

Converting Colors

XYZ(15.0763, 16.9050, 32.8239)

Have a look what the booklet for
XYZ(15.0763, 16.9050, 32.8239)
contains.

XYZ(15.1020, 16.9045, 33.0388)	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(15.1020, 16.9045,
33.0388)**

Conversions

Conversions Part 1

Format	Color
Hex	48779A
RGB	72, 119, 154
RGB Percent	28%, 47%, 60%
CMY	0.7176, 0.5333, 0.3961
CMYK	0.53, 0.23, 0.00, 0.40
HSL	206°, 36%, 44%
HSV	206°, 53%, 60%
XYZ	15.1020, 16.9045, 33.0388
YIQ	108.9370, -39.2470, 0.9210

Conversions

Conversions Part 2

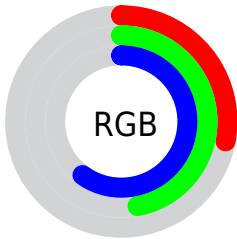
Format	Color
R _Y B	72, 102, 154
Decimal	4749210
CIE Lab	48.14, -5.65, -23.81
CIE LCh	48, 24.472, 256.649
Yxy	16.9045, 0.2322, 0.2599
Android (android.graphics.Color)	4282939290 (0xFF48779A)
YUV	108.9370, 22.2161, -32.3937
Hunter-Lab	41.1151, -6.3865, -18.8630

Details

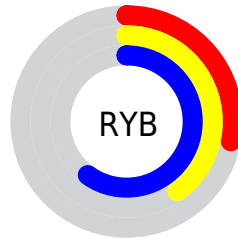
The XYZ color **15.1020, 16.9045, 33.0388** is a dark color, and the websafe version is hex **336699**. A complement of this color would be **19.7542, 17.8536, 8.5363**, and the grayscale version is **14.4655, 15.2188, 16.5733**.

A 20% lighter version of the original color is **34.6757, 38.1649, 65.8606**, and **4.8141, 5.5438, 13.6483** is the 20% darker color. If you saturate the color by 10%, you get **13.3392, 14.8746, 32.7402**, and if you desaturate by 10%, it is **17.2076, 19.1921, 33.3697**.

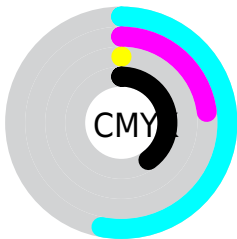
Distribution



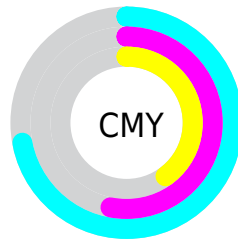
- Red (28%)
- Green (47%)
- Blue (60%)



- Red (28%)
- Yellow (40%)
- Blue (60%)



- Cyan (53%)
- Magenta (23%)
- Yellow (0%)
- Black (40%)



- Cyan (72%)
- Magenta (53%)
- Yellow (40%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 15.1020, 16.9045, 33.0388 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 15.1020, 16.9045, 33.0388 by changing the saturation by 10% instead.

■ 15.1020, 16.9045,
33.0388

■ 15.1020, 16.9045,
33.0388

217.3589,
234.6214, 330.4619

■ 8.9778, 10.1664,
21.8848

■ 34.6022, 38.1615,
65.5528

■ 4.7837, 5.5094,
13.5748

■ 48.7089, 53.4492,
87.7499

■ 2.1544, 2.5492,
7.6902

■ 66.2072, 72.3556,
114.4651

■ 0.7185, 0.9012,
3.8124

■ 87.4623, 95.2651,
146.1170

■ 0.0000, 0.0000,
1.5230

■ 112.8397,
122.5620, 183.1241

■ 0.0000, 0.0000,
0.2350

142.7047,

■ 0.0000, 0.0000,

154.6308, 225.9049

0.0000

177.4226,
191.8558, 274.8780

■ 15.1020, 16.9045,
33.0388

■ 15.1020, 16.9045,
33.0388

■ 13.3392, 14.8746,
32.7402

■ 17.2076, 19.1921,
33.3697

■ 11.8946, 13.0871,
32.4713

■ 19.6751, 21.7478,
33.7329

■ 10.7425, 11.5275,
32.2310

■ 22.5239, 24.5836,
34.1301

■ 9.8520, 10.1781,
32.0175

■ 25.7716, 27.7098,
34.5624

■ 9.3447, 9.3570,
31.8857

■ 29.4345, 31.1365,
35.0308

■ 33.5281, 34.8729,
35.5362

■ 38.0670, 38.9280,
36.0797

■ 43.0650, 43.3103,
36.6621

■ 48.5355, 48.0279,
37.2844

Harmonies

Analogous

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



13.3127, 16.9045, 28.7981



15.1020, 16.9045, 33.0388



17.3209, 16.9045, 32.7707

Triad

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



15.1020, 16.9045, 33.0388



20.5115, 16.9045, 15.1224



13.1601, 16.9045, 11.2277

Complementary

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



15.1020, 16.9045, 33.0388



19.7542, 17.8536, 8.5363

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.



14.8755, 16.9045, 9.0057



15.1020, 16.9045, 33.0388



19.1777, 16.9045, 10.8738

Square

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



15.1020, 16.9045, 33.0388



20.5863, 16.9045, 21.3744



17.0727, 16.9045, 8.8932



12.2632, 16.9045, 15.7263

Rectangle

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



15.1020, 16.9045, 33.0388



18.7510, 16.9045, 30.0533



17.0727, 16.9045, 8.8932



13.6526, 16.9045, 10.2400

Sweetspot

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



15.1026, 16.9051, 33.0392



44.9223, 48.5327, 62.5364



16.8387, 25.5334, 17.7226



9.9107, 10.7382, 14.1207



74.8435, 78.7412, 85.7492



12.6291, 13.2868, 14.4694

Same Dimension

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



15.1026, 16.9051, 33.0392



23.6511, 26.3239, 59.3708



11.2896, 9.2792, 31.7682



6.1636, 6.5845, 7.8751



7.6493, 7.6952, 25.9899



0.1504, 0.1871, 0.4006

Inverse Universe

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



18.9740, 12.8371, 18.9312



31.7809, 19.2709, 29.4107



24.9562, 28.2576, 10.2703



6.3497, 6.2790, 7.2215



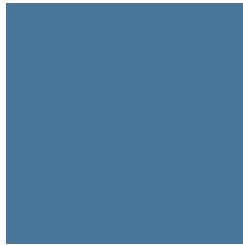
12.3198, 6.1821, 8.2088



0.2024, 0.0997, 0.2184

Previews

White Background



This preview shows how the XYZ color 15.1020, 16.9045, 33.0388 looks on a white background.

Color Contrast Check

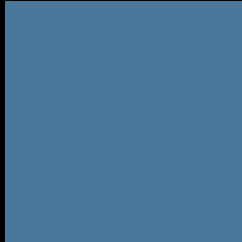
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the XYZ color 15.1020, 16.9045, 33.0388 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

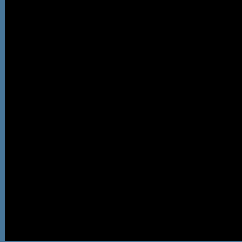
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 15.1020, 16.9045, 33.0388

Background



This preview shows how black text looks on a background with the XYZ color 15.1020, 16.9045, 33.0388.

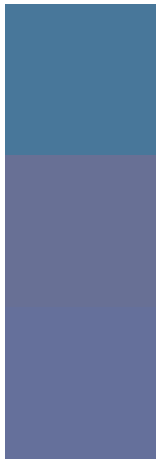


This preview shows how white text looks on a background with the XYZ color 15.1020, 16.9045,

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

15.1020, 16.9045, 33.0388

Protanopia

16.9279, 16.7013, 30.7653

Deuteranopia

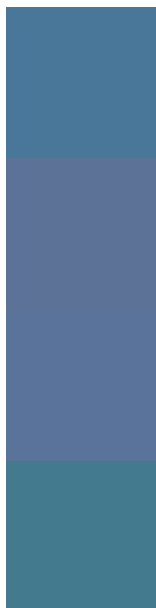
17.0774, 16.7216, 33.3379



Tritanopia

13.4309, 16.9494, 24.7540

Trichromacy



Original Color

15.1020, 16.9045, 33.0388

Protanomaly

16.1303, 16.7711, 31.6652

Deuteranomaly

16.2636, 16.8017, 33.3962

Tritanomaly

14.0820, 17.0354, 27.7453

Monochromacy



Original Color

15.1020, 16.9045, 33.0388

Achromatopsia

14.5356, 15.2926, 16.6537

Achromatomaly

14.4307, 15.7777, 21.6869

CSS Examples

Text

The CSS property to change the color of the text to XYZ 15.1020, 16.9045, 33.0388 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(72, 119, 154)` looks like.

```
.text, #text, p{  
    color:rgb(72, 119, 154)  
}
```

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(72, 119, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 119, 154) }
```

Border

The CSS property to change the border of an element to XYZ 15.1020, 16.9045, 33.0388 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(72, 119, 154) }
```


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

```
.border{ border-color:rgb(72, 119, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 119, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 119, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 119, 154);  
box-shadow:4px 4px 4px 4px rgb(72, 119,  
154) }
```

Background

The CSS property to change the background color of an element to XYZ 15.1020, 16.9045, 33.0388 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 119, 154) }
```

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

```
.background{ background-color: rgb(72, 119,  
154) }
```

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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