4072

141.1139,  
143.7234, 219.9800

■ 8.7276, 8.4526,  
20.6480

175.5828,  
179.2403, 268.1213

■ 4.6196, 4.3859,  
12.6782

215.2520,  
220.1737, 322.8188

■ 2.0583, 1.8917,  
7.0792

260.4867,

■ 0.6664, 0.5434,

266.9079, 384.4911

3.4325

311.6523,  
319.8273, 453.5566

■ 0.0000, 0.0000,  
1.3195

■ 0.0000, 0.0000,  
0.0777

■ 47.9332, 48.1323,  
84.6060

■ 47.9332, 48.1323,  
84.6060

■ 39.8997, 38.8065,  
83.2302

■ 57.3453, 58.8823,  
86.1857

■ 33.1740, 30.8381,  
82.0466

■ 68.1930, 71.1079,  
87.9738

■ 27.6857, 24.1634,  
81.0475

■ 80.5358, 84.8651,  
89.9786

■ 23.3559, 18.7111,  
80.2233

■ 91.8514, 98.7206,  
92.0566

■ 20.0958, 14.4024,  
79.5635

■ 17.8028, 11.1484,  
79.0563

■ 16.3393, 8.8382,  
78.6875

■ 16.1330, 8.5038,  
78.6338

# Harmonies

## Analogous

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



42.9201, 48.1323, 83.8295



47.9332, 48.1323, 84.6060



52.6864, 48.1323, 75.6830

# Triad

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



47.9332, 48.1323, 84.6060



53.2819, 48.1323, 35.6558



37.0598, 48.1323, 44.5629

# Complementary

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



47.9332, 48.1323, 84.6060



66.3318, 70.9832, 47.2523

# 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.



39.4477, 48.1323, 34.4730



47.9332, 48.1323, 84.6060



48.6981, 48.1323, 30.0204

# Square

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



47.9332, 48.1323, 84.6060



55.9243, 48.1323, 46.4858



43.6308, 48.1323, 29.6317



36.8883, 48.1323, 58.8127



# Rectangle

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



47.9332, 48.1323, 84.6060



54.9687, 48.1323, 66.2486



43.6308, 48.1323, 29.6317



37.6213, 48.1323, 40.6431

# Sweetspot

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



47.9348, 48.1342, 84.6071



83.1149, 86.6858, 106.9592



58.3060, 72.2649, 77.6186



17.3379, 18.0474, 22.8196



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.



47.9348, 48.1342, 84.6071



52.2469, 51.5468, 101.8036



49.0079, 44.3363, 83.8175



14.5089, 15.1043, 19.0730



9.1438, 4.9346, 44.2135



0.7889, 0.5292, 3.4955



# Inverse Universe

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



56.4828, 48.9180, 51.2669



64.3758, 53.0073, 54.4187



64.9290, 76.3337, 48.3590



15.2057, 15.1101, 16.3684



19.4707, 9.9910, 3.0139

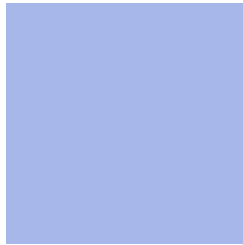


1.5647, 0.7988, 0.4251



# Previews

## White Background



This preview shows how the XYZ color 47.9332, 48.1323, 84.6060 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

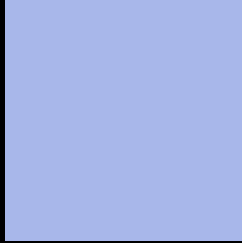
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 47.9332, 48.1323, 84.6060 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

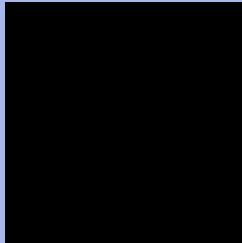
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 47.9332, 48.1323, 84.6060**

## **Background**



This preview shows how black text looks on a background with the XYZ color 47.9332, 48.1323, 84.6060.



This preview shows how white text looks on a background with the XYZ color 47.9332, 48.1323,



# 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

47.9332, 48.1323, 84.6060

### Protanopia

48.2305, 47.9970, 83.8131

### Deuteranopia

49.2797, 48.2184, 84.5517



## Tritanopia

43.7826, 48.0075, 64.0855

# Trichromacy



## Original Color

47.9332, 48.1323, 84.6060

## Protanomaly

48.0135, 47.8851, 83.8030

## Deuteranomaly

48.8128, 48.2806, 84.5883

## Tritanomaly

45.1345, 47.9166, 71.1600

# Monochromacy



## Original Color

47.9332, 48.1323, 84.6060

## Achromatopsia

45.5594, 47.9320, 52.1980

## Achromatomaly

46.1613, 48.0102, 62.7111

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 47.9332, 48.1323, 84.6060 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(168, 183, 234)` looks like.

```
.text, #text, p{  
    color:rgb(168, 183, 234)  
}
```

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(168, 183, 234) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(168, 183, 234) }
```

## Border

The CSS property to change the border of an element to XYZ 47.9332, 48.1323, 84.6060 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(168, 183, 234) }
```



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

```
.border{ border-color:rgb(168, 183, 234) }
```

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

Here you see how a box with a 4 pixel `rgb(168, 183, 234)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(168, 183, 234); -webkit-box-  
shadow:4px 4px 4px 4px rgb(168, 183, 234);  
box-shadow:4px 4px 4px 4px rgb(168, 183,  
234) }
```

# Background

The CSS property to change the background color of an element to XYZ 47.9332, 48.1323, 84.6060 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(168, 183, 234) }
```

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

```
.background{ background-color: rgb(168,  
183, 234) }
```

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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