

Converting Colors

XYZ(12.3479, 7.1762, 40.7787)

Have a look what the booklet for
XYZ(12.3479, 7.1762, 40.7787)
contains.

XYZ(12.3479, 7.1762, 40.7787)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(12.3479, 7.1762,
40.7787)**

Conversions

Conversions Part 1

Format	Color
Hex	5332AE
RGB	83, 50, 174
RGB Percent	33%, 20%, 68%
CMY	0.6745, 0.8039, 0.3176
CMYK	0.52, 0.71, 0.00, 0.32
HSL	256°, 55%, 44%
HSV	256°, 71%, 68%
XYZ	12.3479, 7.1762, 40.7787
YIQ	74.0030, -20.1360, 45.5600

Conversions

Conversions Part 2

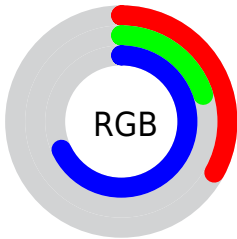
Format	Color
R_{YB}	83, 50, 174
Decimal	5452462
CIE _{Lab}	32.20, 45.45, -61.05
CIE _{LCh}	32, 76.115, 306.669
Yxy	7.1762, 0.2048, 0.1190
Android (android.graphics.Color)	4283642542 (0xFF5332AE)
YUV	74.0030, 49.2985, 7.8904
Hunter-Lab	26.7884, 35.3983, -71.5023

Details

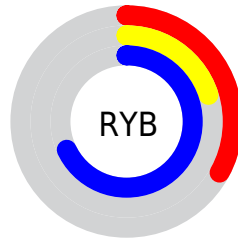
The XYZ color **12.3479, 7.1762, 40.7787** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **26.6955, 36.1648, 8.5911**, and the grayscale version is **6.4277, 6.7625, 7.3643**.

A 20% lighter version of the original color is **29.8701, 20.3559, 77.9561**, and **3.5153, 1.4206, 17.8582** is the 20% darker color. If you saturate the color by 10%, you get **10.7157, 5.4325, 40.5283**, and if you desaturate by 10%, it is **14.4711, 9.5925, 41.1334**.

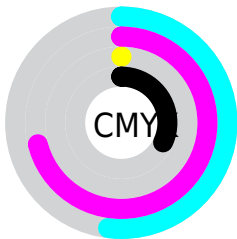
Distribution



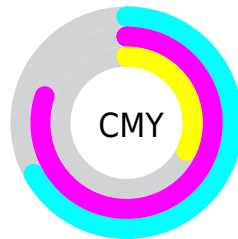
- Red (33%)
- Green (20%)
- Blue (68%)



- Red (33%)
- Yellow (20%)
- Blue (68%)



- Cyan (52%)
- Magenta (71%)
- Yellow (0%)
- Black (32%)



- Cyan (67%)
- Magenta (80%)
- Yellow (32%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.3479, 7.1762, 40.7787 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 12.3479, 7.1762, 40.7787 by changing the saturation by 10% instead.

