

# Converting Colors

XYZ(24.2253, 11.2510, 75.4731)

Have a look what the booklet for  
XYZ(24.2253, 11.2510, 75.4731)  
contains.

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# Color

**XYZ(24.2240, 11.2360,  
75.7549)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8515E6
RGB	133, 21, 230
RGB Percent	52%, 8%, 90%
CMY	0.4784, 0.9177, 0.0980
CMYK	0.42, 0.91, 0.00, 0.10
HSL	272°, 83%, 49%
HSV	272°, 91%, 90%
XYZ	24.2240, 11.2360, 75.7549
YIQ	78.3140, -0.3370, 88.7430

# Conversions

## Conversions Part 2

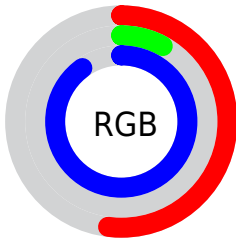
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 21, 230
Decimal	8721894
CIE <sub>Lab</sub>	39.98, 75.74, -80.71
CIE <sub>LCh</sub>	40, 110.682, 313.179
Yxy	11.2360, 0.2178, 0.1010
Android (android.graphics.Color)	4286911974 (0xFF8515E6)
YUV	78.3140, 74.7812, 47.9596
Hunter-Lab	33.5201, 70.3363, -110.5302

# Details

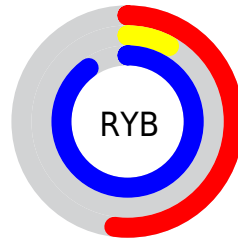
The XYZ color **24.2240, 11.2360, 75.7549** is a dark color, and the websafe version is hex **9933FF**. The color can be described as dark washed purple. A complement of this color would be **35.9022, 60.4989, 10.4945**, and the grayscale version is **7.1640, 7.5371, 8.2079**.

A 20% lighter version of the original color is **43.7879, 25.6688, 97.2544**, and **9.9971, 4.2823, 39.8348** is the 20% darker color. If you saturate the color by 10%, you get **22.4888, 9.9434, 75.5971**, and if you desaturate by 10%, it is **26.6291, 13.4146, 76.0489**.

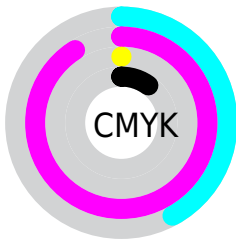
# Distribution



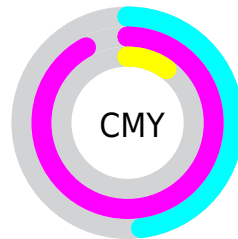
- Red (52%)
- Green (8%)
- Blue (90%)



- Red (52%)
- Yellow (8%)
- Blue (90%)



- Cyan (42%)
- Magenta (91%)
- Yellow (0%)
- Black (10%)




- Cyan (48%)
- Magenta (92%)
- Yellow (10%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.2240, 11.2360, 75.7549 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 24.2240, 11.2360, 75.7549 by changing the saturation by 10% instead.





