

# Converting Colors

XYZ(30.5229, 20.2098, 43.3988)

Have a look what the booklet for  
XYZ(30.5229, 20.2098, 43.3988)  
contains.

<b>XYZ(30.5487, 20.2707, 43.3768)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(30.5487, 20.2707,  
43.3768)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B55AB0
RGB	181, 90, 176
RGB Percent	71%, 35%, 69%
CMY	0.2902, 0.6470, 0.3098
CMYK	0.00, 0.50, 0.03, 0.29
HSL	303°, 38%, 53%
HSV	303°, 50%, 71%
XYZ	30.5487, 20.2707, 43.3768
YIQ	127.0130, 26.6300, 46.0380

# Conversions

## Conversions Part 2

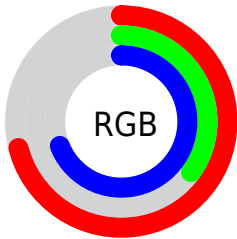
Format	Color
R <sub>Y</sub> B	181, 90, 176
Decimal	11885232
CIE Lab	52.14, 48.78, -29.68
CIE LCh	52, 57.098, 328.685
Yxy	20.2707, 0.3243, 0.2152
Android (android.graphics.Color)	4290075312 (0xFFB55AB0)
YUV	127.0130, 24.1506, 47.3466
Hunter-Lab	45.0230, 42.3244, -25.6061

# Details

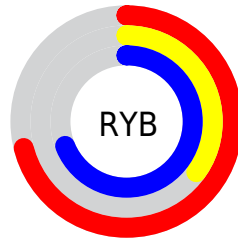
The XYZ color **30.5487, 20.2707, 43.3768** is a light color, and the websafe version is hex **CC66CC**. A complement of this color would be **22.8068, 36.0484, 16.5837**, and the grayscale version is **20.0913, 21.1376, 23.0189**.

A 20% lighter version of the original color is **59.9846, 43.8218, 81.6409**, and **12.8409, 7.1888, 19.4497** is the 20% darker color. If you saturate the color by 10%, you get **29.1059, 17.5417, 42.4122**, and if you desaturate by 10%, it is **32.3653, 23.7453, 44.4699**.

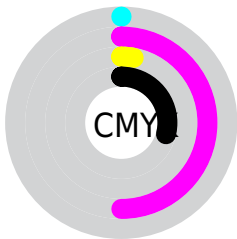
# Distribution



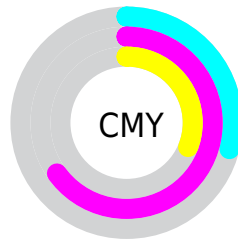
- Red (71%)
- Green (35%)
- Blue (69%)



- Red (71%)
- Yellow (35%)
- Blue (69%)



- Cyan (0%)
- Magenta (50%)
- Yellow (3%)
- Black (29%)



- Cyan (29%)
- Magenta (65%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.5487, 20.2707, 43.3768 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 30.5487, 20.2707, 43.3768 by changing the saturation by 10% instead.



