

Converting Colors

XYZ(18.4011, 23.4057, 48.9821)

Have a look what the booklet for
XYZ(18.4011, 23.4057, 48.9821)
contains.

XYZ(18.7771, 23.7115, 48.9345)	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(18.7771, 23.7115,
48.9345)**

Conversions

Conversions Part 1

Format	Color
Hex	0091B8
RGB	0, 145, 184
RGB Percent	0%, 57%, 72%
CMY	0.9999, 0.4314, 0.2784
CMYK	1.00, 0.21, 0.00, 0.28
HSL	193°, 100%, 36%
HSV	193°, 100%, 72%
XYZ	18.7771, 23.7115, 48.9345
YIQ	106.0910, -98.9390, -18.6110

Conversions

Conversions Part 2

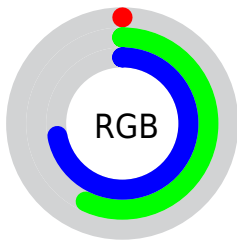
Format	Color
RYB	0, 81, 184
Decimal	37304
CIELab	55.80, -18.27, -29.41
CIElCh	56, 34.619, 238.152
Yxy	23.7115, 0.2054, 0.2594
Android (android.graphics.Color)	4278227384 (0xFF0091B8)
YUV	106.0910, 38.4091, -93.0418
Hunter-Lab	48.6945, -16.3838, -25.4962

Details

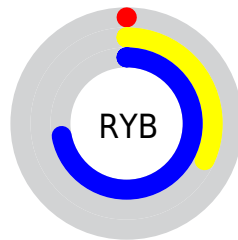
The XYZ color **18.7771, 23.7115, 48.9345** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **20.4941, 11.6437, 1.1683**, and the grayscale version is **13.6450, 14.3556, 15.6333**.

A 20% lighter version of the original color is **40.8709, 49.5710, 89.8521**, and **8.0994, 9.6441, 22.9073** is the 20% darker color. If you saturate the color by 10%, you get **18.7764, 23.7099, 48.9347**, and if you desaturate by 10%, it is **19.6415, 25.0576, 49.1492**.

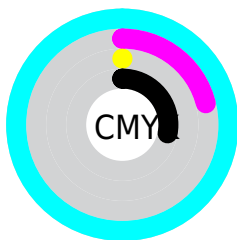
Distribution



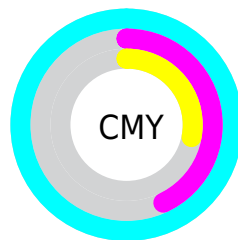
- Red (0%)
- Green (57%)
- Blue (72%)



- Red (0%)
- Yellow (32%)
- Blue (72%)



- Cyan (100%)
- Magenta (21%)
- Yellow (0%)
- Black (28%)



- Cyan (100%)
- Magenta (43%)
- Yellow (28%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.7771, 23.7115, 48.9345 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 18.7771, 23.7115, 48.9345 by changing the saturation by 10% instead.

