

Converting Colors

XYZ(18.2503, 22.9390, 45.1732)

Have a look what the booklet for
XYZ(18.2503, 22.9390, 45.1732)
contains.

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Color

**XYZ(18.1739, 22.8116,
45.0402)**

Conversions

Conversions Part 1

Format	Color
Hex	1F8EB1
RGB	31, 142, 177
RGB Percent	12%, 56%, 69%
CMY	0.8784, 0.4431, 0.3059
CMYK	0.82, 0.20, 0.00, 0.31
HSL	194°, 70%, 41%
HSV	194°, 82%, 69%
XYZ	18.1739, 22.8116, 45.0402
YIQ	112.8010, -77.3910, -12.6470

Conversions

Conversions Part 2

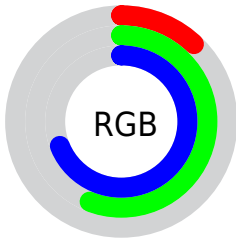
Format	Color
R_{YB}	31, 94, 177
Decimal	2068145
CIE _{Lab}	54.88, -17.45, -26.82
CIE _{LCh}	55, 31.996, 236.941
Yxy	22.8116, 0.2113, 0.2652
Android (android.graphics.Color)	4280258225 (0xFF1F8EB1)
YUV	112.8010, 31.6501, -71.7395
Hunter-Lab	47.7615, -15.6609, -22.4788

Details

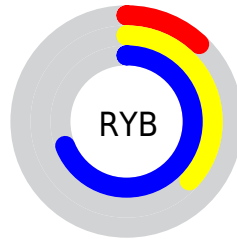
The XYZ color **18.1739, 22.8116, 45.0402** is a dark color, and the websafe version is hex **0099CC**. A complement of this color would be **20.3282, 13.3443, 2.8017**, and the grayscale version is **15.5643, 16.3749, 17.8323**.

A 20% lighter version of the original color is **39.9274, 48.1878, 84.2876**, and **7.4652, 9.1095, 20.4336** is the 20% darker color. If you saturate the color by 10%, you get **17.1604, 21.3700, 44.8158**, and if you desaturate by 10%, it is **19.5055, 24.4537, 45.2874**.

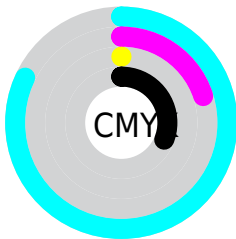
Distribution



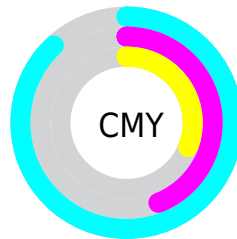
- Red (12%)
- Green (56%)
- Blue (69%)



- Red (12%)
- Yellow (37%)
- Blue (69%)



- Cyan (82%)
- Magenta (20%)
- Yellow (0%)
- Black (31%)



- Cyan (88%)
- Magenta (44%)
- Yellow (31%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.1739, 22.8116, 45.0402 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 18.1739, 22.8116, 45.0402 by changing the saturation by 10% instead.

