

# Converting Colors

XYZ(33.1790, 21.5619, 66.3903)

Have a look what the booklet for  
XYZ(33.1790, 21.5619, 66.3903)  
contains.

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# Color

**XYZ(33.1933, 21.5057,  
66.6915)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AC5DD7
RGB	172, 93, 215
RGB Percent	67%, 36%, 84%
CMY	0.3255, 0.6353, 0.1569
CMYK	0.20, 0.57, 0.00, 0.16
HSL	279°, 60%, 60%
HSV	279°, 57%, 84%
XYZ	33.1933, 21.5057, 66.6915
YIQ	130.5290, 7.9220, 54.6900

# Conversions

## Conversions Part 2

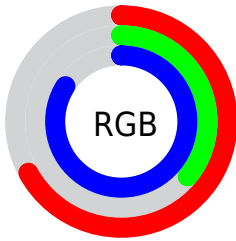
<b>Format</b>	<b>Color</b>
<b>RYB</b>	172, 93, 215
Decimal	11296215
CIELab	53.50, 52.54, -50.03
CIELCh	53, 72.549, 316.406
Yxy	21.5057, 0.2734, 0.1772
Android (android.graphics.Color)	4289486295 (0xFFAC5DD7)
YUV	130.5290, 41.6442, 36.3701
Hunter-Lab	46.3742, 46.6101, -52.8039

# Details

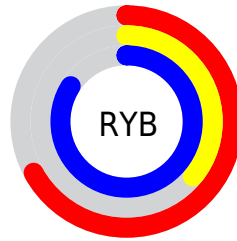
The XYZ color **33.1933, 21.5057, 66.6915** is a light color, and the websafe version is hex **9966CC**. The color can be described as light muted purple. A complement of this color would be **36.4303, 54.6260, 18.9806**, and the grayscale version is **21.2613, 22.3685, 24.3593**.

A 20% lighter version of the original color is **60.9620, 44.6008, 100.0035**, and **14.2193, 7.7338, 33.5442** is the 20% darker color. If you saturate the color by 10%, you get **29.9487, 17.4148, 66.0733**, and if you desaturate by 10%, it is **37.0648, 26.7079, 67.4919**.

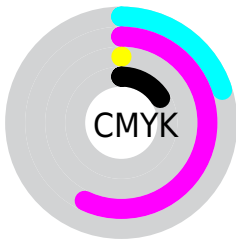
# Distribution



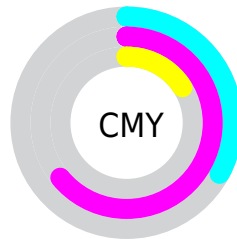
- Red (67%)
- Green (36%)
- Blue (84%)



- Red (67%)
- Yellow (36%)
- Blue (84%)



- Cyan (20%)
- Magenta (57%)
- Yellow (0%)
- Black (16%)




- Cyan (33%)
- Magenta (64%)
- Yellow (16%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.1933, 21.5057, 66.6915 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 33.1933, 21.5057, 66.6915 by changing the saturation by 10% instead.




