

Converting Colors

XYZ(13.7741, 21.7103, 45.7031)

Have a look what the booklet for
XYZ(13.7741, 21.7103, 45.7031)
contains.

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Color

**XYZ(18.4696, 24.0818,
45.7943)**

Conversions

Conversions Part 1

Format	Color
Hex	0093B2
RGB	0, 147, 178
RGB Percent	0%, 58%, 70%
CMY	0.9999, 0.4235, 0.3020
CMYK	1.00, 0.17, 0.00, 0.30
HSL	190°, 100%, 35%
HSV	190°, 100%, 70%
XYZ	18.4696, 24.0818, 45.7943
YIQ	106.5810, -97.5630, -21.5230

Conversions

Conversions Part 2

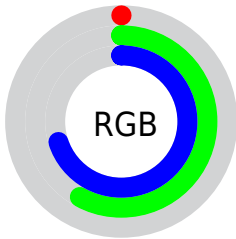
Format	Color
RYB	0, 81, 178
Decimal	37810
CIELab	56.17, -21.47, -25.42
CIELCh	56, 33.270, 229.813
Yxy	24.0818, 0.2091, 0.2726
Android (android.graphics.Color)	4278227890 (0xFF0093B2)
YUV	106.5810, 35.2096, -93.4715
Hunter-Lab	49.0732, -18.6964, -20.9772

Details

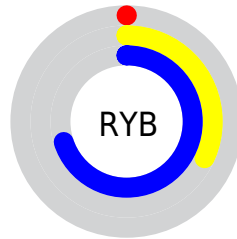
The XYZ color **18.4696, 24.0818, 45.7943** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **18.8513, 10.4468, 1.0238**, and the grayscale version is **13.7876, 14.5056, 15.7966**.

A 20% lighter version of the original color is **40.3540, 50.0935, 85.3840**, and **7.8845, 9.8464, 20.8870** is the 20% darker color. If you saturate the color by 10%, you get **18.4691, 24.0806, 45.7946**, and if you desaturate by 10%, it is **19.2050, 25.1868, 45.9693**.

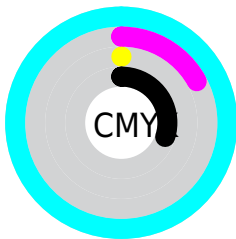
Distribution



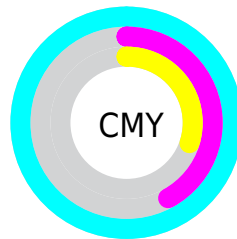
- Red (0%)
- Green (58%)
- Blue (70%)



- Red (0%)
- Yellow (32%)
- Blue (70%)



- Cyan (100%)
- Magenta (17%)
- Yellow (0%)
- Black (30%)



- Cyan (100%)
- Magenta (42%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.4696, 24.0818, 45.7943 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 18.4696, 24.0818, 45.7943 by changing the saturation by 10% instead.

18.4696, 24.0818,
45.7943

18.4696, 24.0818,
45.7943

236.4995,
273.2338, 386.2346

11.3894, 15.3943,
31.7360

40.3597, 50.1637,
85.2421

6.3986, 9.0966,
20.8968

55.9004, 68.3268,
111.4687

3.1319, 4.8042,
12.8581

74.9919, 90.4173,
142.5885

1.2239, 2.1329,
7.2013

97.9996, 116.8195,
179.0201

0.1251, 0.6830,
3.5080

125.2888,
147.9179, 221.1820

0.0000, 0.0000,
1.3595

157.2250,

0.0000, 0.0000,

184.0968, 269.4926

0.1098

194.1734,
225.7406, 324.3706

■ 0.0000, 0.0000,
0.0000

■ 18.4696, 24.0818,
45.7943

■ 18.4696, 24.0818,
45.7943

■ 18.4691, 24.0806,
45.7946

■ 19.2050, 25.1868,
45.9693

■ 20.1753, 26.4318,
46.1585

■ 21.4665, 27.8620,
46.3665

■ 23.1194, 29.4982,
46.5952

■ 25.1684, 31.3586,
46.8463

■ 27.6439, 33.4589,
47.1212

■ 30.5732, 35.8132,
47.4212

■ 33.9815, 38.4348,
47.7476

■ 37.8917, 41.3356,
48.1014

Harmonies

Analogous

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



16.6517, 24.0818, 34.0157



18.4696, 24.0818, 45.7943



21.6146, 24.0818, 52.8478

Triad

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



18.4696, 24.0818, 45.7943



30.9048, 24.0818, 30.1195



20.4889, 24.0818, 10.9936

Complementary

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



18.4696, 24.0818, 45.7943



18.8513, 10.4468, 1.0238

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.



24.2126, 24.0818, 10.4897



18.4696, 24.0818, 45.7943



30.5168, 24.0818, 19.7184

Square

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



18.4696, 24.0818, 45.7943



28.9703, 24.0818, 42.2693



27.9626, 24.0818, 13.2117



17.7245, 24.0818, 14.8559

Rectangle

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



18.4696, 24.0818, 45.7943



24.1637, 24.0818, 52.8858



27.9626, 24.0818, 13.2117



21.6600, 24.0818, 10.4768

Sweetspot

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



18.4704, 24.0826, 45.7949



55.1347, 64.7027, 85.9641



16.1515, 31.9336, 6.5205



11.7058, 13.9301, 18.9941



86.6293, 91.1408, 99.2523



17.0014, 17.8868, 19.4787

Same Dimension

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



18.4704, 24.0826, 45.7949



33.3413, 43.3664, 82.9945



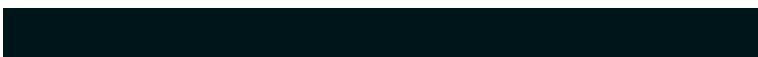
9.6187, 6.3792, 42.8443



8.6142, 9.3747, 10.8618



13.2555, 17.3113, 32.7798



0.4502, 0.6108, 1.0424

Inverse Universe

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



23.6273, 11.5725, 28.5930



42.7685, 20.9536, 51.4453



24.9191, 22.5824, 3.0464



8.7852, 8.6208, 10.3675



16.9254, 8.2877, 20.5649



0.5492, 0.2674, 0.7350

Previews

White Background



This preview shows how the XYZ color 18.4696, 24.0818, 45.7943 looks on a white 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

Black Background



This preview shows how the XYZ color 18.4696, 24.0818, 45.7943 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

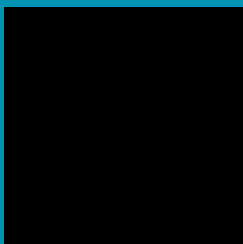
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

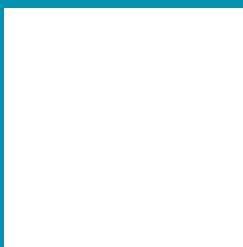
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 18.4696, 24.0818, 45.7943

Background



This preview shows how black text looks on a background with the XYZ color 18.4696, 24.0818, 45.7943.

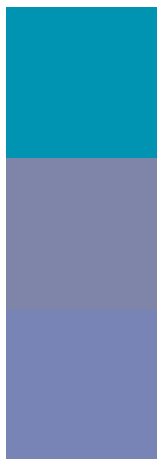


This preview shows how white text looks on a background with the XYZ color 18.4696, 24.0818,

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

18.4696, 24.0818, 45.7943

Protanopia

24.0596, 24.0378, 40.4175

Deuteranopia

24.3375, 23.8318, 47.0333



Tritanopia

17.1805, 24.0681, 37.4583

Trichromacy



Original Color

18.4696, 24.0818, 45.7943

Protanomaly

19.8431, 22.8610, 42.3965

Deuteranomaly

20.1644, 22.7231, 46.5032

Tritanomaly

17.5650, 23.9698, 40.2601

Monochromacy



Original Color

18.4696, 24.0818, 45.7943

Achromatopsia

13.9749, 14.7027, 16.0113

Achromatomaly

13.5771, 16.8415, 24.7254

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.4696, 24.0818, 45.7943 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(0, 147, 178)` looks like.

```
.text, #text, p{  
    color:rgb(0, 147, 178)  
}
```

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(0, 147, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 147, 178) }
```

Border

The CSS property to change the border of an element to XYZ 18.4696, 24.0818, 45.7943 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(0, 147, 178) }
```


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

```
.border{ border-color:rgb(0, 147, 178) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 147, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 147, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 147, 178);  
box-shadow:4px 4px 4px 4px rgb(0, 147,  
178) }
```

Background

The CSS property to change the background color of an element to XYZ 18.4696, 24.0818, 45.7943 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 147, 178) }
```

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

```
.background{ background-color: rgb(0, 147,  
178) }
```

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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