

# Converting Colors

XYZ(16.9418, 7.1952, 70.3087)

Have a look what the booklet for  
XYZ(16.9418, 7.1952, 70.3087)  
contains.

<b>XYZ(16.9754, 7.2125, 70.3095)</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(16.9754, 7.2125,  
70.3095)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	5400DF
RGB	84, 0, 223
RGB Percent	33%, 0%, 87%
CMY	0.6706, 1.0000, 0.1255
CMYK	0.62, 1.00, 0.00, 0.13
HSL	263°, 100%, 44%
HSV	263°, 100%, 87%
XYZ	16.9754, 7.2125, 70.3095
YIQ	50.5380, -21.5190, 87.1610

# Conversions

## Conversions Part 2

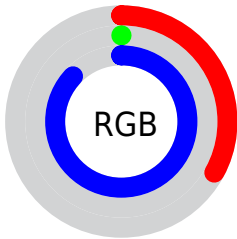
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	84, 0, 223
Decimal	5505247
CIE <sub>Lab</sub>	32.29, 73.45, -89.62
CIE <sub>LCh</sub>	32, 115.870, 309.338
Yxy	7.2125, 0.1796, 0.0763
Android (android.graphics.Color)	4283695327 (0xFF5400DF)
YUV	50.5380, 85.0238, 29.3462
Hunter-Lab	26.8561, 65.8294, -136.4225

# Details

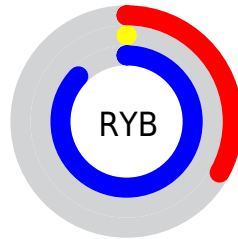
The XYZ color **16.9754, 7.2125, 70.3095** is a dark color, and the websafe version is hex **3300CC**. The color can be described as dark washed blue. A complement of this color would be **37.0341, 58.2639, 9.2942**, and the grayscale version is **3.0014, 3.1577, 3.4387**.

A 20% lighter version of the original color is **33.1950, 18.5644, 96.4415**, and **6.8829, 2.7532, 36.2450** is the 20% darker color. If you saturate the color by 10%, you get **16.9761, 7.2129, 70.3098**, and if you desaturate by 10%, it is **18.6389, 8.5046, 70.4715**.

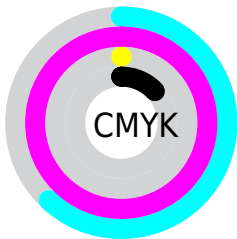
# Distribution



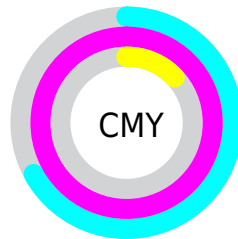
- Red (33%)
- Green (0%)
- Blue (87%)



- Red (33%)
- Yellow (0%)
- Blue (87%)



- Cyan (62%)
- Magenta (100%)
- Yellow (0%)
- Black (13%)



- Cyan (67%)
- Magenta (100%)
- Yellow (13%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 16.9754, 7.2125, 70.3095 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 16.9754, 7.2125, 70.3095 by changing the saturation by 10% instead.



