

# Converting Colors

XYZ(23.8801, 11.6190, 32.3640)

Have a look what the booklet for  
XYZ(23.8801, 11.6190, 32.3640)  
contains.

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# Color

**XYZ(23.9052, 11.6304,  
32.4374)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B0009C
RGB	176, 0, 156
RGB Percent	69%, 0%, 61%
CMY	0.3098, 0.9999, 0.3882
CMYK	0.00, 1.00, 0.11, 0.31
HSL	307°, 100%, 35%
HSV	307°, 100%, 69%
XYZ	23.9052, 11.6304, 32.4374
YIQ	70.4080, 54.8200, 85.8280

# Conversions

## Conversions Part 2

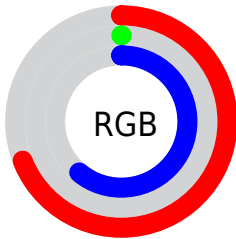
<b>Format</b>	<b>Color</b>
<b>RYB</b>	176, 0, 156
Decimal	11534492
CIELab	40.62, 71.55, -35.95
CIElCh	41, 80.074, 333.323
Yxy	11.6304, 0.3517, 0.1711
Android (android.graphics.Color)	4289724572 (0xFFB0009C)
YUV	70.4080, 42.1969, 92.6042
Hunter-Lab	34.1034, 65.4410, -32.5213

# Details

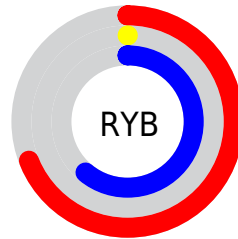
The XYZ color **23.9052, 11.6304, 32.4374** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **15.6522, 31.1016, 5.8412**, and the grayscale version is **5.8171, 6.1200, 6.6647**.

A 20% lighter version of the original color is **49.1891, 28.7060, 64.5763**, and **10.1064, 4.9214, 13.5140** is the 20% darker color. If you saturate the color by 10%, you get **23.9052, 11.6304, 32.4363**, and if you desaturate by 10%, it is **24.2865, 12.1193, 33.4072**.

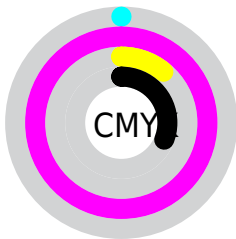
# Distribution



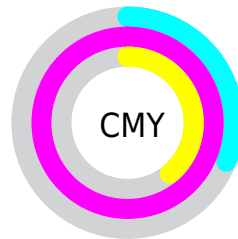
- Red (69%)
- Green (0%)
- Blue (61%)



- Red (69%)
- Yellow (0%)
- Blue (61%)



- Cyan (0%)
- Magenta (100%)
- Yellow (11%)
- Black (31%)




- Cyan (31%)
- Magenta (100%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 23.9052, 11.6304, 32.4374 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 23.9052, 11.6304, 32.4374 by changing the saturation by 10% instead.





 23.9052, 11.6304,  
32.4374

 23.9052, 11.6304,  
32.4374


264.7902,  
201.9428, 327.6609


 15.3877, 6.4925,  
21.4282


 49.3313, 28.8201,  
64.6020

 9.1800, 3.1468,  
13.2431


 66.9705, 41.6408,  
86.5946


 4.9168, 1.2089,  
7.4635


 88.3810, 57.7912,  
113.0853

 2.2328, 0.0689,  
3.6708

 113.9282, 77.6557,  
144.4928

 0.7599, 0.0000,  
1.4465

 143.9773,  
101.6187, 181.2355

 0.0000, 0.0000,  
0.1776

 178.8938,

 0.0000, 0.0000,

130.0647, 223.7321

0.0000

219.0430,  
163.3779, 272.4010

■ 23.9052, 11.6304,  
32.4374

■ 23.9052, 11.6304,  
32.4374

■ 23.9052, 11.6304,  
32.4363

■ 24.2865, 12.1193,  
33.4072

■ 24.8575, 12.9835,  
34.4540

■ 25.6914, 14.3690,  
35.6023

■ 26.8223, 16.3441,  
36.8636

■ 28.2794, 18.9667,  
38.2477

■ 30.0880, 22.2881,  
39.7630

■ 32.2713, 26.3540,  
41.4173

■ 34.8502, 31.2066,  
43.2177

■ 37.8442, 36.8848,  
45.1708

# Harmonies

## Analogous

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



18.1736, 11.6304, 60.6226



23.9052, 11.6304, 32.4374



25.8625, 11.6304, 10.9418

# Triad

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



23.9052, 11.6304, 32.4374



10.4356, 11.6304, 0.0000



4.2275, 11.6304, 38.6537

# Complementary

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



23.9052, 11.6304, 32.4374



15.6522, 31.1016, 5.8412

# 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.



3.3616, 11.6304, 14.5570



23.9052, 11.6304, 32.4374



6.0897, 11.6304, 0.2189

# Square

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



23.9052, 11.6304, 32.4374



16.6940, 11.6304, 0.0000



3.9038, 11.6304, 3.1930



6.8537, 11.6304, 65.8992



# Rectangle

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



23.9052, 11.6304, 32.4374



24.3581, 11.6304, 3.8992



3.9038, 11.6304, 3.1930



3.7709, 11.6304, 29.4403

# Sweetspot

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



23.9056, 11.6310, 32.4376



58.2980, 47.3645, 74.9487



8.0792, 3.2601, 41.2780



12.2664, 9.5780, 15.9698



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832



# Same Dimension

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



23.9056, 11.6310, 32.4376



43.3021, 21.0721, 58.5456



19.0235, 9.6781, 6.7286



8.8076, 8.6298, 10.4853



17.5532, 8.5388, 23.8709



0.5640, 0.2734, 0.8129



# Inverse Universe

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



23.9056, 11.6310, 32.4376



43.3021, 21.0721, 58.5456



18.1070, 32.0835, 18.7679



8.8076, 8.6298, 10.4853



17.5532, 8.5388, 23.8709



0.5640, 0.2734, 0.8129



# Previews

## White Background



This preview shows how the XYZ color 23.9052, 11.6304, 32.4374 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

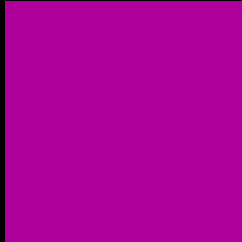
Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 23.9052, 11.6304, 32.4374 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

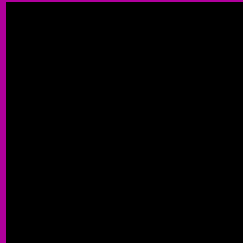
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 23.9052, 11.6304, 32.4374**

## **Background**



This preview shows how black text looks on a background with the XYZ color 23.9052, 11.6304, 32.4374.



This preview shows how white text looks on a background with the XYZ color 23.9052, 11.6304,



# 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

23.9052, 11.6304, 32.4374

### Protanopia

14.6348, 12.4015, 56.8807

### Deuteranopia

12.6166, 12.3885, 28.9204



## Tritanopia

18.7713, 12.0440, 6.3364

# Trichromacy



## Original Color

23.9052, 11.6304, 32.4374



## Protanomaly

12.4872, 7.8245, 46.7511



## Deuteranomaly

14.0377, 9.1580, 29.8820



## Tritanomaly

19.7247, 10.9908, 12.6371

# Monochromacy



## Original Color

23.9052, 11.6304, 32.4374



## Achromatopsia

5.8214, 6.1246, 6.6697



## Achromatomaly

9.5940, 6.0676, 12.9774

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 23.9052, 11.6304, 32.4374 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(176, 0, 156)` looks like.

```
.text, #text, p{  
    color:rgb(176, 0, 156)  
}
```

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(176, 0, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 0, 156) }
```

## Border

The CSS property to change the border of an element to XYZ 23.9052, 11.6304, 32.4374 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(176, 0, 156) }
```



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

```
.border{ border-color:rgb(176, 0, 156) }
```

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

Here you see how a box with a 4 pixel rgb(176, 0, 156) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 0, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 0, 156);  
box-shadow:4px 4px 4px 4px rgb(176, 0,  
156) }
```

# Background

The CSS property to change the background color of an element to XYZ 23.9052, 11.6304, 32.4374 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(176, 0, 156) }
```

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

```
.background{ background-color: rgb(176, 0,  
156) }
```

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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