

# Converting Colors

XYZ(35.9695, 25.8014, 71.4910)

Have a look what the booklet for  
XYZ(35.9695, 25.8014, 71.4910)  
contains.

<b>XYZ(35.9695, 25.8014, 71.4910)</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(35.9695, 25.8014,  
71.4910)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AC71DD
RGB	172, 113, 221
RGB Percent	67%, 44%, 87%
CMY	0.3255, 0.5568, 0.1333
CMYK	0.22, 0.49, 0.00, 0.13
HSL	273°, 61%, 65%
HSV	273°, 49%, 87%
XYZ	35.9695, 25.8014, 71.4910
YIQ	142.9530, 0.4960, 46.0960

# Conversions

## Conversions Part 2

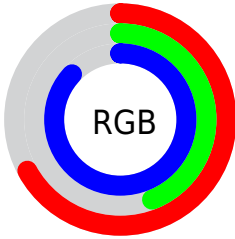
Format	Color
R <sub>Y</sub> B	172, 113, 221
Decimal	11301341
CIE <sub>Lab</sub>	57.85, 43.35, -46.51
CIE <sub>LCh</sub>	58, 63.578, 312.988
Y <sub>xy</sub>	25.8014, 0.2699, 0.1936
Android (android.graphics.Color)	4289491421 (0xFFAC71DD)
YUV	142.9530, 38.4772, 25.4742
Hunter-Lab	50.7951, 37.5098, -47.8905

# Details

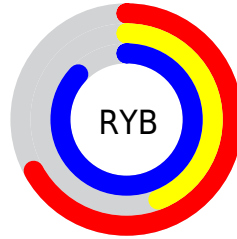
The XYZ color **35.9695, 25.8014, 71.4910** is a light color, and the websafe version is hex **9966CC**. A complement of this color would be **43.7381, 60.5872, 25.0131**, and the grayscale version is **25.9419, 27.2929, 29.7220**.

A 20% lighter version of the original color is **63.9993, 51.1504, 101.1076**, and **15.9052, 10.0535, 36.6995** is the 20% darker color. If you saturate the color by 10%, you get **31.6794, 20.3650, 70.6682**, and if you desaturate by 10%, it is **41.0279, 32.5260, 72.5228**.

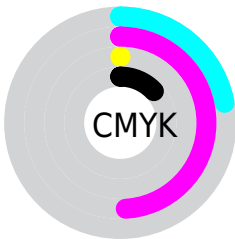
# Distribution



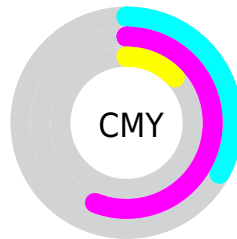
- Red (67%)
- Green (44%)
- Blue (87%)



- Red (67%)
- Yellow (44%)
- Blue (87%)



- Cyan (22%)
- Magenta (49%)
- Yellow (0%)
- Black (13%)



- Cyan (33%)
- Magenta (56%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.9695, 25.8014, 71.4910 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 35.9695, 25.8014, 71.4910 by changing the saturation by 10% instead.





