

# Converting Colors

XYZ(12.3582, 6.3520, 1.4319)

Have a look what the booklet for  
XYZ(12.3582, 6.3520, 1.4319)  
contains.

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# Color

**XYZ(12.3776, 6.3618,  
1.4397)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	940018
RGB	148, 0, 24
RGB Percent	58%, 0%, 9%
CMY	0.4196, 0.9999, 0.9059
CMYK	0.00, 1.00, 0.84, 0.42
HSL	350°, 100%, 29%
HSV	350°, 100%, 58%
XYZ	12.3776, 6.3618, 1.4397
YIQ	46.9880, 80.5040, 38.8400

# Conversions

## Conversions Part 2

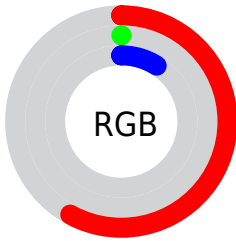
<b>Format</b>	<b>Color</b>
<b>RYB</b>	148, 0, 24
Decimal	9699352
CIELab	30.31, 53.84, 32.55
CIELCh	30, 62.909, 31.156
Yxy	6.3618, 0.6134, 0.3153
Android (android.graphics.Color)	4287889432 (0xFF940018)
YUV	46.9880, -11.3331, 88.5875
Hunter-Lab	25.2226, 43.4565, 14.2716

# Details

The XYZ color **12.3776, 6.3618, 1.4397** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **14.2293, 22.6355, 22.6940**, and the grayscale version is **2.7073, 2.8483, 3.1018**.

A 20% lighter version of the original color is **29.9391, 18.7537, 7.5107**, and **4.0245, 2.0747, 0.1883** is the 20% darker color. If you saturate the color by 10%, you get **12.3774, 6.3617, 1.4389**, and if you desaturate by 10%, it is **12.7055, 6.7622, 2.3370**.

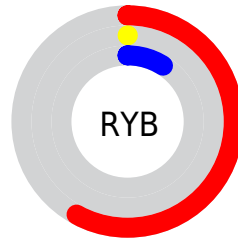
# Distribution



Red (58%)

Green (0%)

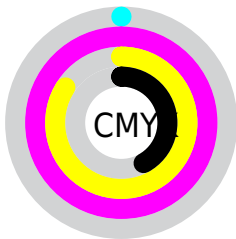
Blue (9%)



Red (58%)

Yellow (0%)

Blue (9%)

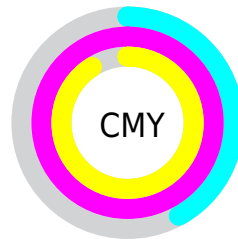


Cyan (0%)

Magenta (100%)

Yellow (84%)

Black (42%)



Cyan (42%)

Magenta (100%)


Yellow (91%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3776, 6.3618, 1.4397 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 12.3776, 6.3618, 1.4397 by changing the saturation by 10% instead.