30.5487, 20.2707,  
43.3768

30.5487, 20.2707,  
43.3768

296.3179,  
253.3768, 376.1257

20.4056, 12.5920,  
29.8473

59.9095, 43.8706,  
81.5716

12.8002, 7.1482,  
19.4716

79.8579, 60.5605,  
107.0740

7.3671, 3.5549,  
11.8313

103.8055, 81.0229,  
137.4044

3.7411, 1.4279,  
6.5078

132.1176,  
105.6423, 172.9813

1.5567, 0.2371,  
3.0825

165.1595,  
134.8030, 214.2234

0.3640, 0.0000,  
1.1369

203.2966,

0.0000, 0.0000,

168.8894, 261.5491

0.0000

246.8943,  
208.2858, 315.3771

■ 30.5487, 20.2707,  
43.3768

■ 30.5487, 20.2707,  
43.3768

■ 29.1059, 17.5417,  
42.4122

■ 32.3653, 23.7453,  
44.4699

■ 28.0075, 15.5005,  
41.5658

■ 34.5783, 28.0120,  
45.6985

■ 27.2227, 14.0856,  
40.8275

■ 37.2110, 33.1170,  
47.0706

■ 26.7147, 13.2232,  
40.1850

■ 40.2842, 39.1020,  
48.5931

■ 26.4122, 12.7662,  
39.6273

■ 43.8176, 46.0059,  
50.2726

■ 47.8293, 53.8655,  
52.1151

■ 52.3367, 62.7153,  
54.1265

■ 57.3563, 72.5882,  
56.3122

■ 62.9038, 83.5157,  
58.6774

# Harmonies

## Analogous

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



25.1790, 20.2707, 64.0484



30.5487, 20.2707, 43.3768



32.8247, 20.2707, 22.8179

# Triad

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



30.5487, 20.2707, 43.3768



19.5256, 20.2707, 2.9995



10.9949, 20.2707, 41.4012

# Complementary

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



30.5487, 20.2707, 43.3768



22.8068, 36.0484, 16.5837

# 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.



10.0751, 20.2707, 21.3412



30.5487, 20.2707, 43.3768



14.3609, 20.2707, 4.1665

# Square

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



30.5487, 20.2707, 43.3768



25.7165, 20.2707, 4.4142



11.1733, 20.2707, 9.2152



13.9969, 20.2707, 62.5581



# Rectangle

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



30.5487, 20.2707, 43.3768



31.9912, 20.2707, 13.2837



11.1733, 20.2707, 9.2152



10.4624, 20.2707, 34.0693

# Sweetspot

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



30.5494, 20.2716, 43.3772



69.3072, 64.4941, 85.6367



16.6703, 13.0585, 45.3586



14.7369, 13.4667, 18.3882



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787



# Same Dimension

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



30.5494, 20.2716, 43.3772



51.9640, 31.1097, 75.8411



26.8064, 18.7744, 23.6670



8.8295, 8.6385, 10.6004



18.2163, 8.8041, 27.3627



0.5792, 0.2794, 0.8930



# Inverse Universe

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



30.5494, 20.2716, 43.3772



51.9640, 31.1097, 75.8411



25.4785, 37.1171, 30.6528



8.8295, 8.6385, 10.6004



18.2163, 8.8041, 27.3627



0.5792, 0.2794, 0.8930



# Previews

## White Background



This preview shows how the XYZ color 30.5487, 20.2707, 43.3768 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

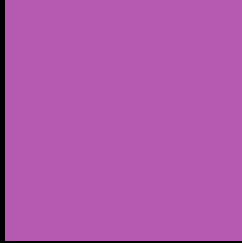
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 30.5487, 20.2707, 43.3768 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

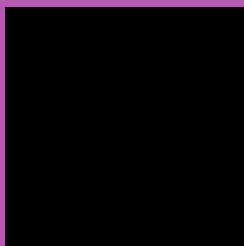
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 30.5487, 20.2707, 43.3768**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.5487, 20.2707, 43.3768.



This preview shows how white text looks on a background with the XYZ color 30.5487, 20.2707,

43.3768.

# 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

30.5487, 20.2707, 43.3768

### Protanopia

22.2532, 20.5580, 59.2951

### Deuteranopia

20.8942, 20.4477, 40.8758



## Tritanopia

25.2658, 20.1796, 18.1862

# Trichromacy



## Original Color

30.5487, 20.2707, 43.3768

## Protanomaly

23.6590, 19.3621, 52.9424

## Deuteranomaly

23.2842, 19.5817, 41.5822

## Tritanomaly

26.9056, 20.1220, 25.7584

# Monochromacy



## Original Color

30.5487, 20.2707, 43.3768

## Achromatopsia

20.1725, 21.2231, 23.1119

## Achromatomaly

23.1608, 20.2820, 29.4822

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.5487, 20.2707, 43.3768 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(181, 90, 176)` looks like.

```
.text, #text, p{  
    color:rgb(181, 90, 176)  
}
```

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(181, 90, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 90, 176) }
```

## Border

The CSS property to change the border of an element to XYZ 30.5487, 20.2707, 43.3768 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(181, 90, 176) }
```



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

```
.border{ border-color:rgb(181, 90, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 90, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(181, 90, 176); -webkit-box-shadow:4px 4px 4px 4px rgb(181, 90, 176); box-shadow:4px 4px 4px 4px rgb(181, 90, 176) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.5487, 20.2707, 43.3768 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 90, 176) }
```

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

```
.background{ background-color: rgb(181, 90,  
176) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor