

# Converting Colors

XYZ(34.4252, 21.6308, 70.9525)

Have a look what the booklet for  
XYZ(34.4252, 21.6308, 70.9525)  
contains.

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# Color

**XYZ(34.3865, 21.6467,  
70.7725)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AF5ADD
RGB	175, 90, 221
RGB Percent	69%, 35%, 87%
CMY	0.3137, 0.6470, 0.1333
CMYK	0.21, 0.59, 0.00, 0.13
HSL	279°, 66%, 61%
HSV	279°, 59%, 87%
XYZ	34.3865, 21.6467, 70.7725
YIQ	130.3490, 8.6090, 58.7610

# Conversions

## Conversions Part 2

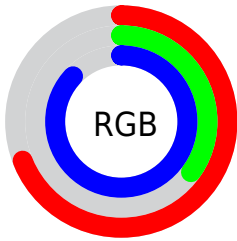
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	175, 90, 221
Decimal	11492061
CIE <sub>Lab</sub>	53.65, 56.06, -53.16
CIE <sub>LCh</sub>	54, 77.258, 316.521
Y <sub>xy</sub>	21.6467, 0.2712, 0.1707
Android (android.graphics.Color)	4289682141 (0xFFAF5ADD)
YUV	130.3490, 44.6909, 39.1589
Hunter-Lab	46.5260, 50.5055, -57.6201

# Details

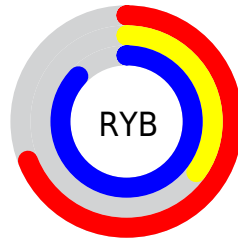
The XYZ color **34.3865, 21.6467, 70.7725** is a light color, and the websafe version is hex **CC66FF**. The color can be described as light muted purple. A complement of this color would be **37.8557, 57.6858, 18.8128**, and the grayscale version is **21.1869, 22.2903, 24.2741**.

A 20% lighter version of the original color is **61.6275, 44.4902, 99.9471**, and **15.0003, 7.8406, 36.3201** is the 20% darker color. If you saturate the color by 10%, you get **31.1001, 17.5849, 70.1621**, and if you desaturate by 10%, it is **38.3288, 26.8698, 71.5732**.

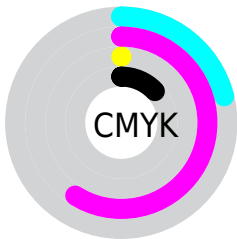
# Distribution



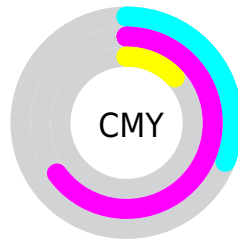
- Red (69%)
- Green (35%)
- Blue (87%)



- Red (69%)
- Yellow (35%)
- Blue (87%)



- Cyan (21%)
- Magenta (59%)
- Yellow (0%)
- Black (13%)




- Cyan (31%)
- Magenta (65%)
- Yellow (13%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 34.3865, 21.6467, 70.7725 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 34.3865, 21.6467, 70.7725 by changing the saturation by 10% instead.



