

# Converting Colors

XYZ(34.6853, 29.4743, 51.8345)

Have a look what the booklet for  
XYZ(34.6853, 29.4743, 51.8345)  
contains.

<b>XYZ(34.7237, 29.4950, 52.0071)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(34.7237, 29.4950,  
52.0071)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AC86BD
RGB	172, 134, 189
RGB Percent	67%, 53%, 74%
CMY	0.3255, 0.4745, 0.2588
CMYK	0.09, 0.29, 0.00, 0.26
HSL	281°, 29%, 63%
HSV	281°, 29%, 74%
XYZ	34.7237, 29.4950, 52.0071
YIQ	151.6320, 4.9930, 25.1610

# Conversions

## Conversions Part 2

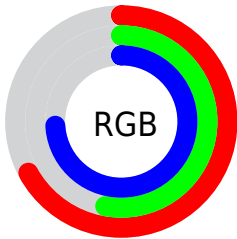
<b>Format</b>	<b>Color</b>
<b>RYB</b>	172, 134, 189
Decimal	11306685
CIELab	61.22, 24.61, -23.21
CIELCh	61, 33.825, 316.680
Yxy	29.4950, 0.2988, 0.2538
Android (android.graphics.Color)	4289496765 (0xFFAC86BD)
YUV	151.6320, 18.4224, 17.8627
Hunter-Lab	54.3093, 19.0862, -18.7602

# Details

The XYZ color **34.7237, 29.4950, 52.0071** is a light color, and the websafe version is hex **CC99CC**. A complement of this color would be **35.2642, 44.6965, 29.3243**, and the grayscale version is **29.6091, 31.1511, 33.9235**.

A 20% lighter version of the original color is **66.4596, 59.0530, 94.2818**, and **15.2220, 12.0402, 24.8142** is the 20% darker color. If you saturate the color by 10%, you get **31.0874, 24.0836, 51.1547**, and if you desaturate by 10%, it is **38.8851, 35.8717, 53.0190**.

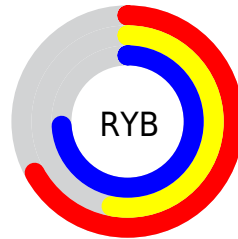
# Distribution



Red (67%)

Green (53%)

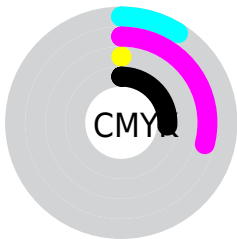
Blue (74%)



Red (67%)

Yellow (53%)

Blue (74%)

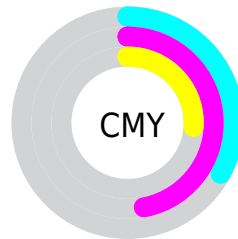


Cyan (9%)

Magenta (29%)

Yellow (0%)

Black (26%)



Cyan (33%)

Magenta (47%)

Yellow (26%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.7237, 29.4950, 52.0071 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 34.7237, 29.4950, 52.0071 by changing the saturation by 10% instead.