12.3479, 7.1762,
40.7787

12.3479, 7.1762,
40.7787

200.4183,
169.1199, 365.0441

7.0550, 3.5725,
27.8278

29.7386, 20.3268,
77.5979

3.5431, 1.4374,
17.9580

42.5670, 30.6425,
102.3032

1.4471, 0.2441,
10.7507

58.6379, 43.9644,
131.7638

0.2894, 0.0000,
5.7874

78.3168, 60.6768,
166.3981

0.0000, 0.0000,
2.6496

101.9689, 81.1642,
206.6248

0.0000, 0.0000,
0.9179

129.9596,

0.0000, 0.0000,

105.8109, 252.8623

0.0000

162.6543,
135.0013, 305.5292

■ 12.3479, 7.1762,
40.7787

■ 12.3479, 7.1762,
40.7787

■ 10.7157, 5.4325,
40.5283

■ 14.4711, 9.5925,
41.1334

■ 9.5278, 4.2870,
40.3698

■ 17.1233, 12.7437,
41.6018

■ 8.7809, 3.6442,
40.2851

■ 20.3398, 16.6855,
42.1931

■ 24.1526, 21.4677,
42.9152

■ 28.5910, 27.1363,
43.7755

■ 33.6824, 33.7335,
44.7805

■ 39.4524, 41.2992,
45.9367

■ 45.9254, 49.8707,
47.2500

■ 53.1244, 59.4833,
48.7260

Harmonies

Analogous

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



7.7288, 7.1762, 54.4118



12.3479, 7.1762, 40.7787



16.2785, 7.1762, 19.7724

Triad

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



12.3479, 7.1762, 40.7787



10.2410, 7.1762, 0.0000



1.7560, 7.1762, 10.5812

Complementary

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



12.3479, 7.1762, 40.7787



26.6955, 36.1648, 8.5911

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.



1.9935, 7.1762, 2.0225



12.3479, 7.1762, 40.7787



5.9868, 7.1762, 0.0000

Square

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



12.3479, 7.1762, 40.7787



14.7729, 7.1762, 0.7041



3.2522, 7.1762, 0.0000



2.4019, 7.1762, 28.9236

Rectangle

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



12.3479, 7.1762, 40.7787



17.3742, 7.1762, 9.1286



3.2522, 7.1762, 0.0000



1.7406, 7.1762, 6.6314

Sweetspot

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



12.3483, 7.1764, 40.7789



51.7688, 49.1034, 79.3863



18.7779, 23.3791, 43.5675



10.9981, 10.2614, 17.5453



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.



12.3483, 7.1764, 40.7789



18.0001, 8.4362, 73.3165



20.1083, 11.1768, 41.1421



7.7714, 7.8565, 10.0595



6.4182, 2.6686, 29.2213



0.2306, 0.1011, 0.8153

Inverse Universe

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



23.4035, 13.2028, 26.5122



39.9110, 20.4387, 42.3988



19.1051, 32.2518, 8.2358



8.2447, 8.1111, 9.5994



15.4972, 7.6614, 15.5296



0.4521, 0.2215, 0.5428

Previews

White Background



This preview shows how the XYZ color 12.3479, 7.1762, 40.7787 looks on a white background.

Color Contrast Check

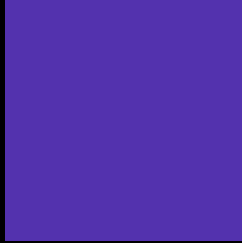
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the XYZ color 12.3479, 7.1762, 40.7787 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

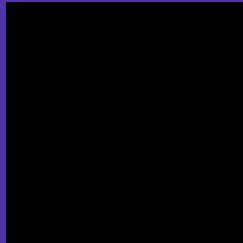
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.3479, 7.1762, 40.7787

Background



This preview shows how black text looks on a background with the XYZ color 12.3479, 7.1762, 40.7787.



This preview shows how white text looks on a background with the XYZ color 12.3479, 7.1762,

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

12.3479, 7.1762, 40.7787

Protanopia

8.2989, 7.1316, 31.9495

Deuteranopia

6.9580, 7.1422, 23.2022



Tritanopia

6.1239, 7.2214, 9.8752

Trichromacy



Original Color

12.3479, 7.1762, 40.7787

Protanomaly

8.9473, 6.6652, 34.9974

Deuteranomaly

7.9478, 6.5484, 28.8620

Tritanomaly

7.5781, 6.6881, 18.0311

Monochromacy



Original Color

12.3479, 7.1762, 40.7787

Achromatopsia

6.5089, 6.8478, 7.4573

Achromatomaly

7.7653, 6.4842, 15.5941

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.3479, 7.1762, 40.7787 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(83, 50, 174)` looks like.

```
.text, #text, p{  
    color:rgb(83, 50, 174)  
}
```

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(83, 50, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 50, 174) }
```

Border

The CSS property to change the border of an element to XYZ 12.3479, 7.1762, 40.7787 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(83, 50, 174) }
```


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

```
.border{ border-color:rgb(83, 50, 174) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 50, 174)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 50, 174); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 50, 174);  
box-shadow:4px 4px 4px 4px rgb(83, 50,  
174) }
```

Background

The CSS property to change the background color of an element to XYZ 12.3479, 7.1762, 40.7787 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 50, 174) }
```

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

```
.background{ background-color: rgb(83, 50,  
174) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor