

Converting Colors

XYZ(12.7668, 11.7920, 30.5233)

Have a look what the booklet for
XYZ(12.7668, 11.7920, 30.5233)
contains.

XYZ(12.7276, 11.7362, 30.4487)	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(12.7276, 11.7362,
30.4487)**

Conversions

Conversions Part 1

Format	Color
Hex	505D96
RGB	80, 93, 150
RGB Percent	31%, 36%, 59%
CMY	0.6863, 0.6353, 0.4118
CMYK	0.47, 0.38, 0.00, 0.41
HSL	229°, 30%, 45%
HSV	229°, 47%, 59%
XYZ	12.7276, 11.7362, 30.4487
YIQ	95.6110, -26.0450, 14.9710

Conversions

Conversions Part 2

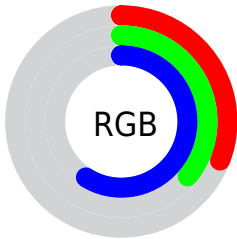
Format	Color
R_{YB}	80, 91, 150
Decimal	5266838
CIE _{Lab}	40.79, 11.00, -32.87
CIE _{LCh}	41, 34.660, 288.508
Y _{xy}	11.7362, 0.2318, 0.2137
Android (android.graphics.Color)	4283456918 (0xFF505D96)
YUV	95.6110, 26.8138, -13.6908
Hunter-Lab	34.2581, 6.3647, -28.7164

Details

The XYZ color **12.7276, 11.7362, 30.4487** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **22.9717, 24.9550, 11.1959**, and the grayscale version is **10.9663, 11.5374, 12.5643**.

A 20% lighter version of the original color is **30.5148, 29.0392, 61.7544**, and **3.6946, 3.1535, 12.2183** is the 20% darker color. If you saturate the color by 10%, you get **10.6119, 9.1792, 30.0669**, and if you desaturate by 10%, it is **15.2983, 14.7823, 30.9014**.

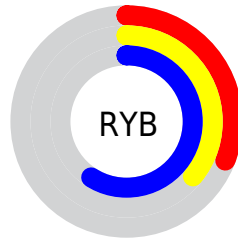
Distribution



Red (31%)

Green (36%)

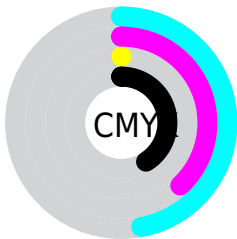
Blue (59%)



Red (31%)

Yellow (36%)

Blue (59%)

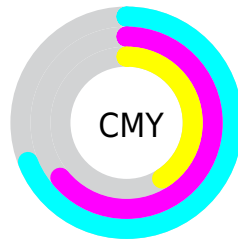


Cyan (47%)

Magenta (38%)

Yellow (0%)

Black (41%)



Cyan (69%)

Magenta (64%)

Yellow (41%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.7276, 11.7362, 30.4487 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 12.7276, 11.7362, 30.4487 by changing the saturation by 10% instead.

■ 12.7276, 11.7362,
30.4487

■ 12.7276, 11.7362,
30.4487

202.8375,
202.6510, 318.2626

■ 7.3169, 6.5643,
19.9245

■ 30.4190, 29.0137,
61.4404

■ 3.7092, 3.1912,
12.1566

■ 43.4305, 41.8882,
82.7450

■ 1.5390, 1.2323,
6.7266

■ 59.7063, 58.0989,
108.4801

■ 0.3521, 0.0879,
3.2159

■ 79.6118, 78.0303,
139.0643

■ 0.0000, 0.0000,
1.2059

■ 103.5123,
102.0669, 174.9161

■ 0.0000, 0.0000,
0.0000

131.7732,

130.5929, 216.4540

164.7598,
163.9928, 264.0967

■ 12.7276, 11.7362,
30.4487

■ 12.7276, 11.7362,
30.4487

■ 10.6119, 9.1792,
30.0669

■ 15.2983, 14.7823,
30.9014

■ 8.9225, 7.0841,
29.7515

■ 18.3474, 18.3403,
31.4275

■ 7.6299, 5.4226,
29.4990

■ 21.8984, 22.4332,
32.0303

■ 6.6997, 4.1629,
29.3048

■ 25.9728, 27.0819,
32.7128

■ 6.0823, 3.2636,
29.1638

■ 30.5909, 32.3064,
33.4779

■ 5.9169, 3.0258,
29.1266

■ 35.7719, 38.1257,
34.3280

■ 41.5339, 44.5578,
35.2659

■ 47.8943, 51.6200,
36.2938

■ 54.8699, 59.3289,
37.4141

Harmonies

Analogous

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



10.2373, 11.7362, 31.2220



12.7276, 11.7362, 30.4487



15.0937, 11.7362, 24.0416

Triad

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



12.7276, 11.7362, 30.4487



14.5976, 11.7362, 5.0712



7.1262, 11.7362, 10.2615

Complementary

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



12.7276, 11.7362, 30.4487



22.9717, 24.9550, 11.1959

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.



