

# Converting Colors

XYZ(24.9724, 12.0573, 38.0569)

Have a look what the booklet for  
XYZ(24.9724, 12.0573, 38.0569)  
contains.

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# Color

**XYZ(24.9724, 12.0573,  
38.0569)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	B000A8
RGB	176, 0, 168
RGB Percent	69%, 0%, 66%
CMY	0.3098, 0.9999, 0.3412
CMYK	0.00, 1.00, 0.05, 0.31
HSL	303°, 100%, 35%
HSV	303°, 100%, 69%
XYZ	24.9724, 12.0573, 38.0569
YIQ	71.7760, 50.9680, 89.5600

# Conversions

## Conversions Part 2

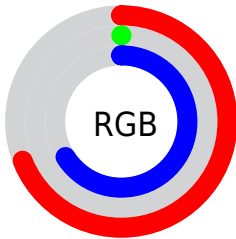
<b>Format</b>	<b>Color</b>
<b>RYB</b>	176, 0, 168
Decimal	11534504
CIELab	41.31, 73.23, -42.08
CIELCh	41, 84.456, 330.119
Yxy	12.0573, 0.3326, 0.1606
Android (android.graphics.Color)	4289724584 (0xFFB000A8)
YUV	71.7760, 47.4384, 91.4044
Hunter-Lab	34.7236, 67.6066, -40.6750

# Details

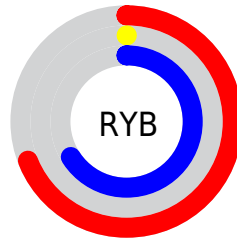
The XYZ color **24.9724, 12.0573, 38.0569** is a dark color, and the websafe version is hex **990099**. A complement of this color would be **15.5698, 31.0688, 5.4067**, and the grayscale version is **6.0389, 6.3534, 6.9188**.

A 20% lighter version of the original color is **50.9640, 29.5410, 73.5369**, and **10.7023, 5.1597, 16.6515** is the 20% darker color. If you saturate the color by 10%, you get **24.9725, 12.0573, 38.0565**, and if you desaturate by 10%, it is **25.2577, 12.5078, 38.5210**.

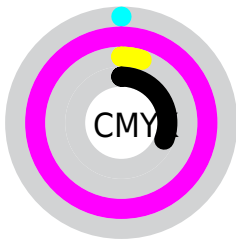
# Distribution



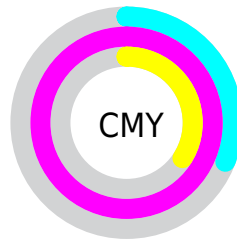
- Red (69%)
- Green (0%)
- Blue (66%)



- Red (69%)
- Yellow (0%)
- Blue (66%)



- Cyan (0%)
- Magenta (100%)
- Yellow (5%)
- Black (31%)




- Cyan (31%)
- Magenta (100%)
- Yellow (34%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 24.9724, 12.0573, 38.0569 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 24.9724, 12.0573, 38.0569 by changing the saturation by 10% instead.