■ 18.7771, 23.7115,
48.9345

■ 18.7771, 23.7115,
48.9345

238.1773,
271.3587, 399.0995

■ 11.6124, 15.1197,
34.2023

■ 40.8769, 49.5590,
89.9741

■ 6.5506, 8.9035,
22.7704

■ 56.5427, 67.5835,
117.1187

■ 3.2265, 4.6783,
14.2204

■ 75.7729, 89.5211,
149.2377

■ 1.2746, 2.0598,
8.1336

■ 98.9328, 115.7562,
186.7498

■ 0.1641, 0.6418,
4.0916

■ 126.3879,
146.6730, 230.0734

■ 0.0000, 0.0000,
1.6757

■ 158.5034,

■ 0.0000, 0.0000,

182.6562, 279.6273

0.3440

195.6447,
224.0899, 335.8298

■ 0.0000, 0.0000,
0.0000

■ 18.7771, 23.7115,
48.9345

■ 18.7771, 23.7115,
48.9345

■ 18.7764, 23.7099,
48.9347

■ 19.6415, 25.0576,
49.1492

■ 20.7678, 26.5690,
49.3816

■ 22.2471, 28.2934,
49.6365

■ 24.1236, 30.2537,
49.9160

■ 26.4348, 32.4698,
50.2219

■ 29.2139, 34.9588,
50.5559

■ 32.4907, 37.7366,
50.9193

■ 36.2923, 40.8172,
51.3136

■ 40.6440, 44.2141,
51.7399

Harmonies

Analogous

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



16.5046, 23.7115, 37.4453



18.7771, 23.7115, 48.9345



22.2940, 23.7115, 54.0823

Triad

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



18.7771, 23.7115, 48.9345



30.9731, 23.7115, 26.5227



19.1537, 23.7115, 11.0417

Complementary

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



18.7771, 23.7115, 48.9345



20.4941, 11.6437, 1.1683

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.



22.7819, 23.7115, 9.6559



18.7771, 23.7115, 48.9345



29.8850, 23.7115, 16.8872

Square

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



18.7771, 23.7115, 48.9345



29.5915, 23.7115, 39.0171



26.7682, 23.7115, 11.4430



16.7036, 23.7115, 15.9918

Rectangle

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



18.7771, 23.7115, 48.9345



24.9764, 23.7115, 52.3547



26.7682, 23.7115, 11.4430



20.2620, 23.7115, 10.2203

Sweetspot

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



18.7779, 23.7123, 48.9351



58.5658, 68.1320, 92.2687



17.4723, 34.4140, 7.4577



12.0699, 14.2222, 19.8306



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988

Same Dimension

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



18.7779, 23.7123, 48.9351



33.8568, 42.6198, 88.6466



10.0291, 6.2146, 46.0188



9.1007, 9.8787, 11.5066



12.9931, 16.4458, 33.7426



0.4991, 0.6619, 1.2032

Inverse Universe

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



24.8787, 12.2356, 27.8393



45.0064, 22.1420, 49.9812



27.5929, 25.8412, 3.5345



9.2972, 9.1292, 10.9124



17.1720, 8.4426, 19.3243



0.6261, 0.3059, 0.7904

Previews

White Background



This preview shows how the XYZ color 18.7771, 23.7115, 48.9345 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 18.7771, 23.7115, 48.9345 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

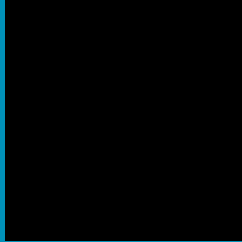
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 18.7771, 23.7115, 48.9345

Background



This preview shows how black text looks on a background with the XYZ color 18.7771, 23.7115, 48.9345.

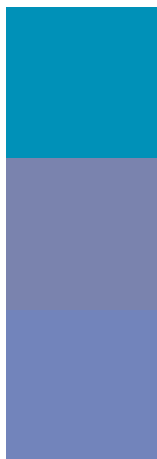


This preview shows how white text looks on a background with the XYZ color 18.7771, 23.7115,

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

18.7771, 23.7115, 48.9345

Protanopia

23.7823, 23.4262, 43.3126

Deuteranopia

24.1603, 23.6678, 50.3087



Tritanopia

16.8479, 23.6830, 36.4842

Trichromacy



Original Color

18.7771, 23.7115, 48.9345

Protanomaly

19.9819, 22.4424, 45.3981

Deuteranomaly

20.5562, 22.8530, 49.7820

Tritanomaly

17.5016, 23.6946, 40.6969

Monochromacy



Original Color

18.7771, 23.7115, 48.9345

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

13.3343, 16.3475, 25.0068

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.7771, 23.7115, 48.9345 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, 145, 184)` looks like.

```
.text, #text, p{  
    color:rgb(0, 145, 184)  
}
```

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, 145, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 145, 184) }
```

Border

The CSS property to change the border of an element to XYZ 18.7771, 23.7115, 48.9345 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, 145, 184) }
```


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

```
.border{ border-color:rgb(0, 145, 184) }
```

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

Here you see how a box with a 4 pixel rgb(0, 145, 184) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 145, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 145, 184);  
box-shadow:4px 4px 4px 4px rgb(0, 145,  
184) }
```

Background

The CSS property to change the background color of an element to XYZ 18.7771, 23.7115, 48.9345 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 145, 184) }
```

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

```
.background{ background-color: rgb(0, 145,  
184) }
```

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