7.9689, 11.7362, 5.7322



12.7276, 11.7362, 30.4487



12.1257, 11.7362, 3.5604

Square

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



12.7276, 11.7362, 30.4487



16.2782, 11.7362, 8.9370



9.7174, 11.7362, 3.7469



7.2381, 11.7362, 17.5884

Rectangle

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



12.7276, 11.7362, 30.4487



16.1699, 11.7362, 18.4227



9.7174, 11.7362, 3.7469



7.3015, 11.7362, 8.4242

Sweetspot

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



12.7280, 11.7366, 30.4490



40.2782, 41.4590, 56.8007



18.6589, 25.2961, 27.1921



8.6280, 8.8465, 12.5376



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.



12.7280, 11.7366, 30.4490



18.5814, 16.0204, 53.0342



13.7409, 10.7065, 30.1968



5.5815, 5.7969, 7.2945



4.9257, 2.5463, 24.1629



0.0764, 0.0635, 0.3011

Inverse Universe

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



17.4225, 13.0121, 11.9497



28.0386, 19.0115, 15.6717



21.4079, 27.0593, 11.6845



5.8422, 5.8319, 6.2751



10.6134, 5.4504, 1.4451



0.1381, 0.0700, 0.0606

Previews

White Background



This preview shows how the XYZ color 12.7276, 11.7362, 30.4487 looks on a white background.

Color Contrast Check

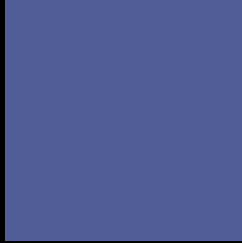
Large Text (above 18pt) WCAG AA ✓ Pass

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 12.7276, 11.7362, 30.4487 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

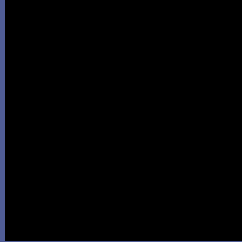
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.7276, 11.7362, 30.4487

Background



This preview shows how black text looks on a background with the XYZ color 12.7276, 11.7362, 30.4487.



This preview shows how white text looks on a background with the XYZ color 12.7276, 11.7362,

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

12.7276, 11.7362, 30.4487

Protanopia

12.4903, 11.7356, 30.8851

Deuteranopia

11.9916, 11.7646, 30.0725



Tritanopia

9.8520, 11.6621, 16.4836

Trichromacy



Original Color

12.7276, 11.7362, 30.4487

Protanomaly

12.6492, 11.8176, 30.8925

Deuteranomaly

12.1895, 11.7321, 30.0558

Tritanomaly

10.7418, 11.5938, 21.0737

Monochromacy



Original Color

12.7276, 11.7362, 30.4487

Achromatopsia

11.1181, 11.6971, 12.7381

Achromatomaly

11.4610, 11.6190, 18.1616

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.7276, 11.7362, 30.4487 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(80, 93, 150)` looks like.

```
.text, #text, p{  
    color:rgb(80, 93, 150)  
}
```

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(80, 93, 150) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(80, 93, 150) }
```

Border

The CSS property to change the border of an element to XYZ 12.7276, 11.7362, 30.4487 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(80, 93, 150) }
```


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

```
.border{ border-color:rgb(80, 93, 150) }
```

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

Here you see how a box with a 4 pixel `rgb(80, 93, 150)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(80, 93, 150); -webkit-box-  
shadow:4px 4px 4px 4px rgb(80, 93, 150);  
box-shadow:4px 4px 4px 4px rgb(80, 93,  
150) }
```

Background

The CSS property to change the background color of an element to XYZ 12.7276, 11.7362, 30.4487 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(80, 93, 150) }
```

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

```
.background{ background-color: rgb(80, 93,  
150) }
```

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