 24.9724, 12.0573,  
38.0569


 24.9724, 12.0573,  
38.0569


270.0506,  
204.7843, 353.1695


 16.1851, 6.7827,  
25.7247


 51.0557, 29.5994,  
73.3997


 9.7469, 3.3266,  
16.3939


 69.0823, 42.6357,  
97.2474


 5.2925, 1.3045,  
9.6459


 90.9195, 59.0281,  
125.7707

 2.4564, 0.1447,  
5.0623

 116.9326, 79.1609,  
159.3881

 0.8733, 0.0000,  
2.2245

 147.4869,  
103.4185, 198.5181

 0.0000, 0.0000,  
0.6884

 182.9478,

 0.0000, 0.0000,

132.1854, 243.5793

0.0000

223.6806,  
165.8458, 294.9903

■ 24.9724, 12.0573,  
38.0569

■ 24.9724, 12.0573,  
38.0569

■ 24.9725, 12.0573,  
38.0565

■ 25.2577, 12.5078,  
38.5210

■ 25.7303, 13.3326,  
39.0498

■ 26.4635, 14.6778,  
39.6676

■ 27.4913, 16.6116,  
40.3860

■ 28.8428, 19.1921,  
41.2146

■ 30.5436, 22.4702,  
42.1618

■ 32.6166, 26.4921,  
43.2354

■ 35.0828, 31.2996,  
44.4424

■ 37.9617, 36.9318,  
45.7892

# Harmonies

## Analogous

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



18.4285, 12.0573, 69.0850



24.9724, 12.0573, 38.0569



27.6921, 12.0573, 13.0588

# Triad

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



24.9724, 12.0573, 38.0569



11.4358, 12.0573, 0.0000



4.0029, 12.0573, 38.3028

# Complementary

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



24.9724, 12.0573, 38.0569



15.5698, 31.0688, 5.4067

# 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.



3.2662, 12.0573, 13.1982



24.9724, 12.0573, 38.0569



6.5157, 12.0573, 0.0000

# Square

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



24.9724, 12.0573, 38.0569



18.3707, 12.0573, 0.0000



3.9908, 12.0573, 2.4847



6.5447, 12.0573, 69.2960



# Rectangle

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



24.9724, 12.0573, 38.0569



26.4206, 12.0573, 4.6196



3.9908, 12.0573, 2.4847



3.5868, 12.0573, 28.4462

# Sweetspot

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



24.9729, 12.0579, 38.0571



58.9350, 47.6193, 78.3031



7.9105, 3.1731, 41.2704



12.4224, 9.6404, 16.7910



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.



24.9729, 12.0579, 38.0571



45.2678, 21.8583, 68.8966



19.4335, 9.8421, 8.8872



8.8330, 8.6399, 10.6191



18.3286, 8.8490, 27.9541



0.5818, 0.2805, 0.9063



# Inverse Universe

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



24.9729, 12.0579, 38.0571



45.2678, 21.8583, 68.8966



17.5407, 31.8572, 15.7855



8.8330, 8.6399, 10.6191



18.3286, 8.8490, 27.9541



0.5818, 0.2805, 0.9063



# Previews

## White Background



This preview shows how the XYZ color 24.9724, 12.0573, 38.0569 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



## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

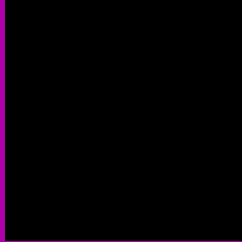
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**XYZ 24.9724, 12.0573, 38.0569**

## **Background**



This preview shows how black text looks on a background with the XYZ color 24.9724, 12.0573, 38.0569.



This preview shows how white text looks on a background with the XYZ color 24.9724, 12.0573,



# 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

24.9724, 12.0573, 38.0569

### Deuteranopia

13.1126, 12.8119, 34.1296

### Tritanopia

18.7796, 12.4456, 7.2068

# Trichromacy



## Original Color

24.9724, 12.0573, 38.0569

## Deuteranomaly

14.4184, 9.4012, 35.2371

## Tritanomaly

20.0070, 11.2426, 14.7512

# Monochromacy



## Original Color

24.9724, 12.0573, 38.0569

## Achromatopsia

6.1596, 6.4803, 7.0571

## Achromatomaly

10.0612, 6.3305, 14.6015

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 24.9724, 12.0573, 38.0569 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, 168)` looks like.

```
.text, #text, p{  
    color:rgb(176, 0, 168)  
}
```

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, 168) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(176, 0, 168) }
```

## Border

The CSS property to change the border of an element to XYZ 24.9724, 12.0573, 38.0569 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, 168) }
```

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

```
.border{ border-color:rgb(176, 0, 168) }
```

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, 168) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(176, 0, 168); -webkit-box-  
shadow:4px 4px 4px 4px rgb(176, 0, 168);  
box-shadow:4px 4px 4px 4px rgb(176, 0,  
168) }
```



# Background

The CSS property to change the background color of an element to XYZ 24.9724, 12.0573, 38.0569 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, 168) }
```

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

```
.background{ background-color: rgb(176, 0,  
168) }
```

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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