

Converting Colors

XYZ(18.7754, 23.0967, 45.4821)

Have a look what the booklet for
XYZ(18.7754, 23.0967, 45.4821)
contains.

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Color

**XYZ(18.7911, 23.1182,
45.5914)**

Conversions

Conversions Part 1

Format	Color
Hex	2D8EB2
RGB	45, 142, 178
RGB Percent	18%, 56%, 70%
CMY	0.8235, 0.4431, 0.3020
CMYK	0.75, 0.20, 0.00, 0.30
HSL	196°, 60%, 44%
HSV	196°, 75%, 70%
XYZ	18.7911, 23.1182, 45.5914
YIQ	117.1010, -69.3680, -9.3680

Conversions

Conversions Part 2

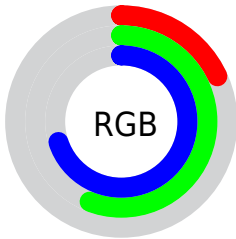
Format	Color
R_{YB}	45, 101, 178
Decimal	2985650
CIE Lab	55.19, -15.59, -26.88
CIE LCh	55, 31.072, 239.881
Yxy	23.1182, 0.2148, 0.2642
Android (android.graphics.Color)	4281175730 (0xFF2D8EB2)
YUV	117.1010, 30.0232, -63.2326
Hunter-Lab	48.0814, -14.3813, -22.5626

Details

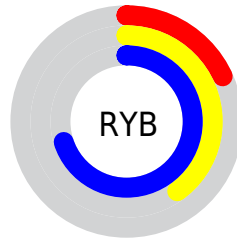
The XYZ color **18.7911, 23.1182, 45.5914** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **21.7774, 15.5410, 4.3356**, and the grayscale version is **16.8663, 17.7447, 19.3239**.

A 20% lighter version of the original color is **41.0216, 48.7354, 85.0867**, and **7.5288, 9.1350, 20.7684** is the 20% darker color. If you saturate the color by 10%, you get **17.4653, 21.3938, 45.3289**, and if you desaturate by 10%, it is **20.4796, 25.0764, 45.8808**.

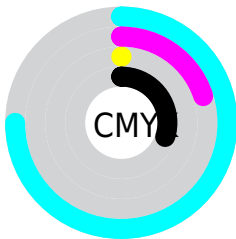
Distribution



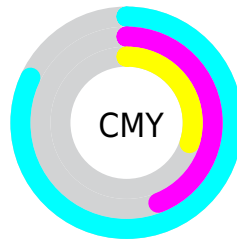
- Red (18%)
- Green (56%)
- Blue (70%)



- Red (18%)
- Yellow (40%)
- Blue (70%)



- Cyan (75%)
- Magenta (20%)
- Yellow (0%)
- Black (30%)



- Cyan (82%)
- Magenta (44%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.7911, 23.1182, 45.5914 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 18.7911, 23.1182, 45.5914 by changing the saturation by 10% instead.

■ 18.7911, 23.1182,
45.5914

■ 18.7911, 23.1182,
45.5914

238.2534,
268.3315, 385.3932

■ 11.6225, 14.6808,
31.5772

■ 40.9004, 48.5873,
84.9350

■ 6.5576, 8.5957,
20.7766

■ 56.5719, 66.3879,
111.1014

■ 3.2308, 4.4784,
12.7712

■ 75.8084, 88.0783,
142.1557

■ 1.2770, 1.9446,
7.1423

■ 98.9752, 114.0429,
178.5163

■ 0.1659, 0.5750,
3.4714

■ 126.4378,
144.6661, 220.6019

■ 0.0000, 0.0000,
1.3401

158.5614,

■ 0.0000, 0.0000,

180.3324, 268.8308

0.0943

195.7115,
221.4260, 323.6218

■ 0.0000, 0.0000,
0.0000

■ 18.7911, 23.1182,
45.5914

■ 18.7911, 23.1182,
45.5914

■ 17.4653, 21.3938,
45.3289

■ 20.4796, 25.0764,
45.8808

■ 16.4546, 19.8768,
45.0894

■ 22.5657, 27.2858,
46.1973

■ 15.9944, 19.1312,
44.9697

■ 25.0827, 29.7645,
46.5431

■ 28.0595, 32.5278,
46.9196

■ 31.5225, 35.5900,
47.3281

■ 35.4958, 38.9641,
47.7700

■ 40.0021, 42.6621,
48.2463

■ 45.0625, 46.6955,
48.7581

■ 50.6970, 51.0752,
49.3065

Harmonies

Analogous

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



16.6790, 23.1182, 35.9468



18.7911, 23.1182, 45.5914



21.9593, 23.1182, 49.5348

Triad

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



18.7911, 23.1182, 45.5914



29.3465, 23.1182, 25.2115



18.8128, 23.1182, 11.9689

Complementary

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



18.7911, 23.1182, 45.5914



21.7774, 15.5410, 4.3356

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.