■ 16.9754, 7.2125,  
70.3095

■ 16.9754, 7.2125,  
70.3095

228.1896,  
169.4179, 480.4544

■ 10.3121, 3.5953,  
51.3005

■ 37.8274, 20.3994,  
121.3353

■ 5.6703, 1.4499,  
36.0695

■ 52.7469, 30.7380,  
154.1891

■ 2.6844, 0.2531,  
24.1977

■ 71.1491, 44.0859,  
192.4951

■ 0.9891, 0.0000,  
15.2668

■ 93.3995, 60.8274,  
236.6716

■ 0.0000, 0.0000,  
8.8581

■ 119.8634, 81.3469,  
287.1373


■ 0.0000, 0.0000,  
4.5532


■ 150.9061,

■ 0.0000, 0.0000,

106.0290, 344.3106

1.9335


 186.8931,  
135.2578, 408.6101

 0.0000, 0.0000,  
0.5139


 0.0000, 0.0000,  
0.0000


 16.9754, 7.2125,  
70.3095


 16.9754, 7.2125,  
70.3095

 16.9761, 7.2129,  
70.3098

 18.6389, 8.5046,  
70.4715

 20.8999, 10.6061,  
70.7579

 23.8813, 13.7434,  
71.2064

 27.6571, 18.0470,  
71.8380

■ 32.2907, 23.6275,  
72.6710

■ 37.8385, 30.5822,  
73.7210

■ 44.3517, 38.9987,  
75.0022

■ 51.8773, 48.9571,  
76.5277

■ 60.4593, 60.5315,  
78.3095

# Harmonies

## Analogous

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



8.8858, 7.2125, 104.9875



16.9754, 7.2125, 70.3095



24.1177, 7.2125, 26.0363

# Triad

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



16.9754, 7.2125, 70.3095



11.7410, 7.2125, 0.0000



0.6061, 7.2125, 14.4653

# Complementary

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



16.9754, 7.2125, 70.3095



37.0341, 58.2639, 9.2942

# 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.



0.7506, 7.2125, 1.0349



16.9754, 7.2125, 70.3095



5.1603, 7.2125, 0.0000

# Square

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



16.9754, 7.2125, 70.3095



20.0707, 7.2125, 0.0000



1.8576, 7.2125, 0.0000



1.2657, 7.2125, 52.3691



# Rectangle

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



16.9754, 7.2125, 70.3095



25.8598, 7.2125, 8.2384



1.8576, 7.2125, 0.0000



0.5688, 7.2125, 7.4801

# Sweetspot

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



16.9761, 7.2129, 70.3098



59.8913, 52.5715, 101.5984



22.8787, 24.4464, 73.3251



11.9844, 10.1663, 21.5806



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.



16.9761, 7.2129, 70.3098



22.8804, 9.7102, 95.2761



35.3798, 16.7003, 71.1711



13.4375, 13.4936, 17.2840



10.0974, 4.3007, 41.3463



0.7970, 0.3482, 2.8704



# Inverse Universe

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



35.0912, 17.5519, 25.9618



47.4926, 23.7611, 34.8560



26.9154, 53.0476, 8.8206



14.0647, 13.8435, 16.1107



20.6896, 10.3428, 15.5630

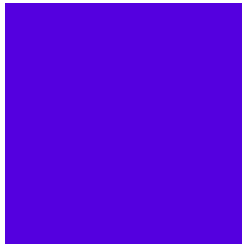


1.4771, 0.7341, 1.3055



# Previews

## White Background



This preview shows how the XYZ color 16.9754, 7.2125, 70.3095 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

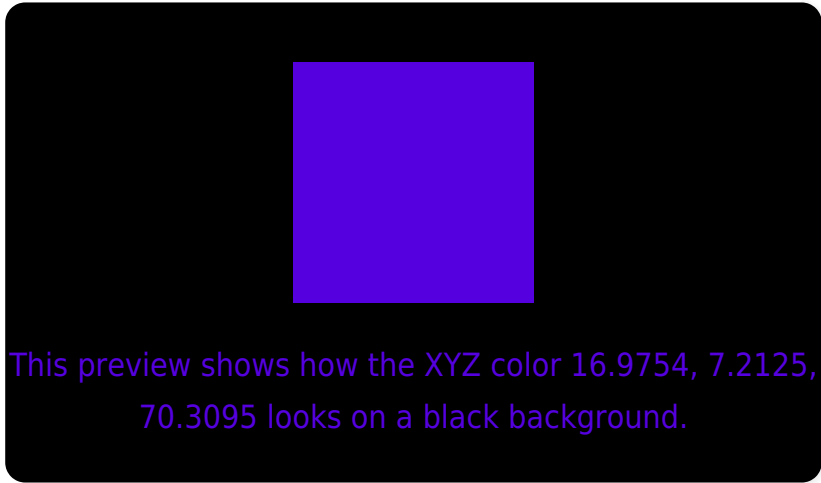
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass



# Black Background



## 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 16.9754, 7.2125, 70.3095**

## **Background**



This preview shows how black text looks on a background with the XYZ color 16.9754, 7.2125, 70.3095.



This preview shows how white text looks on a background with the XYZ color 16.9754, 7.2125,



# 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

16.9754, 7.2125, 70.3095

### Protanopia

8.6019, 7.4665, 32.8861

### Deuteranopia

7.1717, 7.4586, 23.6159



## Tritanopia

5.3036, 7.4459, 11.5136

# Trichromacy



## Original Color

16.9754, 7.2125, 70.3095

## Protanomaly

9.9625, 5.7414, 44.2992

## Deuteranomaly

8.6318, 5.4121, 36.6661

## Tritanomaly

6.6649, 4.9171, 25.4088

# Monochromacy



## Original Color

16.9754, 7.2125, 70.3095

## Achromatopsia

3.1466, 3.3105, 3.6051

## Achromatomaly

5.6037, 3.3047, 16.2621

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 16.9754, 7.2125, 70.3095 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(84, 0, 223)` looks like.

```
.text, #text, p{  
    color:rgb(84, 0, 223)  
}
```

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(84, 0, 223) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(84, 0, 223) }
```

## Border

The CSS property to change the border of an element to XYZ 16.9754, 7.2125, 70.3095 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(84, 0, 223) }
```



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

```
.border{ border-color:rgb(84, 0, 223) }
```

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

Here you see how a box with a 4 pixel `rgb(84, 0, 223)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(84, 0, 223); -webkit-box-  
shadow:4px 4px 4px 4px rgb(84, 0, 223);  
box-shadow:4px 4px 4px 4px rgb(84, 0, 223)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 16.9754, 7.2125, 70.3095 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(84, 0, 223) }
```

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

```
.background{ background-color: rgb(84, 0,  
223) }
```

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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