

# Converting Colors

XYZ(21.7002, 9.3751, 82.8705)

Have a look what the booklet for  
XYZ(21.7002, 9.3751, 82.8705)  
contains.

<b>XYZ(21.7916, 9.4171, 83.1072)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(21.7916, 9.4171,  
83.1072)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6B00F0
RGB	107, 0, 240
RGB Percent	42%, 0%, 94%
CMY	0.5804, 1.0000, 0.0588
CMYK	0.55, 1.00, 0.00, 0.06
HSL	267°, 100%, 47%
HSV	267°, 100%, 94%
XYZ	21.7916, 9.4171, 83.1072
YIQ	59.3530, -13.2680, 97.3240

# Conversions

## Conversions Part 2

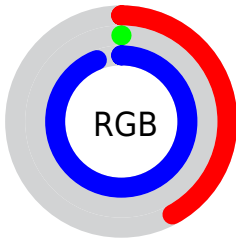
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	107, 0, 240
Decimal	7012592
CIE <sub>Lab</sub>	36.78, 78.54, -91.79
CIE <sub>LCh</sub>	37, 120.804, 310.554
Yxy	9.4171, 0.1906, 0.0824
Android (android.graphics.Color)	4285202672 (0xFF6B00F0)
YUV	59.3530, 89.0590, 41.7864
Hunter-Lab	30.6873, 73.0533, -139.0878

# Details

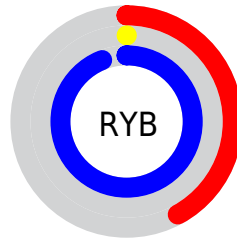
The XYZ color **21.7916, 9.4171, 83.1072** is a dark color, and the websafe version is hex **6600FF**. The color can be described as dark saturated purple. A complement of this color would be **40.8321, 67.3064, 10.8394**, and the grayscale version is **4.0893, 4.3023, 4.6852**.

A 20% lighter version of the original color is **37.7876, 21.4394, 96.7543**, and **8.6747, 3.4966, 44.4737** is the 20% darker color. If you saturate the color by 10%, you get **21.7924, 9.4175, 83.1075**, and if you desaturate by 10%, it is **23.8431, 10.9595, 83.2971**.

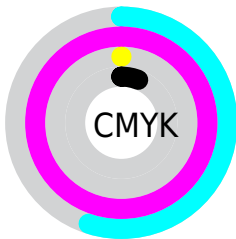
# Distribution



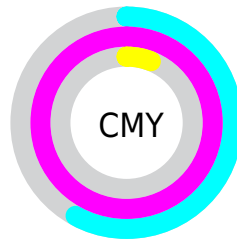
- Red (42%)
- Green (0%)
- Blue (94%)



- Red (42%)
- Yellow (0%)
- Blue (94%)



- Cyan (55%)
- Magenta (100%)
- Yellow (0%)
- Black (6%)




- Cyan (58%)
- Magenta (100%)
- Yellow (6%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.7916, 9.4171, 83.1072 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 21.7916, 9.4171, 83.1072 by changing the saturation by 10% instead.