■ 34.7237, 29.4950,  
52.0071

■ 34.7237, 29.4950,  
52.0071

314.8765,  
299.5434, 411.4217

■ 23.6156, 19.4556,  
36.6285

■ 66.3944, 58.8626,  
94.5684

■ 15.1719, 11.9999,  
24.6264

■ 87.6877, 78.9596,  
122.5881

■ 9.0272, 6.7436,  
15.5825

■ 113.1068,  
103.1780, 155.6586

■ 4.8162, 3.3023,  
9.0780

143.0170,  
131.9020, 194.1985

■ 2.1735, 1.2915,  
4.6946

177.7837,  
165.5162, 238.6262

■ 0.7287, 0.1346,  
2.0136

217.7723,

■ 0.0000, 0.0000,

204.4049, 289.3602

0.5636

263.3481,  
248.9525, 346.8193

■ 0.0000, 0.0000,  
0.0000

■ 34.7237, 29.4950,  
52.0071

■ 34.7237, 29.4950,  
52.0071

■ 31.0874, 24.0836,  
51.1547

■ 38.8851, 35.8717,  
53.0190

■ 27.9477, 19.5835,  
50.4516

■ 43.5925, 43.2562,  
54.1963

■ 25.2778, 15.9413,  
49.8893

■ 48.8690, 51.6932,  
55.5467

■ 23.0467, 13.0963,  
49.4577

■ 54.7356, 61.2234,  
57.0770

■ 21.2193, 10.9796,  
49.1455

■ 61.2119, 71.8856,  
58.7937

■ 19.7548, 9.5102,  
48.9391

■ 68.3168, 83.7162,  
60.7028

■ 18.5808, 8.5451,  
48.8146

■ 72.3554, 89.3246,  
61.5724

■ 18.4809, 8.4662,  
48.8047

■ 74.0796, 90.2134,  
61.6531

■ 75.8655, 91.1340,  
61.7367

# Harmonies

## Analogous

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



30.5597, 29.4950, 61.7342



34.7237, 29.4950, 52.0071



37.2012, 29.4950, 38.0914

# Triad

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



34.7237, 29.4950, 52.0071



30.0498, 29.4950, 13.6986



20.6176, 29.4950, 39.6659

# Complementary

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



34.7237, 29.4950, 52.0071



35.2642, 44.6965, 29.3243

# 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.



20.5121, 29.4950, 26.7989



34.7237, 29.4950, 52.0071



25.6517, 29.4950, 13.9102

# Square

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



34.7237, 29.4950, 52.0071



34.3166, 29.4950, 17.3950



22.2641, 29.4950, 18.0780



22.5694, 29.4950, 53.4191



# Rectangle

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



34.7237, 29.4950, 52.0071



37.4092, 29.4950, 29.3510



22.2641, 29.4950, 18.0780



20.3729, 29.4950, 35.0474

# Sweetspot

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



34.7247, 29.4963, 52.0077



78.0332, 77.4073, 97.0545



30.1518, 31.0113, 52.5412



16.5031, 16.2070, 20.8010



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



34.7247, 29.4963, 52.0077



57.8780, 46.3723, 92.1264



37.6405, 31.1215, 46.6276



9.6352, 9.5443, 12.0066



12.5155, 5.7380, 32.8408



0.5544, 0.2578, 1.2894



# Inverse Universe

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



35.0982, 30.1046, 33.2403



58.8260, 47.7424, 52.3481



33.0706, 43.4805, 33.0698



9.6483, 9.5836, 10.5372



14.6718, 7.4999, 3.5654



0.6049, 0.3059, 0.2988



# Previews

## White Background



This preview shows how the XYZ color 34.7237, 29.4950, 52.0071 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

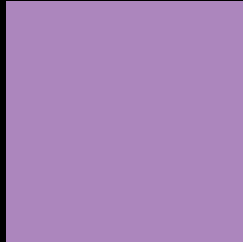
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.7237, 29.4950, 52.0071 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

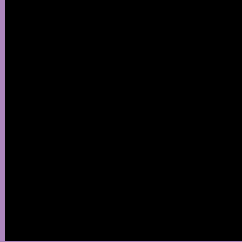
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 34.7237, 29.4950, 52.0071**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.7237, 29.4950, 52.0071.



This preview shows how white text looks on a background with the XYZ color 34.7237, 29.4950,



# 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

34.7237, 29.4950, 52.0071

### Protanopia

30.1448, 29.6215, 57.5548

### Deuteranopia

30.2504, 29.5894, 51.1307



## Tritanopia

30.9183, 29.4237, 33.7555

# Trichromacy



## Original Color

34.7237, 29.4950, 52.0071

## Protanomaly

31.5559, 29.4892, 55.6586

## Deuteranomaly

31.7388, 29.4529, 51.5891

## Tritanomaly

32.0285, 29.2184, 39.5489

# Monochromacy



## Original Color

34.7237, 29.4950, 52.0071

## Achromatopsia

29.8446, 31.3989, 34.1934

## Achromatomaly

31.2150, 30.3383, 39.8080

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.7237, 29.4950, 52.0071 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(172, 134, 189)` looks like.

```
.text, #text, p{  
    color:rgb(172, 134, 189)  
}
```

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(172, 134, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 134, 189) }
```

## Border

The CSS property to change the border of an element to XYZ 34.7237, 29.4950, 52.0071 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(172, 134, 189) }
```



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

```
.border{ border-color:rgb(172, 134, 189) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 134, 189)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 134, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 134, 189);  
box-shadow:4px 4px 4px 4px rgb(172, 134,  
189) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.7237, 29.4950, 52.0071 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 134, 189) }
```

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

```
.background{ background-color: rgb(172,  
134, 189) }
```

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