

# Converting Colors

XYZ(35.7076, 16.3228, 95.8764)

Have a look what the booklet for  
XYZ(35.7076, 16.3228, 95.8764)  
contains.

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# Color

**XYZ(35.7292, 16.3340,  
95.8774)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AF00FF
RGB	175, 0, 255
RGB Percent	69%, 0%, 100%
CMY	0.3137, 1.0000, 0.0000
CMYK	0.31, 1.00, 0.00, 0.00
HSL	281°, 100%, 50%
HSV	281°, 100%, 100%
XYZ	35.7292, 16.3340, 95.8774
YIQ	81.3950, 22.4450, 116.4050

# Conversions

## Conversions Part 2

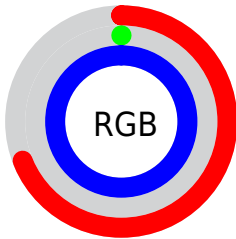
<b>Format</b>	<b>Color</b>
<b>RYB</b>	175, 0, 255
Decimal	11469055
CIELab	47.41, 87.54, -82.37
CIElCh	47, 120.198, 316.742
Yxy	16.3340, 0.2415, 0.1104
Android (android.graphics.Color)	4289659135 (0xFFAF00FF)
YUV	81.3950, 85.5873, 82.0916
Hunter-Lab	40.4153, 87.0761, -112.3630

# Details

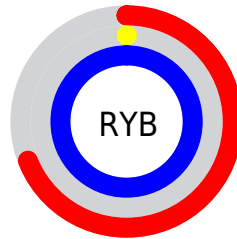
The XYZ color **35.7292, 16.3340, 95.8774** is a dark color, and the websafe version is hex **9900FF**. The color can be described as middle saturated purple. A complement of this color would be **39.0686, 73.2256, 12.0750**, and the grayscale version is **7.7334, 8.1361, 8.8602**.

A 20% lighter version of the original color is **56.7161, 32.7067, 97.9315**, and **16.8881, 7.5419, 53.3890** is the 20% darker color. If you saturate the color by 10%, you get **35.7295, 16.3341, 95.8774**, and if you desaturate by 10%, it is **37.9378, 18.0048, 96.0835**.

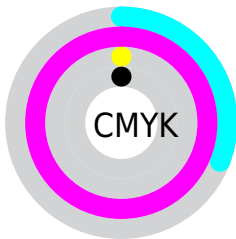
# Distribution



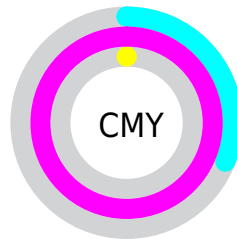
- Red (69%)
- Green (0%)
- Blue (100%)



- Red (69%)
- Yellow (0%)
- Blue (100%)



- Cyan (31%)
- Magenta (100%)
- Yellow (0%)
- Black (0%)




- Cyan (31%)
- Magenta (100%)
- Yellow (0%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 35.7292, 16.3340, 95.8774 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 35.7292, 16.3340, 95.8774 by changing the saturation by 10% instead.




 35.7292, 16.3340,  
95.8774


 35.7292, 16.3340,  
95.8774


319.2273,  
231.3046, 568.0260

 24.3943, 9.7608,  
72.2645


 67.9405, 37.1771,  
157.4822


 15.7527, 5.2407,  
52.8866


 89.5476, 52.2158,  
196.3112


 9.4390, 2.3891,  
37.3252


 115.3094, 70.8451,  
241.0494

 5.0880, 0.8203,  
25.1616

 145.5913, 93.4494,  
292.1152

 2.3343, 0.0000,  
15.9774

 180.7587,  
120.4131, 349.9272

 0.8121, 0.0000,  
9.3540

 221.1770,

 0.0000, 0.0000,

152.1206, 414.9040

4.8728

267.2114,  
188.9563, 487.4641

■ 0.0000, 0.0000,  
2.1154

■ 0.0000, 0.0000,  
0.6249

■ 35.7292, 16.3340,  
95.8774

■ 35.7292, 16.3340,  
95.8774

■ 35.7295, 16.3341,  
95.8774

■ 37.9378, 18.0048,  
96.0835

■ 40.7208, 20.6650,  
96.4503

■ 44.2235, 24.6015,  
97.0255

■ 48.5350, 29.9899,  
97.8383

■ 53.7302, 36.9775,  
98.9132

■ 59.8746, 45.6931,  
100.2717

■ 67.0272, 56.2522,  
101.9328

■ 75.2419, 68.7601,  
103.9141

■ 84.5683, 83.3141,  
106.2317

# Harmonies

## Analogous

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



22.2041, 16.3340, 153.8550



35.7292, 16.3340, 95.8774



45.2129, 16.3340, 34.9154

# Triad

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



35.7292, 16.3340, 95.8774



20.7121, 16.3340, 0.0000



3.0114, 16.3340, 40.5988

# Complementary

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



35.7292, 16.3340, 95.8774



39.0686, 73.2256, 12.0750

# 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.



2.9047, 16.3340, 7.4388



35.7292, 16.3340, 95.8774



10.3407, 16.3340, 0.0000

# Square

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



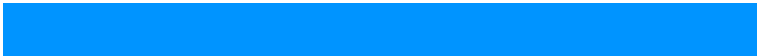
35.7292, 16.3340, 95.8774



34.2164, 16.3340, 0.0000



4.8756, 16.3340, 0.0000



5.2938, 16.3340, 103.8403



# Rectangle

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



35.7292, 16.3340, 95.8774



46.0424, 16.3340, 11.7492



4.8756, 16.3340, 0.0000



2.7744, 16.3340, 25.5983

# Sweetspot

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



35.7301, 16.3345, 95.8774



67.0252, 56.2491, 101.9323



20.9743, 13.0685, 96.0247



13.6736, 11.0372, 21.6597



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.



35.7301, 16.3345, 95.8774



35.7295, 16.3341, 95.8774



52.6562, 25.8266, 62.0464



18.2058, 17.9978, 22.7643



18.8305, 8.6180, 50.1055



1.9463, 0.8973, 4.8839



# Inverse Universe

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



42.6882, 21.8394, 9.5556



42.6879, 21.8392, 9.5546



36.2683, 71.7233, 14.5960



18.2441, 18.0809, 19.9025



22.3644, 11.4350, 5.3033



2.2244, 1.1321, 0.7631



# Previews

## White Background



This preview shows how the XYZ color 35.7292, 16.3340, 95.8774 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

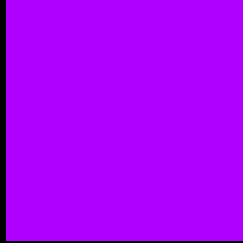
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 35.7292, 16.3340, 95.8774 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

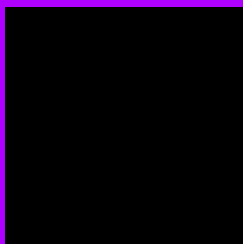
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 35.7292, 16.3340, 95.8774**

## **Background**



This preview shows how black text looks on a background with the XYZ color 35.7292, 16.3340, 95.8774.



This preview shows how white text looks on a background with the XYZ color 35.7292, 16.3340,

95.8774.

# 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

35.7292, 16.3340, 95.8774

### Protanopia

19.9997, 16.9214, 77.8134

### Deuteranopia

16.7866, 16.8927, 57.0195



## Tritanopia

19.6054, 16.5654, 16.0740

# Trichromacy



## Original Color

35.7292, 16.3340, 95.8774

## Protanomaly

20.0327, 11.7616, 83.6524

## Deuteranomaly

17.4814, 11.1549, 68.9419

## Tritanomaly

22.3670, 13.5091, 35.1469

# Monochromacy



## Original Color

35.7292, 16.3340, 95.8774

## Achromatopsia

7.8210, 8.2283, 8.9606

## Achromatomaly

13.3323, 8.1144, 27.2491

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 35.7292, 16.3340, 95.8774 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, 0, 255)` looks like.

```
.text, #text, p{  
    color:rgb(175, 0, 255)  
}
```

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, 0, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 0, 255) }
```

## Border

The CSS property to change the border of an element to XYZ 35.7292, 16.3340, 95.8774 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, 0, 255) }
```



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

```
.border{ border-color:rgb(175, 0, 255) }
```

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

Here you see how a box with a 4 pixel rgb(175, 0, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 0, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 0, 255);  
box-shadow:4px 4px 4px 4px rgb(175, 0,  
255) }
```

# Background

The CSS property to change the background color of an element to XYZ 35.7292, 16.3340, 95.8774 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 0, 255) }
```

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

```
.background{ background-color: rgb(175, 0,  
255) }
```

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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