 21.7916, 9.4171,  
83.1072


 21.7916, 9.4171,  
83.1072


254.1089,  
186.4597, 525.3241


 13.8196, 5.0142,  
61.7375


 45.8827, 24.6932,  
139.5762

 8.0762, 2.2556,  
44.3862


 62.7326, 36.3352,  
175.5125

 4.1959, 0.7501,  
30.6348


 83.2724, 51.1591,  
217.1414

 1.8136, 0.0000,  
20.0648

 107.8676, 69.5491,  
264.8815

 0.5258, 0.0000,  
12.2576

 136.8835, 91.8899,  
319.1512

 0.0000, 0.0000,  
6.7947


 170.6854,


 0.0000, 0.0000,


118.5656, 380.3692


3.2575

 209.6388,  
149.9607, 448.9540


 0.0000, 0.0000,  
1.2276


 0.0000, 0.0000,  
0.0013


 21.7916, 9.4171,  
83.1072


 21.7916, 9.4171,  
83.1072

 21.7924, 9.4175,  
83.1075

 23.8431, 10.9595,  
83.2971

 26.5539, 13.4412,  
83.6332

 30.0611, 17.1203,  
84.1585

 34.4492, 22.1517,  
84.8984

■ 39.7899, 28.6660,  
85.8743

■ 46.1468, 36.7778,  
87.1050

■ 53.5776, 46.5901,  
88.6073

■ 62.1352, 58.1970,  
90.3966

■ 71.8685, 71.6855,  
92.4872

# Harmonies

## Analogous

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



11.8249, 9.4171, 125.5999



21.7916, 9.4171, 83.1072



30.2546, 9.4171, 30.7441

# Triad

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



21.7916, 9.4171, 83.1072



14.5867, 9.4171, 0.0000



0.9771, 9.4171, 19.7006

# Complementary

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



21.7916, 9.4171, 83.1072



40.8321, 67.3064, 10.8394

# 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.



1.1137, 9.4171, 1.7816



21.7916, 9.4171, 83.1072



6.5845, 9.4171, 0.0000

# Square

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



21.7916, 9.4171, 83.1072



24.7448, 9.4171, 0.0000



2.5121, 9.4171, 0.0000



1.8998, 9.4171, 66.3205



# Rectangle

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



21.7916, 9.4171, 83.1072



32.1223, 9.4171, 9.8636



2.5121, 9.4171, 0.0000



0.9232, 9.4171, 10.6538

# Sweetspot

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



21.7924, 9.4175, 83.1075



61.3971, 53.3478, 101.6689



24.5324, 23.8997, 85.7585



12.3375, 10.3484, 21.5971



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.



21.7924, 9.4175, 83.1075



24.9497, 10.7769, 95.3729



46.4688, 22.1386, 84.2624



15.5663, 15.5737, 19.9072



12.0773, 5.2315, 45.5011



1.1175, 0.4933, 3.7905



# Inverse Universe

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



40.1685, 20.2186, 23.9735



46.0705, 23.1922, 27.3671



31.3739, 62.4306, 10.3967



16.1394, 15.9055, 18.2906



22.0569, 11.0952, 13.4820



1.8850, 0.9430, 1.3850



# Previews

## White Background



This preview shows how the XYZ color 21.7916, 9.4171, 83.1072 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

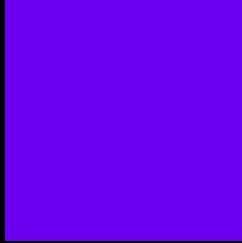
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



This preview shows how the XYZ color 21.7916, 9.4171, 83.1072 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

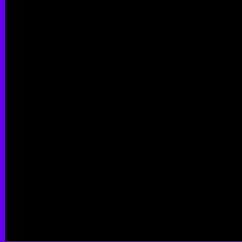
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 21.7916, 9.4171, 83.1072**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.7916, 9.4171, 83.1072.



This preview shows how white text looks on a background with the XYZ color 21.7916, 9.4171,



# 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

21.7916, 9.4171, 83.1072

### Protanopia

11.2844, 9.7114, 43.3992

### Deuteranopia

9.4086, 9.7492, 31.0917



## Tritanopia

8.0082, 9.6678, 13.7559

# Trichromacy



## Original Color

21.7916, 9.4171, 83.1072

## Protanomaly

12.6985, 7.2867, 55.9955

## Deuteranomaly

11.0015, 6.9181, 46.1029

## Tritanomaly

10.2120, 6.9314, 30.5054

# Monochromacy



## Original Color

21.7916, 9.4171, 83.1072

## Achromatopsia

4.1570, 4.3735, 4.7627

## Achromatomaly

7.3753, 4.4034, 19.8633

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.7916, 9.4171, 83.1072 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(107, 0, 240)` looks like.

```
.text, #text, p{  
  color:rgb(107, 0, 240)  
}
```

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(107, 0, 240) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 0, 240) }
```

## Border

The CSS property to change the border of an element to XYZ 21.7916, 9.4171, 83.1072 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(107, 0, 240) }
```



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

```
.border{ border-color:rgb(107, 0, 240) }
```

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

Here you see how a box with a 4 pixel rgb(107, 0, 240) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 0, 240); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 0, 240);  
box-shadow:4px 4px 4px 4px rgb(107, 0,  
240) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.7916, 9.4171, 83.1072 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 0, 240) }
```

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

```
.background{ background-color: rgb(107, 0,  
240) }
```

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**