

# Converting Colors

XYZ(46.5107, 50.7757, 64.6278)

Have a look what the booklet for  
XYZ(46.5107, 50.7757, 64.6278)  
contains.

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# Color

**XYZ(46.3263, 50.6050,  
64.4528)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AAC0CC
RGB	170, 192, 204
RGB Percent	67%, 75%, 80%
CMY	0.3333, 0.2470, 0.2000
CMYK	0.17, 0.06, 0.00, 0.20
HSL	201°, 25%, 73%
HSV	201°, 17%, 80%
XYZ	46.3263, 50.6050, 64.4528
YIQ	186.7900, -16.9640, -0.9320

# Conversions

## Conversions Part 2

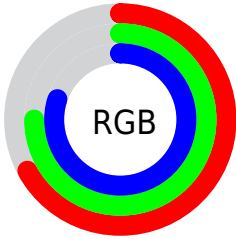
Format	Color
R <sub>Y</sub> B	170, 183, 204
Decimal	11190476
CIE Lab	76.44, -4.96, -8.55
CIE LCh	76, 9.882, 239.908
Yxy	50.6050, 0.2871, 0.3136
Android (android.graphics.Color)	4289380556 (0xFFAAC0CC)
YUV	186.7900, 8.4845, -14.7248
Hunter-Lab	71.1372, -8.2465, -3.9228

# Details

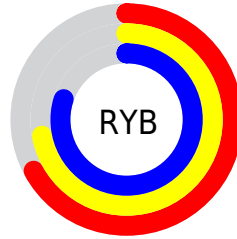
The XYZ color **46.3263, 50.6050, 64.4528** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **48.8858, 49.1954, 44.9503**, and the grayscale version is **47.0776, 49.5293, 53.9374**.

A 20% lighter version of the original color is **82.9814, 90.5236, 107.7069**, and **22.0738, 24.4492, 32.4099** is the 20% darker color. If you saturate the color by 10%, you get **40.7121, 45.4227, 63.7492**, and if you desaturate by 10%, it is **52.7051, 56.2989, 65.2164**.

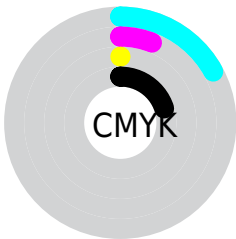
# Distribution



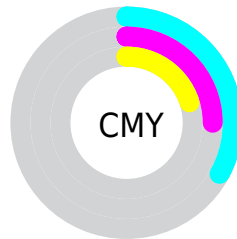
- Red (67%)
- Green (75%)
- Blue (80%)



- Red (67%)
- Yellow (72%)
- Blue (80%)



- Cyan (17%)
- Magenta (6%)
- Yellow (0%)
- Black (20%)



- Cyan (33%)
- Magenta (25%)
- Yellow (20%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.3263, 50.6050, 64.4528 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 46.3263, 50.6050, 64.4528 by changing the saturation by 10% instead.



■ 46.3263, 50.6050,  
64.4528

■ 46.3263, 50.6050,  
64.4528

362.8129,  
389.0272, 459.0752

■ 32.7091, 35.8943,  
46.5690

■ 83.9320, 91.0706,  
112.8685

■ 22.0619, 24.3526,  
32.3432

108.6512,  
117.5944, 144.2375

■ 14.0192, 15.5954,  
21.3568

137.8018,  
148.8247, 180.9386

■ 8.2158, 9.2383,  
13.1912

171.7491,  
185.1458, 223.3904

■ 4.2863, 4.8969,  
7.4281

210.8586,  
226.9422, 272.0114

■ 1.8654, 2.1869,  
3.6488

255.4954,

■ 0.5566, 0.7129,

274.5983, 327.2202

1.4347

306.0251,  
328.4985, 389.4353

■ 0.0000, 0.0000,  
0.1686

■ 0.0000, 0.0000,  
0.0000

■ 46.3263, 50.6050,  
64.4528

■ 46.3263, 50.6050,  
64.4528

■ 40.7121, 45.4227,  
63.7492

■ 52.7051, 56.2989,  
65.2164

■ 35.8256, 40.7274,  
63.1005

■ 59.8746, 62.5154,  
66.0385

■ 31.6330, 36.5013,  
62.5058

■ 67.8649, 69.2730,  
66.9217

■ 28.0965, 32.7232,  
61.9629

■ 76.7034, 76.5873,  
67.8676

■ 25.1737, 29.3697,  
61.4696

■ 79.8816, 81.1045,  
68.5720

■ 22.8174, 26.4144,  
61.0234

■ 81.9034, 85.1480,  
69.2460

■ 20.9724, 23.8271,  
60.6213

■ 84.0085, 89.3583,  
69.9477

■ 19.5672, 21.5692,  
60.2595

■ 86.1981, 93.7374,  
70.6775

■ 19.1528, 20.8668,  
60.1458

■ 87.8992, 97.1397,  
71.2446

# Harmonies

## Analogous

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



45.0624, 50.6050, 60.3704



46.3263, 50.6050, 64.4528



48.0928, 50.6050, 65.9987

# Triad

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



46.3263, 50.6050, 64.4528



51.7670, 50.6050, 55.1168



46.3361, 50.6050, 46.6844

# Complementary

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



46.3263, 50.6050, 64.4528



48.8858, 49.1954, 44.9503

# 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.



48.1043, 50.6050, 45.4729



46.3263, 50.6050, 64.4528



51.2680, 50.6050, 50.1461

# Square

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



46.3263, 50.6050, 64.4528



51.2620, 50.6050, 60.4009



49.9154, 50.6050, 46.6992



45.0680, 50.6050, 50.1192



# Rectangle

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



46.3263, 50.6050, 64.4528



49.3275, 50.6050, 65.3103



49.9154, 50.6050, 46.6992



46.8902, 50.6050, 46.0139

# Sweetspot

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



46.3278, 50.6071, 64.4539



89.0953, 94.8245, 108.2149



46.6045, 55.1059, 52.3829



18.8968, 20.1445, 23.1423



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

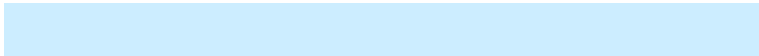


# Same Dimension

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



46.3278, 50.6071, 64.4539



73.2372, 80.6281, 106.3105



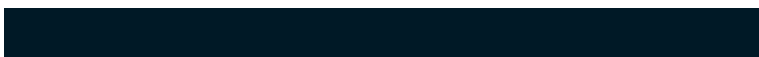
42.8270, 43.6056, 63.2870



11.1972, 12.0349, 14.3032



12.1452, 13.3143, 37.8861



0.6963, 0.8263, 1.9777



# Inverse Universe

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



48.7922, 45.3937, 56.0619



78.1195, 70.5604, 89.6260



52.5588, 56.5414, 46.1746



11.5129, 11.3339, 13.2356



18.3412, 9.1471, 14.7815

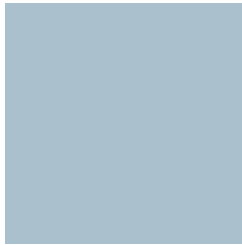


0.9814, 0.4860, 0.9479



# Previews

## White Background



This preview shows how the XYZ color 46.3263, 50.6050, 64.4528 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

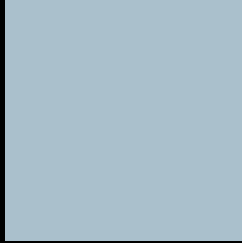
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 46.3263, 50.6050, 64.4528 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

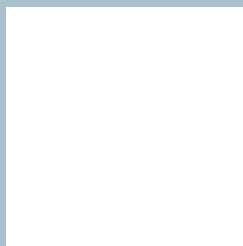
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 46.3263, 50.6050, 64.4528**

## **Background**



This preview shows how black text looks on a background with the XYZ color 46.3263, 50.6050, 64.4528.



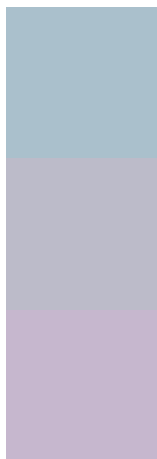
This preview shows how white text looks on a background with the XYZ color 46.3263, 50.6050,



# 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

46.3263, 50.6050, 64.4528

### Protanopia

49.0520, 50.4491, 62.4107

### Deuteranopia

51.3628, 50.3290, 65.3999



## Tritanopia

46.9067, 50.8622, 66.3766

# Trichromacy



## Original Color

46.3263, 50.6050, 64.4528

## Protanomaly

47.9143, 50.4832, 63.0960

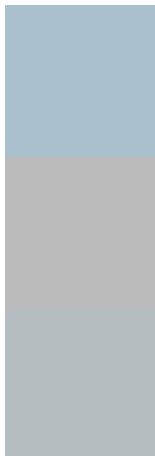
## Deuteranomaly

49.3174, 50.2170, 64.8511

## Tritanomaly

46.7848, 50.8134, 65.7347

# Monochromacy



## Original Color

46.3263, 50.6050, 64.4528

## Achromatopsia

47.2335, 49.6933, 54.1160

## Achromatomaly

46.8793, 50.0692, 57.6456

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.3263, 50.6050, 64.4528 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(170, 192, 204)` looks like.

```
.text, #text, p{  
    color:rgb(170, 192, 204)  
}
```

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(170, 192, 204) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 192, 204) }
```

## Border

The CSS property to change the border of an element to XYZ 46.3263, 50.6050, 64.4528 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(170, 192, 204) }
```



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

```
.border{ border-color:rgb(170, 192, 204) }
```

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

Here you see how a box with a 4 pixel `rgb(170, 192, 204)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 192, 204); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 192, 204);  
box-shadow:4px 4px 4px 4px rgb(170, 192,  
204) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.3263, 50.6050, 64.4528 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 192, 204) }
```

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

```
.background{ background-color: rgb(170,  
192, 204) }
```

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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