 12.3776, 6.3618,  
1.4397


 12.3776, 6.3618,  
1.4397


200.6086,  
162.2502, 112.9602


 7.0754, 3.0663,  
0.1724


 29.7919, 18.6773,  
7.4430


 3.5561, 1.1664,  
0.0000

 42.6347, 28.4661,  
13.2132


 1.4542, 0.0340,  
0.0000

 58.7218, 41.1881,  
21.3870

 0.2943, 0.0000,  
0.0000


 78.4185, 57.2277,  
32.3830

 0.0000, 0.0000,  
0.0000

 102.0902, 76.9693,  
46.6198

 130.1022,

100.7974, 64.5159


 162.8199,  
129.0962, 86.4898


 12.3776, 6.3618,  
1.4397


 12.3776, 6.3618,  
1.4397


 12.3774, 6.3617,  
1.4389

 12.7055, 6.7622,  
2.3370

 13.2176, 7.4253,  
3.6205

 13.9768, 8.4677,  
5.3415

 15.0107, 9.9354,  
7.5357

 16.3427, 11.8678,  
10.2350

■ 17.9939, 14.3000,  
13.4685

■ 19.9834, 17.2633,  
17.2631

■ 22.3289, 20.7868,  
21.6439

■ 25.0466, 24.8973,  
26.6343

# Harmonies

## Analogous

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



13.7532, 6.3618, 6.6019



12.3776, 6.3618, 1.4397



9.2455, 6.3618, 0.0000

# Triad

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



12.3776, 6.3618, 1.4397



2.2941, 6.3618, 1.6499



6.1628, 6.3618, 39.5802

# Complementary

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



12.3776, 6.3618, 1.4397



14.2293, 22.6355, 22.6940

# 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.



3.6866, 6.3618, 33.4456



12.3776, 6.3618, 1.4397



1.9426, 6.3618, 7.2625

# Square

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



12.3776, 6.3618, 1.4397



3.5449, 6.3618, 0.0000



2.3550, 6.3618, 19.3208



9.5132, 6.3618, 32.5109



# Rectangle

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



12.3776, 6.3618, 1.4397



6.9690, 6.3618, 0.0000



2.3550, 6.3618, 19.3208



5.2096, 6.3618, 38.9718

# Sweetspot

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



12.3777, 6.3622, 1.4398



35.0277, 30.1129, 30.0216



13.5620, 6.3743, 28.5324



7.6759, 6.3962, 6.2461



71.1368, 74.8414, 81.5023



11.3376, 11.9280, 12.9896



# Same Dimension

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



12.3777, 6.3622, 1.4398



21.7960, 11.2077, 2.3104



13.3256, 8.5215, 0.9430



5.8369, 5.8298, 6.2471



10.5795, 5.4369, 1.2669



0.1367, 0.0694, 0.0537



# Inverse Universe

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



12.3777, 6.3622, 1.4398



21.7960, 11.2077, 2.3104



9.7764, 11.0000, 29.6248



5.8369, 5.8298, 6.2471



10.5795, 5.4369, 1.2669



0.1367, 0.0694, 0.0537



# Previews

## White Background



This preview shows how the XYZ color 12.3776, 6.3618, 1.4397 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

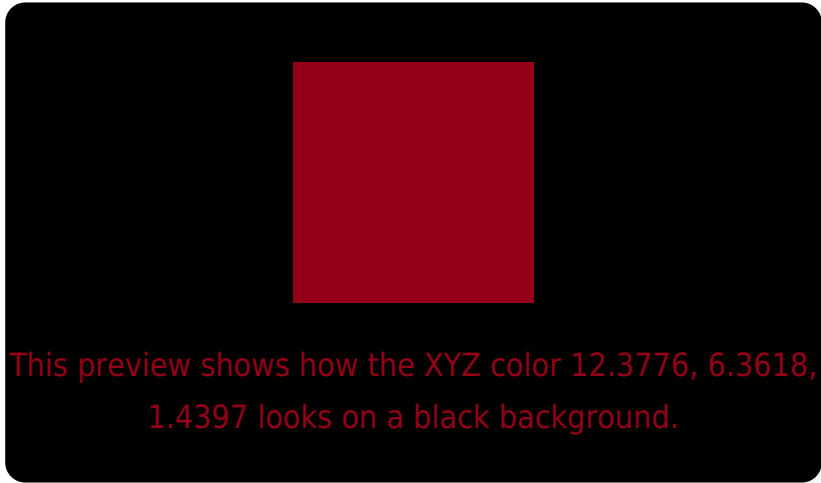
Any Text WCAG AA ✓ Pass

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 12.3776, 6.3618, 1.4397**

## **Background**



This preview shows how black text looks on a background with the XYZ color 12.3776, 6.3618, 1.4397.



This preview shows how white text looks on a background with the XYZ color 12.3776, 6.3618,



# 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

12.3776, 6.3618, 1.4397

### Protanopia

6.4496, 7.0176, 2.9341

### Deuteranopia

7.0054, 6.9525, 1.1450



## Tritanopia

12.1765, 6.4909, 0.6111

# Trichromacy



## Original Color

12.3776, 6.3618, 1.4397

## Protanomaly

7.4091, 5.3552, 2.1565

## Deuteranomaly

7.9505, 5.4832, 1.0201

## Tritanomaly

12.1688, 6.3964, 0.8517

# Monochromacy



## Original Color

12.3776, 6.3618, 1.4397

## Achromatopsia

2.7019, 2.8426, 3.0956

## Achromatomaly

4.4866, 2.9598, 2.2543

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 12.3776, 6.3618, 1.4397 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(148, 0, 24)` looks like.

```
.text, #text, p{  
    color:rgb(148, 0, 24)  
}
```

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(148, 0, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(148, 0, 24) }
```

## Border

The CSS property to change the border of an element to XYZ 12.3776, 6.3618, 1.4397 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(148, 0, 24) }
```



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

```
.border{ border-color:rgb(148, 0, 24) }
```

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

Here you see how a box with a 4 pixel rgb(148, 0, 24) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(148, 0, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(148, 0, 24);  
box-shadow:4px 4px 4px 4px rgb(148, 0, 24)  
}
```

# Background

The CSS property to change the background color of an element to XYZ 12.3776, 6.3618, 1.4397 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(148, 0, 24) }
```

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

```
.background{ background-color: rgb(148, 0,  
24) }
```

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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