 34.3865, 21.6467,  
70.7725


 34.3865, 21.6467,  
70.7725


313.4077,  
260.6957, 482.1200


 23.3550, 13.5975,  
51.6759


 65.8746, 46.1614,  
122.0012


 14.9780, 7.8413,  
36.3663


 87.0618, 63.3957,  
154.9703

 8.8901, 3.9936,  
24.4253


 112.3650, 84.4605,  
193.4006

 4.7261, 1.6700,  
15.4343

 142.1495,  
109.7401, 237.7108

 2.1206, 0.4041,  
8.9748

176.7807,  
139.6191, 288.3192

 0.7004, 0.0000,  
4.6281

216.6239,

 0.0000, 0.0000,

174.4817, 345.6446

1.9759

262.0444,  
214.7125, 410.1053

■ 0.0000, 0.0000,  
0.5404

■ 0.0000, 0.0000,  
0.0000

■ 34.3865, 21.6467,  
70.7725

■ 34.3865, 21.6467,  
70.7725

■ 31.1001, 17.5849,  
70.1621

■ 38.3288, 26.8698,  
71.5732

■ 28.4144, 14.5794,  
69.7235


■ 42.9704, 33.3415,  
72.5778


■ 26.2687, 12.5102,  
69.4372


■ 48.3540, 41.1435,  
73.8000


■ 24.5636, 11.1811,  
69.2705


■ 54.5175, 50.3499,  
75.2521


 24.4482, 11.0958,  
69.2602

 61.4964, 61.0291,  
76.9456

 69.3236, 73.2448,  
78.8909

 78.0304, 87.0572,  
81.0981

 83.7642, 94.7594,  
82.2826

 86.4129, 96.1249,  
82.4065

# Harmonies

## Analogous

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



25.4299, 21.6467, 99.6122



34.3865, 21.6467, 70.7725



40.2089, 21.6467, 35.8426

# Triad

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



34.3865, 21.6467, 70.7725



24.5035, 21.6467, 1.2367



8.7944, 21.6467, 39.0162

# Complementary

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



34.3865, 21.6467, 70.7725



37.8557, 57.6858, 18.8128

# 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.



8.6712, 21.6467, 14.4767



34.3865, 21.6467, 70.7725



16.3802, 21.6467, 1.3264

# Square

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



34.3865, 21.6467, 70.7725



33.5537, 21.6467, 3.5723



11.0670, 21.6467, 4.0800



11.4660, 21.6467, 74.3860



# Rectangle

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



34.3865, 21.6467, 70.7725



40.7344, 21.6467, 18.7718



11.0670, 21.6467, 4.0800



8.4843, 21.6467, 29.1223

# Sweetspot

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



34.3874, 21.6476, 70.7730



76.4321, 71.2004, 104.3224



26.3615, 25.5814, 71.9553



15.7919, 14.3817, 22.1936



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.



34.3874, 21.6476, 70.7730



42.0888, 23.2427, 96.8757



44.3187, 27.0224, 59.7143



13.1476, 13.0342, 16.4750



14.3292, 6.5111, 40.2399



1.0203, 0.4692, 2.6112



# Inverse Universe

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



37.9194, 24.4627, 26.0161



48.2384, 27.9721, 26.7209



32.7519, 54.9585, 22.9215



13.2439, 13.1267, 14.5457



18.1614, 9.2656, 5.2302

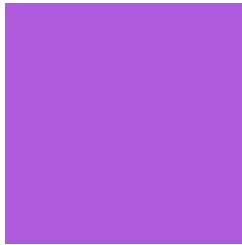


1.2166, 0.6163, 0.5496



# Previews

## White Background



This preview shows how the XYZ color 34.3865, 21.6467, 70.7725 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

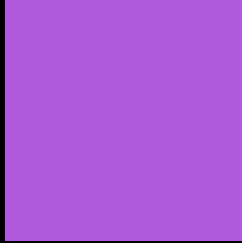
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 34.3865, 21.6467, 70.7725 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

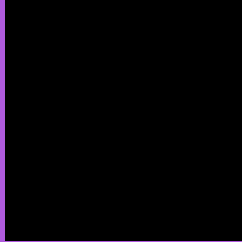
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 34.3865, 21.6467, 70.7725**

## **Background**



This preview shows how black text looks on a background with the XYZ color 34.3865, 21.6467, 70.7725.



This preview shows how white text looks on a background with the XYZ color 34.3865, 21.6467,



# 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

34.3865, 21.6467, 70.7725

### Protanopia

26.2539, 22.1489, 97.4992

### Deuteranopia

22.5330, 21.8823, 65.9869



## Tritanopia

24.4443, 21.4450, 22.2530

# Trichromacy



## Original Color

34.3865, 21.6467, 70.7725



## Protanomaly

26.2862, 20.2836, 87.3237



## Deuteranomaly

24.8321, 20.4705, 67.6082



## Tritanomaly

27.1199, 21.0528, 35.8919

# Monochromacy



## Original Color

34.3865, 21.6467, 70.7725



## Achromatopsia

21.2178, 22.3228, 24.3095



## Achromatomaly

24.5957, 21.0168, 37.4106

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 34.3865, 21.6467, 70.7725 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(175, 90, 221)` looks like.

```
.text, #text, p{  
    color:rgb(175, 90, 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(175, 90, 221) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 90, 221) }
```

## Border

The CSS property to change the border of an element to XYZ 34.3865, 21.6467, 70.7725 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(175, 90, 221) }
```



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

```
.border{ border-color:rgb(175, 90, 221) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 90, 221)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 90, 221); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 90, 221);  
box-shadow:4px 4px 4px 4px rgb(175, 90,  
221) }
```

# Background

The CSS property to change the background color of an element to XYZ 34.3865, 21.6467, 70.7725 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 90, 221) }
```

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

```
.background{ background-color: rgb(175, 90,  
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](#).

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