■ 18.1739, 22.8116,
45.0402

■ 18.1739, 22.8116,
45.0402

■ 234.8761,
266.7559, 383.1012

■ 11.1754, 14.4545,
31.1459

■ 39.8612, 48.0838,
84.0998

■ 6.2531, 8.4374,
20.4506

■ 55.2806, 65.7676,
110.1022

■ 3.0417, 4.3761,
12.5357

■ 74.2378, 87.3291,
140.9778

■ 1.1758, 1.8861,
6.9827

■ 97.0979, 113.1527,
177.1450

■ 0.0872, 0.5400,
3.3730

■ 124.2265,
143.6228, 219.0224

■ 0.0000, 0.0000,
1.2881

■ 155.9888,

■ 0.0000, 0.0000,

179.1238, 267.0285

0.0520

192.7502,
220.0400, 321.5820

■ 0.0000, 0.0000,
0.0000

■ 18.1739, 22.8116,
45.0402

■ 18.1739, 22.8116,
45.0402

■ 17.1604, 21.3700,
44.8158

■ 19.5055, 24.4537,
45.2874

■ 16.5394, 20.3814,
44.6577

■ 21.1952, 26.3161,
45.5578

■ 23.2792, 28.4181,
45.8537

■ 25.7884, 30.7763,
46.1767

■ 28.7507, 33.4051,
46.5280

■ 32.1914, 36.3182,
46.9089

■ 36.1339, 39.5279,
47.3206

■ 40.6001, 43.0457,
47.7642

■ 45.6103, 46.8827,
48.2408

Harmonies

Analogous

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



16.1581, 22.8116, 34.7676



18.1739, 22.8116, 45.0402



21.3203, 22.8116, 49.8578

Triad

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



18.1739, 22.8116, 45.0402



29.2206, 22.8116, 25.8936



18.7394, 22.8116, 11.1892

Complementary

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



18.1739, 22.8116, 45.0402



20.3282, 13.3443, 2.8017

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.



22.0473, 22.8116, 10.0056



18.1739, 22.8116, 45.0402



28.3394, 22.8116, 17.0056

Square

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



18.1739, 22.8116, 45.0402



27.9071, 22.8116, 37.0730



25.6142, 22.8116, 11.8122



16.4588, 22.8116, 15.6430

Rectangle

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



18.1739, 22.8116, 45.0402



23.7280, 22.8116, 48.5661



25.6142, 22.8116, 11.8122



19.7566, 22.8116, 10.4589

Sweetspot

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



18.1747, 22.8124, 45.0408



55.7440, 63.4509, 83.8045



17.2443, 32.1187, 10.3036



11.6213, 13.3625, 18.1110



84.5950, 89.0005, 96.9216



16.2198, 17.0645, 18.5832

Same Dimension

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



18.1747, 22.8124, 45.0408



29.5771, 36.3712, 79.9568



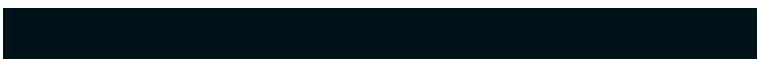
10.6881, 7.8393, 42.5452



8.5666, 9.2794, 10.8459



12.0320, 14.8644, 32.3720



0.4204, 0.5513, 1.0325

Inverse Universe

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



23.5047, 12.2810, 26.7235



40.2385, 19.8865, 42.2900



27.4779, 27.6437, 5.1849



8.7612, 8.6112, 10.2408



16.3079, 8.0407, 17.3130



0.5342, 0.2614, 0.6558

Previews

White Background



This preview shows how the XYZ color 18.1739, 22.8116, 45.0402 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 18.1739, 22.8116, 45.0402 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 18.1739, 22.8116, 45.0402

Background



This preview shows how black text looks on a background with the XYZ color 18.1739, 22.8116, 45.0402.

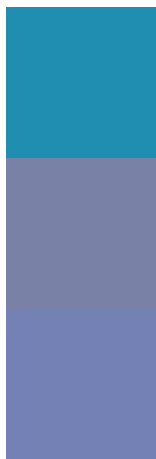


This preview shows how white text looks on a background with the XYZ color 18.1739, 22.8116,

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

18.1739, 22.8116, 45.0402

Protanopia

22.7105, 22.5555, 39.7159

Deuteranopia

23.1587, 22.6406, 46.3295



Tritanopia

16.2112, 22.6851, 35.4225

Trichromacy



Original Color

18.1739, 22.8116, 45.0402

Protanomaly

19.9003, 22.0652, 41.7382

Deuteranomaly

20.3179, 22.1897, 45.8600

Tritanomaly

16.8121, 22.6980, 38.6170

Monochromacy



Original Color

18.1739, 22.8116, 45.0402

Achromatopsia

15.6958, 16.5132, 17.9829

Achromatomaly

15.2189, 18.0319, 25.9709

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.1739, 22.8116, 45.0402 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(31, 142, 177)` looks like.

```
.text, #text, p{  
    color:rgb(31, 142, 177)  
}
```

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(31, 142, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 142, 177) }
```

Border

The CSS property to change the border of an element to XYZ 18.1739, 22.8116, 45.0402 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(31, 142, 177) }
```


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

```
.border{ border-color:rgb(31, 142, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(31, 142, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 142, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 142, 177);  
box-shadow:4px 4px 4px 4px rgb(31, 142,  
177) }
```

Background

The CSS property to change the background color of an element to XYZ 18.1739, 22.8116, 45.0402 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 142, 177) }
```

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

```
.background{ background-color: rgb(31, 142,  
177) }
```

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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