

Converting Colors

XYZ(0.4678, 0.4801, 0.7487)

Have a look what the booklet for
XYZ(0.4678, 0.4801, 0.7487)
contains.

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Color

XYZ(0.4631, 0.4777, 0.7296)

Conversions

Conversions Part 1

Format	Color
Hex	0D0F14
RGB	13, 15, 20
RGB Percent	5%, 6%, 8%
CMY	0.9490, 0.9412, 0.9216
CMYK	0.35, 0.25, 0.00, 0.92
HSL	223°, 21%, 6%
HSV	223°, 35%, 8%
XYZ	0.4631, 0.4777, 0.7296
YIQ	14.9720, -2.7970, 1.1310

Conversions

Conversions Part 2

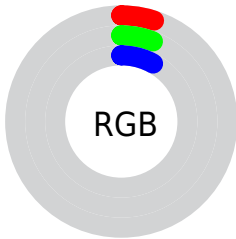
Format	Color
RYB	13, 15, 20
Decimal	855828
CIELab	4.32, 0.37, -3.00
CIELCh	4, 3.019, 277.062
Yxy	0.4777, 0.2772, 0.2860
Android (android.graphics.Color)	4279045908 (0xFF0D0F14)
YUV	14.9720, 2.4788, -1.7294
Hunter-Lab	6.9116, -0.1352, -1.4207

Details

The XYZ color **0.4631, 0.4777, 0.7296** is a dark color, and the websafe version is hex **000000**. A complement of this color would be **0.5776, 0.6106, 0.4683**, and the grayscale version is **0.4522, 0.4757, 0.5181**.

A 20% lighter version of the original color is **4.0134, 4.2147, 5.1594**, and **0.0000, 0.0000, 0.0000** is the 20% darker color. If you saturate the color by 10%, you get **0.4156, 0.4243, 0.7218**, and if you desaturate by 10%, it is **0.5150, 0.5355, 0.7380**.

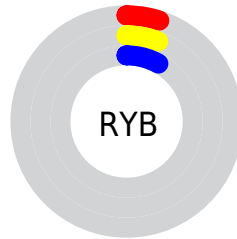
Distribution



Red (5%)

Green (6%)

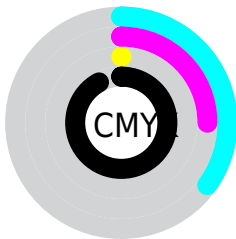
Blue (8%)



Red (5%)

Yellow (6%)

Blue (8%)

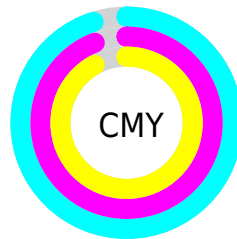


Cyan (35%)

Magenta (25%)

Yellow (0%)

Black (92%)



Cyan (95%)

Magenta (94%)

Yellow (92%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 0.4631, 0.4777, 0.7296 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 0.4631, 0.4777, 0.7296 by changing the saturation by 10% instead.

■ 0.4631, 0.4777,
0.7296

■ 0.4631, 0.4777,
0.7296

■ 81.9379, 86.0063,
98.1417

■ 0.0000, 0.0000,
0.0000

■ 4.0156, 4.1978,
5.1876

■ 7.7962, 8.1605,
9.8382

■ 13.4184, 14.0573,
16.6675

■ 21.2473, 22.2726,
26.0938

■ 31.6483, 33.1907,
38.5359

■ 44.9869, 47.1961,

54.4122

■ 61.6283, 64.6731,
74.1413

■ 0.4631, 0.4777,
0.7296

■ 0.4631, 0.4777,
0.7296

■ 0.4156, 0.4243,
0.7218

■ 0.5150, 0.5355,
0.7380

■ 0.3721, 0.3749,
0.7146

■ 0.5715, 0.5977,
0.7471

■ 0.3303, 0.3284,
0.7078

■ 0.6327, 0.6645,
0.7567

■ 0.2896, 0.2843,
0.7014

■ 0.6986, 0.7360,
0.7671

■ 0.2491, 0.2403,
0.6951

■ 0.7694, 0.8122,
0.7780

■ 0.2085, 0.1964,
0.6887

■ 0.8453, 0.8932,
0.7897

■ 0.1882, 0.1743,
0.6855

■ 0.9261, 0.9791,
0.8020

■ 1.0122, 1.0701,
0.8150

■ 1.1036, 1.1661,
0.8287

Harmonies

Analogous

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



0.4253, 0.4777, 0.7145



0.4631, 0.4777, 0.7296



0.4985, 0.4777, 0.6886

Triad

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



0.4631, 0.4777, 0.7296



0.5128, 0.4777, 0.3929



0.3862, 0.4777, 0.4379

Complementary

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



0.4631, 0.4777, 0.7296



0.5776, 0.6106, 0.4683

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.