 24.2240, 11.2360,  
75.7549


 24.2240, 11.2360,  
75.7549


266.3705,  
199.2796, 499.8327


 15.6255, 6.2258,  
55.7261


 49.8475, 28.0958,  
129.1373

 9.3487, 2.9829,  
39.5808


 67.6032, 40.7141,  
163.3280

 5.0282, 1.1228,  
26.9006


 89.1421, 56.6373,  
203.0764

 2.2988, 0.0000,  
17.2668

 114.8294, 76.2497,  
248.8010

 0.7940, 0.0000,  
10.2609

 145.0305, 99.9357,  
300.9204

 0.0000, 0.0000,  
5.4644

 180.1109,

 0.0000, 0.0000,

128.0798, 359.8531

2.4588

220.4357,  
161.0663, 426.0177

■ 0.0000, 0.0000,  
0.8182

■ 0.0000, 0.0000,  
0.0000

■ 24.2240, 11.2360,  
75.7549

■ 24.2240, 11.2360,  
75.7549

■ 22.4888, 9.9434,  
75.5971

■ 26.6291, 13.4146,  
76.0489

■ 29.6835, 16.6317,  
76.5089

■ 33.4614, 21.0270,  
77.1582

■ 38.0245, 26.7178,  
78.0161

43.4274, 33.8064,  
79.0996

49.7191, 42.3849,  
80.4238

56.9445, 52.5371,  
82.0025

65.1454, 64.3405,  
83.8486

74.3608, 77.8674,  
85.9738

# Harmonies

## Analogous

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



14.3931, 11.2360, 116.0168



24.2240, 11.2360, 75.7549



31.8300, 11.2360, 28.9047

# Triad

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



24.2240, 11.2360, 75.7549



15.5223, 11.2360, 0.0000



1.8094, 11.2360, 24.5589

# Complementary

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



24.2240, 11.2360, 75.7549



35.9022, 60.4989, 10.4945

# 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.



1.8844, 11.2360, 3.6487



24.2240, 11.2360, 75.7549



7.6668, 11.2360, 0.0000

# Square

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



24.2240, 11.2360, 75.7549



25.3822, 11.2360, 0.0000



3.4490, 11.2360, 0.0000



3.1474, 11.2360, 69.5537



# Rectangle

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



24.2240, 11.2360, 75.7549



33.1021, 11.2360, 10.0451



3.4490, 11.2360, 0.0000



1.7000, 11.2360, 14.7200

# Sweetspot

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



24.2247, 11.2363, 75.7552



66.0867, 58.0966, 102.3384



21.1333, 18.9549, 77.4080



13.5007, 11.5370, 21.7652



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.



24.2247, 11.2363, 75.7552



28.3107, 12.5096, 95.5302



46.2251, 22.6887, 71.7788



14.3168, 14.2656, 18.1433



12.8745, 5.7029, 42.8054



1.0584, 0.4766, 3.1682



# Inverse Universe

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



36.1708, 18.6670, 18.8335



44.5303, 22.5761, 19.2566



28.8152, 56.8369, 10.5482



14.6539, 14.4787, 16.3778



20.0302, 10.1463, 9.0537

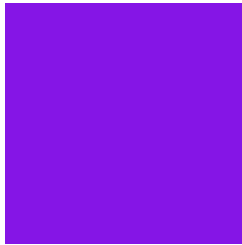


1.5267, 0.7684, 0.9140



# Previews

## White Background



This preview shows how the XYZ color 24.2240, 11.2360, 75.7549 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

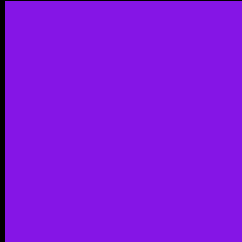
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 24.2240, 11.2360, 75.7549 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

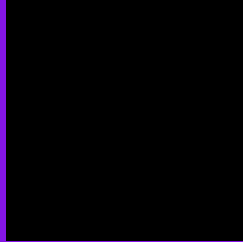
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 24.2240, 11.2360, 75.7549**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.2240, 11.2360, 75.7549.



This preview shows how white text looks on a background with the XYZ color 24.2240, 11.2360,



# 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

24.2240, 11.2360, 75.7549

### Protanopia

13.4528, 11.5045, 51.9636

### Deuteranopia

11.1576, 11.3026, 37.6699



## Tritanopia

11.6546, 11.3071, 13.1235

# Trichromacy



## Original Color

24.2240, 11.2360, 75.7549



## Protanomaly

14.3077, 8.9810, 59.3719



## Deuteranomaly

12.5324, 8.5587, 49.1356



## Tritanomaly

14.2068, 9.6166, 28.3015

# Monochromacy



## Original Color

24.2240, 11.2360, 75.7549



## Achromatopsia

7.2414, 7.6185, 8.2966



## Achromatomaly

10.7338, 7.2164, 23.0175

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.2240, 11.2360, 75.7549 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(133, 21, 230)` looks like.

```
.text, #text, p{  
    color:rgb(133, 21, 230)  
}
```

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(133, 21, 230) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 21, 230) }
```

## Border

The CSS property to change the border of an element to XYZ 24.2240, 11.2360, 75.7549 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(133, 21, 230) }
```



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

```
.border{ border-color:rgb(133, 21, 230) }
```

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

Here you see how a box with a 4 pixel rgb(133, 21, 230) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 21, 230); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 21, 230);  
box-shadow:4px 4px 4px 4px rgb(133, 21,  
230) }
```

# Background

The CSS property to change the background color of an element to XYZ 24.2240, 11.2360, 75.7549 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 21, 230) }
```

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

```
.background{ background-color: rgb(133, 21,  
230) }
```

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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