 33.1933, 21.5057,  
66.6915


 33.1933, 21.5057,  
66.6915


308.1695,  
259.9539, 467.3174

 22.4345, 13.4942,  
48.3739


 64.0299, 45.9277,  
116.1147

 14.2949, 7.7697,  
33.7610


 84.8383, 63.1069,  
148.0574

 8.4091, 3.9479,  
22.4342


 109.7274, 84.1107,  
185.3789

 4.4118, 1.6445,  
13.9749

 139.0625,  
109.3237, 228.4978

 1.9377, 0.3873,  
7.9647

173.2089,  
139.1300, 277.8325

 0.5986, 0.0000,  
3.9849

212.5319,

 0.0000, 0.0000,

173.9143, 333.8017

1.6171

257.3970,  
214.0608, 396.8238

■ 0.0000, 0.0000,  
0.3030

■ 0.0000, 0.0000,  
0.0000

■ 33.1933, 21.5057,  
66.6915

■ 33.1933, 21.5057,  
66.6915

■ 29.9487, 17.4148,  
66.0733

■ 37.0648, 26.7079,  
67.4919

■ 27.2812, 14.3405,  
65.6204

■ 41.6026, 33.1004,  
68.4867

■ 25.1366, 12.1757,  
65.3156

■ 46.8456, 40.7580,  
69.6884

■ 23.4441, 10.7818,  
65.1358

■ 52.8287, 49.7484,  
71.1084

■ 22.9504, 10.4144,  
65.0909

■ 59.5844, 60.1344,  
72.7570

■ 67.1431, 71.9747,  
74.6440

■ 75.5334, 85.3248,  
76.7786

■ 81.5077, 93.6869,  
78.0778

■ 84.0298, 94.9871,  
78.1958

# Harmonies

## Analogous

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



24.9287, 21.5057, 92.5015



33.1933, 21.5057, 66.6915



38.5402, 21.5057, 34.9025

# Triad

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



33.1933, 21.5057, 66.6915



24.1335, 21.5057, 1.6317



9.2476, 21.5057, 37.6008

# Complementary

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



33.1933, 21.5057, 66.6915



36.4303, 54.6260, 18.9806

# 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.



9.1368, 21.5057, 14.7746



33.1933, 21.5057, 66.6915



16.5262, 21.5057, 1.7249

# Square

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



33.1933, 21.5057, 66.6915



32.4862, 21.5057, 4.1453



11.4609, 21.5057, 4.6284



11.8150, 21.5057, 69.7021



# Rectangle

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



33.1933, 21.5057, 66.6915



39.0357, 21.5057, 18.9836



11.4609, 21.5057, 4.6284



8.9492, 21.5057, 28.4897

# Sweetspot

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



33.1942, 21.5066, 66.6920



77.3466, 72.6086, 104.5460



25.8310, 25.3349, 67.8190



16.1558, 14.9356, 22.2813



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.



33.1942, 21.5066, 66.6920



43.2556, 24.6484, 97.0855



42.2171, 26.3877, 56.7395



12.5085, 12.4036, 15.6724



13.8458, 6.2903, 38.9375



0.9233, 0.4249, 2.3527



# Inverse Universe

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



36.3833, 24.0542, 26.0188



49.1637, 29.2090, 28.9207



31.5900, 52.0384, 22.9238



12.6022, 12.4924, 13.8455



17.5833, 8.9696, 5.1097

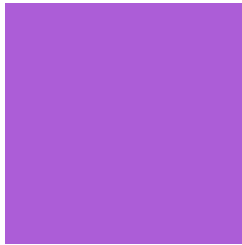


1.0992, 0.5565, 0.5119



# Previews

## White Background



This preview shows how the XYZ color 33.1933, 21.5057, 66.6915 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

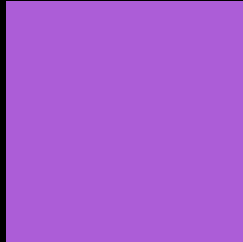
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 33.1933, 21.5057, 66.6915 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

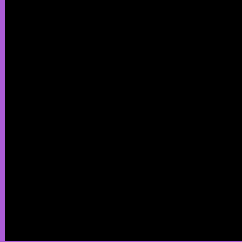
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**XYZ 33.1933, 21.5057, 66.6915**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.1933, 21.5057, 66.6915.



This preview shows how white text looks on a background with the XYZ color 33.1933, 21.5057,



# 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

33.1933, 21.5057, 66.6915

### Protanopia

25.6458, 21.9989, 90.0833

### Deuteranopia

22.4599, 21.9168, 62.7211



## Tritanopia

24.2277, 21.4980, 22.6113

# Trichromacy



## Original Color

33.1933, 21.5057, 66.6915



## Protanomaly

26.1561, 20.5177, 81.1790



## Deuteranomaly

24.8133, 20.7046, 64.3166



## Tritanomaly

26.6384, 20.9803, 34.9934

# Monochromacy



## Original Color

33.1933, 21.5057, 66.6915



## Achromatopsia

21.5731, 22.6966, 24.7166



## Achromatomaly

24.7369, 21.4422, 37.0174

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.1933, 21.5057, 66.6915 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, 93, 215)` looks like.

```
.text, #text, p{  
    color:rgb(172, 93, 215)  
}
```

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, 93, 215) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 93, 215) }
```

## Border

The CSS property to change the border of an element to XYZ 33.1933, 21.5057, 66.6915 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, 93, 215) }
```



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

```
.border{ border-color:rgb(172, 93, 215) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 93, 215)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 93, 215); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 93, 215);  
box-shadow:4px 4px 4px 4px rgb(172, 93,  
215) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.1933, 21.5057, 66.6915 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 93, 215) }
```

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

```
.background{ background-color: rgb(172, 93,  
215) }
```

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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