0.4096, 0.4777, 0.3517



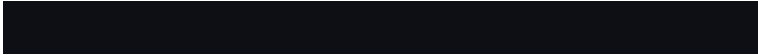
0.4631, 0.4777, 0.7296



0.4828, 0.4777, 0.3258

Square

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



0.4631, 0.4777, 0.7296



0.5272, 0.4777, 0.4942



0.4450, 0.4777, 0.3107



0.3809, 0.4777, 0.5461

Rectangle

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



0.4631, 0.4777, 0.7296



0.5159, 0.4777, 0.6349



0.4450, 0.4777, 0.3107



0.3922, 0.4777, 0.4054

Sweetspot

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



0.4631, 0.4777, 0.7296



0.8531, 0.8940, 1.0758



0.5246, 0.6293, 0.6618



0.3393, 0.3558, 0.4232



25.0241, 26.3273, 28.6705



0.3741, 0.3936, 0.4286

Same Dimension

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



0.4631, 0.4777, 0.7296



0.5883, 0.5997, 1.0330



0.4577, 0.4351, 0.7217



0.2736, 0.2872, 0.3339



1.5041, 1.0332, 6.5899



12.0806, 7.2081, 56.2909

Inverse Universe

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



0.5187, 0.4712, 0.5155



0.6891, 0.5920, 0.6435



0.5837, 0.6638, 0.4783



0.2792, 0.2859, 0.3124



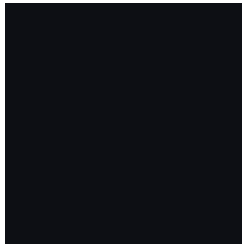
2.9563, 1.5083, 0.8489



24.9581, 12.7798, 5.0799

Previews

White Background



This preview shows how the XYZ color 0.4631, 0.4777, 0.7296 looks on a white background.

Color Contrast Check

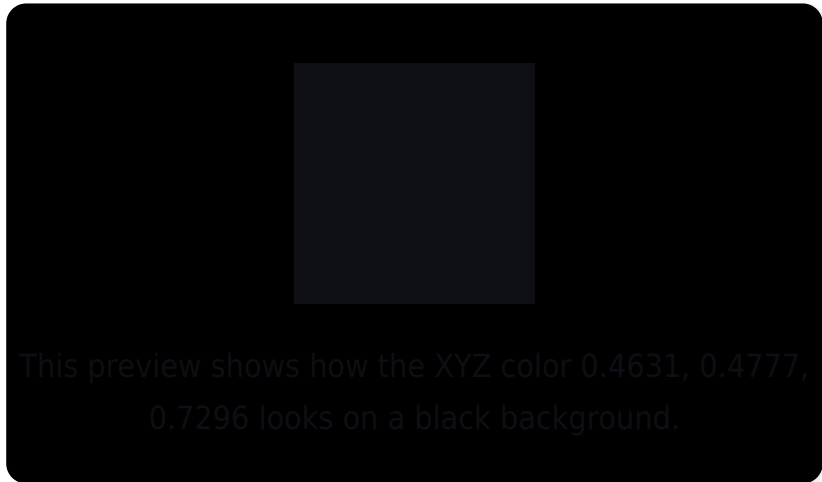
Large Text (above 18pt) WCAG AA ✓ Pass

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

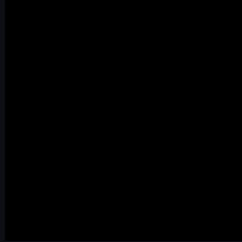
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

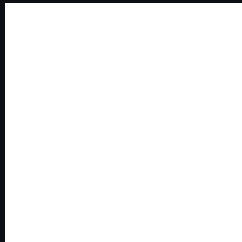
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 0.4631, 0.4777, 0.7296

Background



This preview shows how black text looks on a background with the XYZ color 0.4631, 0.4777, 0.7296.



This preview shows how white text looks on a background with the XYZ color 0.4631, 0.4777, 0.7296.

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

0.4631, 0.4777, 0.7296

Protanopia

0.4782, 0.4855, 0.7303

Deuteranopia

0.4782, 0.4855, 0.7303



Tritanopia

0.4381, 0.4892, 0.6017

Trichromacy



Original Color

0.4631, 0.4777, 0.7296

Protanomaly

0.4782, 0.4855, 0.7303

Deuteranomaly

0.4782, 0.4855, 0.7303

Tritanomaly

0.4461, 0.4924, 0.6438

Monochromacy



Original Color

0.4631, 0.4777, 0.7296

Achromatopsia

0.4540, 0.4777, 0.5202

Achromatomaly

0.4531, 0.4755, 0.5982

CSS Examples

Text

The CSS property to change the color of the text to XYZ 0.4631, 0.4777, 0.7296 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(13, 15, 20)` looks like.

```
.text, #text, p{  
    color:rgb(13, 15, 20)  
}
```

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(13, 15, 20) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(13, 15, 20) }
```

Border

The CSS property to change the border of an element to XYZ 0.4631, 0.4777, 0.7296 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(13, 15, 20) }
```

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

```
.border{ border-color:rgb(13, 15, 20) }
```

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

Here you see how a box with a 4 pixel rgb(13, 15, 20) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(13, 15, 20); -webkit-box-  
shadow:4px 4px 4px 4px rgb(13, 15, 20);  
box-shadow:4px 4px 4px 4px rgb(13, 15, 20)  
}
```


Background

The CSS property to change the background color of an element to XYZ 0.4631, 0.4777, 0.7296 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(13, 15, 20) }
```

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

```
.background{ background-color: rgb(13, 15,  
20) }
```

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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