

# Converting Colors

XYZ(15.7831, 16.5118, 72.6145)

Have a look what the booklet for  
XYZ(15.7831, 16.5118, 72.6145)  
contains.

<b>XYZ(20.1710, 18.8148, 73.0895)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(20.1710, 18.8148,  
73.0895)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	0078E0
RGB	0, 120, 224
RGB Percent	0%, 47%, 88%
CMY	0.9998, 0.5294, 0.1216
CMYK	1.00, 0.46, 0.00, 0.12
HSL	208°, 100%, 44%
HSV	208°, 100%, 88%
XYZ	20.1710, 18.8148, 73.0895
YIQ	95.9760, -104.9040, 6.9040

# Conversions

## Conversions Part 2

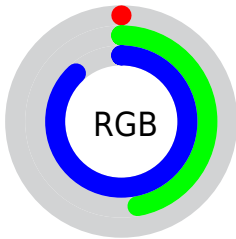
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 78, 224
Decimal	30944
CIELab	50.47, 11.73, -60.51
CIELCh	50, 61.641, 280.972
Yxy	18.8148, 0.1800, 0.1679
Android (android.graphics.Color)	4278221024 (0xFF0078E0)
YUV	95.9760, 63.1158, -84.1710
Hunter-Lab	43.3760, 7.0992, -69.5416

# Details

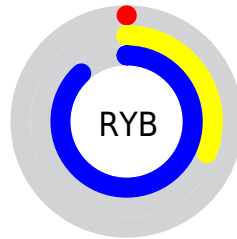
The XYZ color **20.1710, 18.8148, 73.0895** is a dark color, and the websafe version is hex **0066CC**. The color can be described as dark washed azure. A complement of this color would be **35.6966, 25.7588, 3.0920**, and the grayscale version is **10.9867, 11.5588, 12.5876**.

A 20% lighter version of the original color is **38.5114, 39.6681, 100.2347**, and **9.4504, 7.5922, 38.0131** is the 20% darker color. If you saturate the color by 10%, you get **20.1682, 18.8091, 73.0890**, and if you desaturate by 10%, it is **21.8320, 21.6304, 73.5459**.

# Distribution



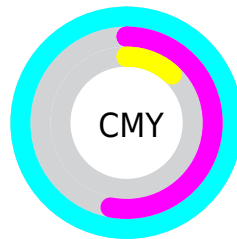
- Red (0%)
- Green (47%)
- Blue (88%)



- Red (0%)
- Yellow (31%)
- Blue (88%)



- Cyan (100%)
- Magenta (46%)
- Yellow (0%)
- Black (12%)



- Cyan (100%)
- Magenta (53%)
- Yellow (12%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.1710, 18.8148, 73.0895 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 20.1710, 18.8148, 73.0895 by changing the saturation by 10% instead.



■ 20.1710, 18.8148,  
73.0895

■ 20.1710, 18.8148,  
73.0895

245.6553,  
245.4244, 490.4040

■ 12.6284, 11.5365,  
53.5569

■ 43.2054, 41.4209,  
125.3264

■ 7.2484, 6.4289,  
37.8567

■ 59.4280, 57.5176,  
158.8677

■ 3.6656, 3.1076,  
25.5706

■ 79.2746, 77.3225,  
197.9156

■ 1.5148, 1.1882,  
16.2798

■ 103.1105,  
101.2200, 242.8888

■ 0.3358, 0.0520,  
9.5658

■ 131.3012,  
129.5946, 294.2057

■ 0.0000, 0.0000,  
5.0102

164.2120,

■ 0.0000, 0.0000,

162.8306, 352.2848

2.1944

202.2083,  
201.3124, 417.5447

■ 0.0000, 0.0000,  
0.6712

■ 0.0000, 0.0000,  
0.0000

■ 20.1710, 18.8148,  
73.0895

■ 20.1710, 18.8148,  
73.0895

■ 20.1682, 18.8091,  
73.0890

■ 21.8320, 21.6304,  
73.5459

■ 24.0266, 24.9289,  
74.0669

■ 26.8869, 28.7844,  
74.6603

■ 30.4893, 33.2418,  
75.3308

■ 34.8985, 38.3401,  
76.0825

■ 40.1717, 44.1138,  
76.9190

■ 46.3604, 50.5947,  
77.8438

■ 53.5117, 57.8118,  
78.8599

■ 61.6693, 65.7925,  
79.9704

# Harmonies

## Analogous

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



14.3776, 18.8148, 70.3191



20.1710, 18.8148, 73.0895



26.5689, 18.8148, 56.9519

# Triad

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



20.1710, 18.8148, 73.0895



28.0899, 18.8148, 5.5569



9.0402, 18.8148, 11.4884

# Complementary

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



20.1710, 18.8148, 73.0895



35.6966, 25.7588, 3.0920

# 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.



11.3321, 18.8148, 4.2914



20.1710, 18.8148, 73.0895



21.9161, 18.8148, 2.4328

# Square

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



20.1710, 18.8148, 73.0895



31.7759, 18.8148, 14.8165



15.7747, 18.8148, 2.1538



8.7765, 18.8148, 27.4440



# Rectangle

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



20.1710, 18.8148, 73.0895



29.9929, 18.8148, 41.0764



15.7747, 18.8148, 2.1538



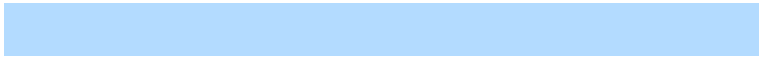
9.5700, 18.8148, 8.2683

# Sweetspot

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



20.1719, 18.8153, 73.0900



61.9804, 67.6549, 104.3997



28.9971, 54.2482, 21.2108



12.4815, 13.6674, 22.2302



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



20.1719, 18.8153, 73.0900



26.9360, 24.9920, 98.0120



13.5779, 5.6273, 70.8920



13.5570, 14.4531, 17.4629



11.8556, 11.1808, 42.5816



0.9111, 0.9537, 2.9813



# Inverse Universe

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



34.1315, 17.2046, 19.2914



45.7253, 23.0541, 25.5490



54.4858, 63.3371, 9.3551



14.0126, 13.8227, 15.8365



19.9244, 10.0367, 11.5334



1.4262, 0.7137, 1.0370



# Previews

## White Background



This preview shows how the XYZ color 20.1710, 18.8148, 73.0895 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 20.1710, 18.8148, 73.0895 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

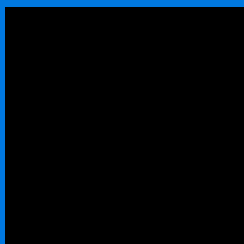
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

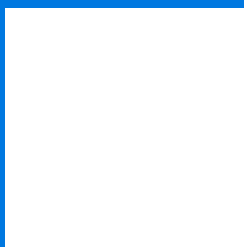
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 20.1710, 18.8148, 73.0895**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.1710, 18.8148, 73.0895.



This preview shows how white text looks on a background with the XYZ color 20.1710, 18.8148,



# 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

20.1710, 18.8148, 73.0895

### Protanopia

21.4784, 18.8514, 70.2168

### Deuteranopia

19.0971, 18.7741, 66.2356



## Tritanopia

13.2700, 18.7281, 28.5067

# Trichromacy



## Original Color

20.1710, 18.8148, 73.0895

## Protanomaly

20.4087, 18.4566, 70.8934

## Deuteranomaly

19.4923, 18.7367, 68.9189

## Tritanomaly

15.1656, 18.4169, 41.7852

# Monochromacy



## Original Color

20.1710, 18.8148, 73.0895

## Achromatopsia

11.1181, 11.6971, 12.7381

## Achromatomaly

11.9340, 13.0784, 27.8820

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.1710, 18.8148, 73.0895 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, 120, 224)` looks like.

```
.text, #text, p{  
    color:rgb(0, 120, 224)  
}
```

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, 120, 224) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 120, 224) }
```

## Border

The CSS property to change the border of an element to XYZ 20.1710, 18.8148, 73.0895 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, 120, 224) }
```



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

```
.border{ border-color:rgb(0, 120, 224) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 120, 224)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(0, 120, 224); -webkit-box-shadow:4px 4px 4px 4px rgb(0, 120, 224); box-shadow:4px 4px 4px 4px rgb(0, 120, 224) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.1710, 18.8148, 73.0895 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 120, 224) }
```

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

```
.background{ background-color: rgb(0, 120,  
224) }
```

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