21.9870, 23.1182, 10.4866



18.7911, 23.1182, 45.5914



28.2835, 23.1182, 16.7989

Square

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



18.7911, 23.1182, 45.5914



28.2671, 23.1182, 36.0341



25.4956, 23.1182, 11.9931



16.6906, 23.1182, 16.7464

Rectangle

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



18.7911, 23.1182, 45.5914



24.3220, 23.1182, 47.7672



25.4956, 23.1182, 11.9931



19.7806, 23.1182, 11.1350

Sweetspot

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



18.7919, 23.1190, 45.5920



58.7597, 65.9153, 86.0071



18.4688, 32.9855, 13.0752



12.6140, 14.2549, 19.0089



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.



18.7919, 23.1190, 45.5920



30.3615, 36.8754, 81.8986



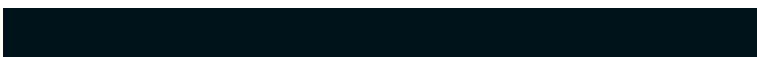
11.7060, 8.9472, 43.2300



8.5442, 9.2347, 10.8385



11.4982, 13.7967, 32.1940



0.4070, 0.5246, 1.0280

Inverse Universe

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



24.1817, 13.2957, 26.8836



41.3942, 20.9007, 42.6769



29.2632, 30.5127, 6.8309



8.7499, 8.6067, 10.1814



16.0384, 7.9329, 15.8940



0.5275, 0.2587, 0.6204

Previews

White Background



This preview shows how the XYZ color 18.7911, 23.1182, 45.5914 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 18.7911, 23.1182, 45.5914 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

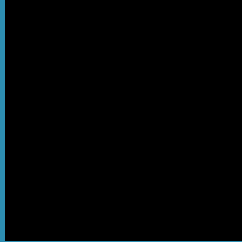
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 18.7911, 23.1182, 45.5914

Background



This preview shows how black text looks on a background with the XYZ color 18.7911, 23.1182, 45.5914.

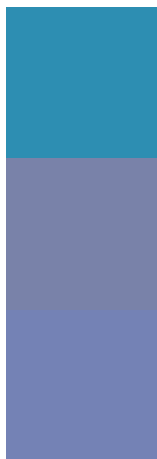


This preview shows how white text looks on a background with the XYZ color 18.7911, 23.1182,

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

18.7911, 23.1182, 45.5914

Protanopia

23.0292, 22.8948, 40.7415

Deuteranopia

23.5256, 23.0145, 46.9184



Tritanopia

16.7907, 23.2117, 35.4936

Trichromacy



Original Color

18.7911, 23.1182, 45.5914

Protanomaly

20.4857, 22.3559, 42.2651

Deuteranomaly

20.9798, 22.5191, 46.4209

Tritanomaly

17.5441, 23.2907, 39.1682

Monochromacy



Original Color

18.7911, 23.1182, 45.5914

Achromatopsia

16.9083, 17.7888, 19.3720

Achromatomaly

16.4354, 19.0099, 27.2291

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.7911, 23.1182, 45.5914 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(45, 142, 178)` looks like.

```
.text, #text, p{  
    color:rgb(45, 142, 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(45, 142, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 142, 178) }
```

Border

The CSS property to change the border of an element to XYZ 18.7911, 23.1182, 45.5914 is called "border". The border property can be set on classes, ids or directly on the HTML element.

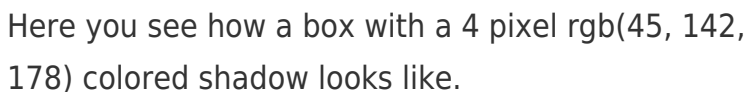
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(45, 142, 178) }
```


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

```
.border{ border-color:rgb(45, 142, 178) }
```

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



Here you see how a box with a 4 pixel `rgb(45, 142, 178)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 142, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 142, 178);  
box-shadow:4px 4px 4px 4px rgb(45, 142,  
178) }
```

Background

The CSS property to change the background color of an element to XYZ 18.7911, 23.1182, 45.5914 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 142, 178) }
```

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

```
.background{ background-color: rgb(45, 142,  
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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