

Converting Colors

XYZ(18.1100, 18.3978, 40.8578)

Have a look what the booklet for
XYZ(18.1100, 18.3978, 40.8578)
contains.

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Color

**XYZ(18.0920, 18.4591,
40.6396)**

Conversions

Conversions Part 1

Format	Color
Hex	5978AA
RGB	89, 120, 170
RGB Percent	35%, 47%, 67%
CMY	0.6510, 0.5294, 0.3333
CMYK	0.48, 0.29, 0.00, 0.33
HSL	217°, 32%, 51%
HSV	217°, 48%, 67%
XYZ	18.0920, 18.4591, 40.6396
YIQ	116.4310, -34.5260, 8.9780

Conversions

Conversions Part 2

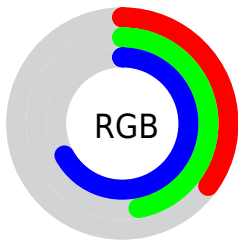
Format	Color
R_{YB}	89, 111, 170
Decimal	5863594
CIE Lab	50.05, 2.93, -30.12
CIE LCh	50, 30.265, 275.554
Yxy	18.4591, 0.2344, 0.2391
Android (android.graphics.Color)	4284053674 (0xFF5978AA)
YUV	116.4310, 26.4095, -24.0570
Hunter-Lab	42.9641, -0.0214, -26.0074

Details

The XYZ color **18.0920, 18.4591, 40.6396** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **27.6140, 27.7333, 13.3496**, and the grayscale version is **16.6623, 17.5301, 19.0902**.

A 20% lighter version of the original color is **39.8077, 40.8357, 77.7355**, and **6.2471, 6.2828, 18.0230** is the 20% darker color. If you saturate the color by 10%, you get **15.4515, 15.3262, 40.1744**, and if you desaturate by 10%, it is **21.2488, 22.0642, 41.1694**.

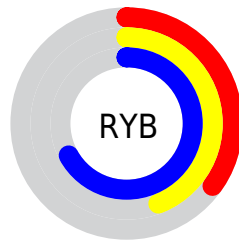
Distribution



Red (35%)

Green (47%)

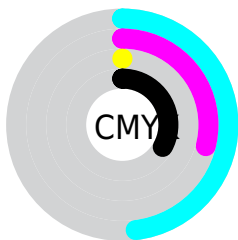
Blue (67%)



Red (35%)

Yellow (44%)

Blue (67%)

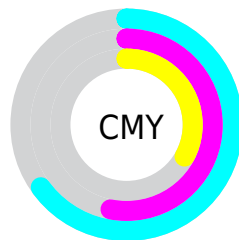


Cyan (48%)

Magenta (29%)

Yellow (0%)

Black (33%)



Cyan (65%)

Magenta (53%)

Yellow (33%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.0920, 18.4591, 40.6396 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 18.0920, 18.4591, 40.6396 by changing the saturation by 10% instead.

■ 18.0920, 18.4591,
40.6396

■ 18.0920, 18.4591,
40.6396

234.4247,
243.4462, 364.4440

■ 11.1161, 11.2801,
27.7200

■ 39.7229, 40.8181,
77.3842

■ 6.2129, 6.2556,
17.8775

■ 55.1086, 56.7668,
102.0463

■ 3.0168, 3.0011,
10.6935

■ 74.0284, 76.4077,
131.4596

■ 1.1627, 1.1323,
5.7496

■ 96.8475, 100.1249,
166.0428

■ 0.0766, 0.0053,
2.6271

123.9313,
128.3030, 206.2142

■ 0.0000, 0.0000,
0.9064

155.6452,

■ 0.0000, 0.0000,

161.3263, 252.3926

0.0000

192.3545,
199.5792, 304.9963

■ 18.0920, 18.4591,
40.6396

■ 18.0920, 18.4591,
40.6396

■ 15.4515, 15.3262,
40.1744

■ 21.2488, 22.0642,
41.1694

■ 13.2947, 12.6410,
39.7698

■ 24.9481, 26.1603,
41.7651

■ 11.5878, 10.3796,
39.4233

■ 29.2163, 30.7674,
42.4294

■ 10.2914, 8.5143,
39.1315

■ 34.0776, 35.9037,
43.1646

■ 9.3448, 7.0060,
38.8903

■ 39.5547, 41.5864,
43.9728

■ 9.1496, 6.6899,
38.8396

■ 45.6690, 47.8320,
44.8560

■ 52.4411, 54.6563,
45.8163

■ 59.8902, 62.0742,
46.8555

■ 68.0351, 70.1003,
47.9754

Harmonies

Analogous

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



15.3296, 18.4591, 38.5015



18.0920, 18.4591, 40.6396



21.0037, 18.4591, 36.1583

Triad

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



18.0920, 18.4591, 40.6396



22.5021, 18.4591, 12.1465



12.9280, 18.4591, 14.1698

Complementary

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



18.0920, 18.4591, 40.6396



27.6140, 27.7333, 13.3496

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.



14.4882, 18.4591, 9.6773



18.0920, 18.4591, 40.6396



19.9637, 18.4591, 8.7554

Square

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



18.0920, 18.4591, 40.6396



23.7241, 18.4591, 18.5873



17.0088, 18.4591, 7.9961



12.5441, 18.4591, 21.6901

Rectangle

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



18.0920, 18.4591, 40.6396



22.5755, 18.4591, 30.5938



17.0088, 18.4591, 7.9961



13.3232, 18.4591, 12.3290

Sweetspot

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



18.0927, 18.4598, 40.6400



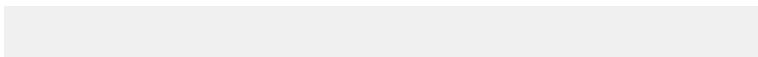
55.8779, 58.8749, 77.4208



23.1517, 32.7364, 29.5062



12.0609, 12.7043, 17.2042



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

Same Dimension

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



18.0927, 18.4598, 40.6400



27.8669, 27.6033, 72.8611



15.9145, 12.6696, 39.6372



7.3584, 7.7537, 9.5271



6.7810, 5.0221, 28.5875



0.2146, 0.2214, 0.7121

Inverse Universe

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



23.5407, 17.0476, 19.8198



39.2243, 25.7690, 29.2085



30.7858, 37.0015, 14.9714



7.6455, 7.5881, 8.4503



12.9233, 6.5780, 4.4077



0.3395, 0.1701, 0.2391

Previews

White Background



This preview shows how the XYZ color 18.0920, 18.4591, 40.6396 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 18.0920, 18.4591, 40.6396 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

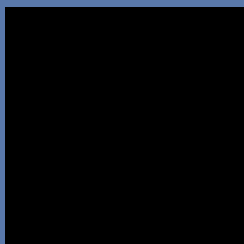
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

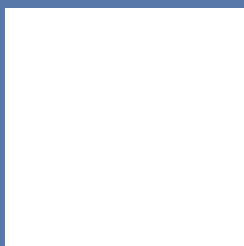
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 18.0920, 18.4591, 40.6396

Background



This preview shows how black text looks on a background with the XYZ color 18.0920, 18.4591, 40.6396.

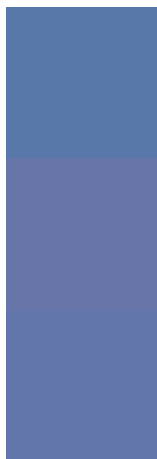


This preview shows how white text looks on a background with the XYZ color 18.0920, 18.4591,

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

18.0920, 18.4591, 40.6396

Protanopia

19.0227, 18.4333, 39.6012

Deuteranopia

18.9747, 18.5498, 41.1085



Tritanopia

15.2007, 18.3901, 26.4154

Trichromacy



Original Color

18.0920, 18.4591, 40.6396

Protanomaly

18.6769, 18.4181, 40.1068

Deuteranomaly

18.6668, 18.5668, 41.1280

Tritanomaly

16.1997, 18.4242, 31.1362

Monochromacy



Original Color

18.0920, 18.4591, 40.6396

Achromatopsia

16.6002, 17.4647, 19.0191

Achromatomaly

16.7491, 17.5643, 25.8000

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.0920, 18.4591, 40.6396 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(89, 120, 170)` looks like.

```
.text, #text, p{  
    color:rgb(89, 120, 170)  
}
```

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(89, 120, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(89, 120, 170) }
```

Border

The CSS property to change the border of an element to XYZ 18.0920, 18.4591, 40.6396 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(89, 120, 170) }
```


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

```
.border{ border-color:rgb(89, 120, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(89, 120, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(89, 120, 170); -webkit-box-shadow:4px 4px 4px 4px rgb(89, 120, 170); box-shadow:4px 4px 4px 4px rgb(89, 120, 170) }
```

Background

The CSS property to change the background color of an element to XYZ 18.0920, 18.4591, 40.6396 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(89, 120, 170) }
```

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

```
.background{ background-color: rgb(89, 120,  
170) }
```

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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