

# Converting Colors

XYZ(22.2018, 14.1700, 52.0170)

Have a look what the booklet for  
XYZ(22.2018, 14.1700, 52.0170)  
contains.

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# Color

**XYZ(22.2018, 14.1700,  
52.0170)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	874CC1
RGB	135, 76, 193
RGB Percent	53%, 30%, 76%
CMY	0.4706, 0.7020, 0.2431
CMYK	0.30, 0.61, 0.00, 0.24
HSL	270°, 49%, 53%
HSV	270°, 61%, 76%
XYZ	22.2018, 14.1700, 52.0170
YIQ	106.9790, -2.3930, 48.8950

# Conversions

## Conversions Part 2

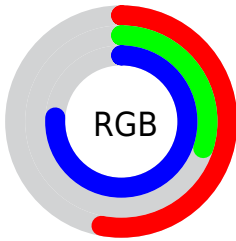
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 76, 193
Decimal	8867009
CIE <sub>Lab</sub>	44.48, 47.26, -52.08
CIE <sub>LCh</sub>	44, 70.326, 312.222
Yxy	14.1700, 0.2512, 0.1603
Android (android.graphics.Color)	4287057089 (0xFF874CC1)
YUV	106.9790, 42.4084, 24.5744
Hunter-Lab	37.6431, 39.4036, -55.5796

# Details

The XYZ color **22.2018, 14.1700, 52.0170** is a dark color, and the websafe version is hex **9966CC**. The color can be described as middle muted purple. A complement of this color would be **30.2059, 43.7302, 13.6865**, and the grayscale version is **13.8566, 14.5782, 15.8757**.

A 20% lighter version of the original color is **46.4603, 33.4168, 94.4438**, and **8.3161, 4.2648, 24.8110** is the 20% darker color. If you saturate the color by 10%, you get **19.5953, 11.1400, 51.5698**, and if you desaturate by 10%, it is **25.3466, 18.0699, 52.6043**.

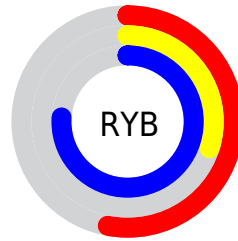
# Distribution



Red (53%)

Green (30%)

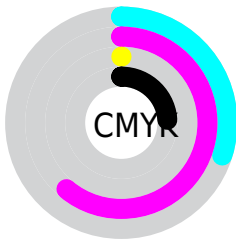
Blue (76%)



Red (53%)

Yellow (30%)

Blue (76%)

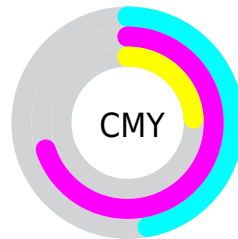


Cyan (30%)

Magenta (61%)

Yellow (0%)

Black (24%)



Cyan (47%)

Magenta (70%)

Yellow (24%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 22.2018, 14.1700, 52.0170 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 22.2018, 14.1700, 52.0170 by changing the saturation by 10% instead.