 35.9695, 25.8014,  
71.4910


 35.9695, 25.8014,  
71.4910


320.2608,  
281.8058, 484.6978

 24.5806, 16.6751,  
52.2587


 68.3092, 52.9544,  
123.0336


 15.8920, 10.0031,  
36.8277


 89.9907, 71.7499,  
156.1809

 9.5381, 5.4010,  
24.7793


 115.8338, 94.5372,  
194.8037

 5.1537, 2.4844,  
15.6952

 146.2039,  
121.7009, 239.3204

 2.3734, 0.8688,  
9.1567

181.4662,  
153.6251, 290.1497

 0.8318, 0.0000,  
4.7453

221.9863,

 0.0000, 0.0000,

190.6944, 347.7100

2.0425

268.1293,  
233.2932, 412.4198

■ 0.0000, 0.0000,  
0.5812

■ 0.0000, 0.0000,  
0.0000

■ 35.9695, 25.8014,  
71.4910

■ 35.9695, 25.8014,  
71.4910

■ 31.6794, 20.3650,  
70.6682

■ 41.0279, 32.5260,  
72.5228

■ 28.1065, 16.1230,  
70.0378

■ 46.8951, 40.6171,  
73.7753


■ 25.1978, 12.9737,  
69.5832


■ 53.6118, 50.1506,  
75.2615

■ 22.8897, 10.7960,  
69.2845


■ 61.2151, 61.1956,  
76.9926


 21.0858, 9.4028,  
69.1107

 69.7397, 73.8166,  
78.9794

 20.8989, 9.2661,  
69.0941

 79.2183, 88.0744,  
81.2319

 85.4944, 95.6514,  
82.3636

 89.0347, 97.4764,  
82.5293

 90.0512, 98.0005,  
82.5769

# Harmonies

## Analogous

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



27.9766, 25.8014, 92.2898



35.9695, 25.8014, 71.4910



41.4298, 25.8014, 42.2920

# Triad

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



35.9695, 25.8014, 71.4910



29.0787, 25.8014, 4.0076



12.8108, 25.8014, 38.6532

# Complementary

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



35.9695, 25.8014, 71.4910



43.7381, 60.5872, 25.0131

# 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.



12.9847, 25.8014, 17.4921



35.9695, 25.8014, 71.4910



21.3668, 25.8014, 3.8025

# Square

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



35.9695, 25.8014, 71.4910



36.9194, 25.8014, 8.0593



15.8065, 25.8014, 7.1843



15.2685, 25.8014, 67.6673



# Rectangle

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



35.9695, 25.8014, 71.4910



42.3198, 25.8014, 25.9559



15.8065, 25.8014, 7.1843



12.5813, 25.8014, 30.3450

# Sweetspot

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



35.9705, 25.8024, 71.4916



77.9396, 74.8328, 104.9441



33.0304, 35.0689, 73.4352



16.2172, 15.3451, 22.3571



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.



35.9705, 25.8024, 71.4916



43.4860, 27.7638, 97.6747



48.3011, 32.2139, 69.5914



13.0151, 12.9659, 16.4688



12.2727, 5.4510, 40.1437



0.8939, 0.4041, 2.6053



# Inverse Universe

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



42.2463, 29.7920, 37.7071



53.7702, 34.2815, 43.2215



35.8547, 56.4992, 25.7233



13.3004, 13.1493, 14.8433



18.7215, 9.4897, 8.1796

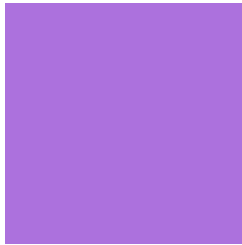


1.2560, 0.6320, 0.7568



# Previews

## White Background



This preview shows how the XYZ color 35.9695, 25.8014, 71.4910 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

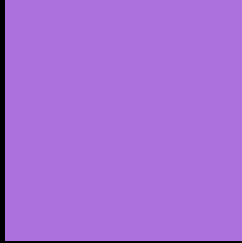
Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail



# Black Background



This preview shows how the XYZ color 35.9695, 25.8014, 71.4910 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

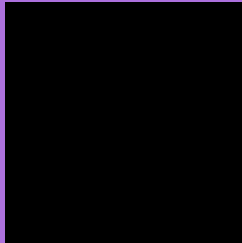
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 35.9695, 25.8014, 71.4910**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.9695, 25.8014, 71.4910.



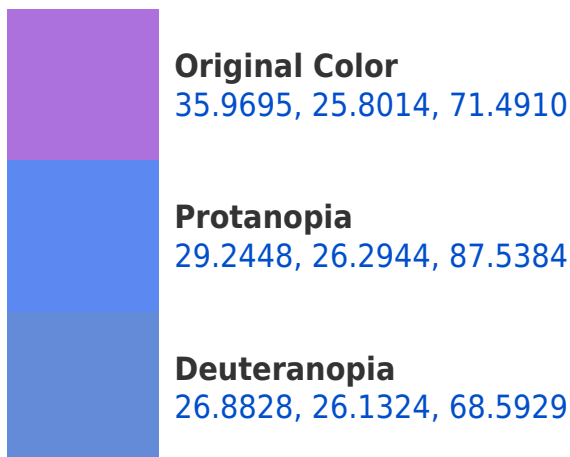
This preview shows how white text looks on a background with the XYZ color 35.9695, 25.8014,



# 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





## Tritanopia

27.4318, 25.8265, 29.1304

# Trichromacy



## Original Color

35.9695, 25.8014, 71.4910



## Protanomaly

30.4556, 25.4438, 81.1479



## Deuteranomaly

29.2417, 25.4628, 69.7033



## Tritanomaly

29.9941, 25.5000, 41.8692

# Monochromacy



## Original Color

35.9695, 25.8014, 71.4910



## Achromatopsia

26.1081, 27.4677, 29.9124



## Achromatomaly

28.9284, 26.3128, 42.0823

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.9695, 25.8014, 71.4910 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, 113, 221)` looks like.

```
.text, #text, p{  
    color:rgb(172, 113, 221)  
}
```

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, 113, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 113, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 35.9695, 25.8014, 71.4910 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, 113, 221) }
```



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

```
.border{ border-color:rgb(172, 113, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 113, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 113, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 113, 221);  
box-shadow:4px 4px 4px 4px rgb(172, 113,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.9695, 25.8014, 71.4910 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 113, 221) }
```

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

```
.background{ background-color: rgb(172,  
113, 221) }
```

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