■ 22.2018, 14.1700,  
52.0170

■ 22.2018, 14.1700,  
52.0170

256.2109,  
218.2859, 411.4611

■ 14.1227, 8.2390,  
36.6363

■ 46.5557, 33.3904,  
94.5831

■ 8.2883, 4.2483,  
24.6324

■ 63.5612, 47.4485,  
122.6057

■ 4.3333, 1.8134,  
15.5869

■ 84.2728, 64.9845,  
155.6792

■ 1.8924, 0.4955,  
9.0811

■ 109.0560, 86.3827,  
194.2223

■ 0.5724, 0.0000,  
4.6966

■ 138.2760,  
112.0276, 238.6535

■ 0.0000, 0.0000,  
2.0148

172.2983,

■ 0.0000, 0.0000,

142.3035, 289.3913

0.5643

211.4881,  
177.5947, 346.8543

■ 0.0000, 0.0000,  
0.0000

■ 22.2018, 14.1700,  
52.0170

■ 22.2018, 14.1700,  
52.0170

■ 19.5953, 11.1400,  
51.5698

■ 25.3466, 18.0699,  
52.6043

■ 17.4848, 8.9025,  
51.2492

■ 29.0637, 22.9046,  
53.3416

■ 15.8234, 7.3689,  
51.0407

■ 33.3862, 28.7344,  
54.2390

■ 14.5906, 6.4098,  
50.9205

■ 38.3437, 35.6141,  
55.3056

■ 43.9641, 43.5942,  
56.5497

■ 50.2731, 52.7221,  
57.9791

■ 57.2952, 63.0423,  
59.6009

■ 65.0536, 74.5967,  
61.4223

■ 73.5704, 87.4254,  
63.4496

# Harmonies

## Analogous

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



15.9102, 14.1700, 70.4710



22.2018, 14.1700, 52.0170



26.7433, 14.1700, 27.0581

# Triad

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



22.2018, 14.1700, 52.0170



17.0781, 14.1700, 0.6792



5.3768, 14.1700, 23.0265

# Complementary

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



22.2018, 14.1700, 52.0170



30.2059, 43.7302, 13.6865

# 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.



5.5264, 14.1700, 7.7251



22.2018, 14.1700, 52.0170



11.2897, 14.1700, 0.5559

# Square

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



22.2018, 14.1700, 52.0170



23.2607, 14.1700, 2.5217



7.3907, 14.1700, 1.9347



6.9012, 14.1700, 47.3532



# Rectangle

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



22.2018, 14.1700, 52.0170



27.5609, 14.1700, 14.2495



7.3907, 14.1700, 1.9347



5.2483, 14.1700, 16.6712

# Sweetspot

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



22.2024, 14.1705, 52.0173



70.9202, 66.9482, 99.5447



21.2008, 22.5758, 53.6925



14.6122, 13.5148, 21.2238



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



22.2024, 14.1705, 52.0173



33.6664, 18.3857, 92.1347



34.2027, 20.3569, 52.5789



10.0015, 9.9919, 12.6863



9.7968, 4.3109, 33.8723



0.5028, 0.2272, 1.4672



# Inverse Universe

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



28.8800, 18.2278, 24.5500



47.5871, 26.8416, 34.9770



23.3552, 40.1985, 13.3659



10.2767, 10.1593, 11.5476



16.0620, 8.1146, 8.2387



0.7288, 0.3645, 0.5393



# Previews

## White Background



This preview shows how the XYZ color 22.2018, 14.1700, 52.0170 looks on a white 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



# Black Background



This preview shows how the XYZ color 22.2018, 14.1700, 52.0170 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

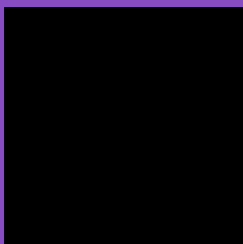
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 22.2018, 14.1700, 52.0170**

## **Background**



This preview shows how black text looks on a background with the XYZ color 22.2018, 14.1700, 52.0170.



This preview shows how white text looks on a background with the XYZ color 22.2018, 14.1700,



# 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

22.2018, 14.1700, 52.0170

### Protanopia

17.1460, 14.4606, 66.8532

### Deuteranopia

14.8230, 14.4103, 49.0139



## Tritanopia

14.8717, 14.1190, 16.1288

# Trichromacy



## Original Color

22.2018, 14.1700, 52.0170



## Protanomaly

16.5661, 13.0357, 61.3175



## Deuteranomaly

15.8224, 13.3051, 49.8783



## Tritanomaly

16.8587, 13.7062, 26.1831

# Monochromacy



## Original Color

22.2018, 14.1700, 52.0170



## Achromatopsia

13.9749, 14.7027, 16.0113



## Achromatomaly

16.1064, 13.9826, 25.8948

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 22.2018, 14.1700, 52.0170 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(135, 76, 193)` looks like.

```
.text, #text, p{  
    color:rgb(135, 76, 193)  
}
```

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(135, 76, 193) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 76, 193) }
```

## Border

The CSS property to change the border of an element to XYZ 22.2018, 14.1700, 52.0170 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(135, 76, 193) }
```



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

```
.border{ border-color:rgb(135, 76, 193) }
```

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

Here you see how a box with a 4 pixel rgb(135, 76, 193) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 76, 193); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 76, 193);  
box-shadow:4px 4px 4px 4px rgb(135, 76,  
193) }
```

# Background

The CSS property to change the background color of an element to XYZ 22.2018, 14.1700, 52.0170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 76, 193) }
```

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

```
.background{ background-color: rgb(135, 76,  
193) }
```

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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