

Converting Colors

XYZ(18.9665, 22.4838, 48.6876)

Have a look what the booklet for
XYZ(18.9665, 22.4838, 48.6876)
contains.

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Color

**XYZ(18.9665, 22.4838,
48.6876)**

Conversions

Conversions Part 1

Format	Color
Hex	2D8BB8
RGB	45, 139, 184
RGB Percent	18%, 55%, 72%
CMY	0.8235, 0.4549, 0.2784
CMYK	0.76, 0.24, 0.00, 0.28
HSL	199°, 61%, 45%
HSV	199°, 76%, 72%
XYZ	18.9665, 22.4838, 48.6876
YIQ	116.0240, -70.4690, -5.9330

Conversions

Conversions Part 2

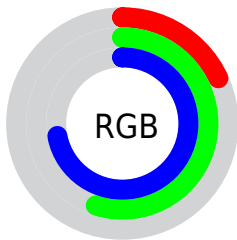
Format	Color
R_{YB}	45, 101, 184
Decimal	2984888
CIE _{Lab}	54.54, -11.86, -31.32
CIE _{LCh}	55, 33.492, 249.269
Yxy	22.4838, 0.2104, 0.2494
Android (android.graphics.Color)	4281174968 (0xFF2D8BB8)
YUV	116.0240, 33.5122, -62.2880
Hunter-Lab	47.4171, -11.5812, -27.6867

Details

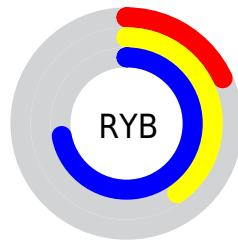
The XYZ color **18.9665, 22.4838, 48.6876** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **23.8981, 17.6937, 4.6392**, and the grayscale version is **16.5249, 17.3855, 18.9328**.

A 20% lighter version of the original color is **41.0082, 47.3055, 89.4076**, and **7.6691, 8.7835, 22.7639** is the 20% darker color. If you saturate the color by 10%, you get **17.4872, 20.4757, 48.3784**, and if you desaturate by 10%, it is **20.8471, 24.7693, 49.0301**.

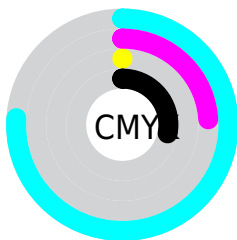
Distribution



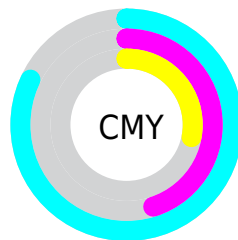
- Red (18%)
- Green (55%)
- Blue (72%)



- Red (18%)
- Yellow (40%)
- Blue (72%)



- Cyan (76%)
- Magenta (24%)
- Yellow (0%)
- Black (28%)



- Cyan (82%)
- Magenta (45%)
- Yellow (28%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.9665, 22.4838, 48.6876 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 18.9665, 22.4838, 48.6876 by changing the saturation by 10% instead.

■ 18.9665, 22.4838,
48.6876

■ 18.9665, 22.4838,
48.6876

239.2054,
265.0625, 398.0982

■ 11.7499, 14.2128,
34.0079

■ 41.1948, 47.5443,
89.6035

■ 6.6446, 8.2688,
22.6222

■ 56.9372, 65.1027,
116.6767

■ 3.2852, 4.2674,
14.1122

■ 76.2523, 86.5256,
148.7182

■ 1.3063, 1.8243,
8.0591

■ 99.5055, 112.1974,
186.1464

■ 0.1879, 0.5022,
4.0445

■ 127.0620,
142.5027, 229.3800

■ 0.0000, 0.0000,
1.6498

159.2873,

■ 0.0000, 0.0000,

177.8257, 278.8375

0.3260

196.5466,
218.5508, 334.9374

■ 0.0000, 0.0000,
0.0000

■ 18.9665, 22.4838,
48.6876

■ 18.9665, 22.4838,
48.6876

■ 17.4872, 20.4757,
48.3784

■ 20.8471, 24.7693,
49.0301

■ 16.3553, 18.7151,
48.0982

■ 23.1680, 27.3522,
49.4063

■ 15.9135, 17.9840,
47.9804

■ 25.9661, 30.2530,
49.8187

■ 29.2732, 33.4892,
50.2691

■ 33.1184, 37.0768,
50.7589

■ 37.5284, 41.0304,
51.2896

■ 42.5283, 45.3640,
51.8625

■ 48.1412, 50.0906,
52.4790

■ 54.3893, 55.2223,
53.1402

Harmonies

Analogous

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



16.3557, 22.4838, 39.6444



18.9665, 22.4838, 48.6876



22.5280, 22.4838, 50.3597

Triad

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



18.9665, 22.4838, 48.6876



29.1254, 22.4838, 21.3656



17.2045, 22.4838, 11.9238

Complementary

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



18.9665, 22.4838, 48.6876



23.8981, 17.6937, 4.6392

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.



20.2527, 22.4838, 9.4534



18.9665, 22.4838, 48.6876



27.3172, 22.4838, 13.7808

Square

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



18.9665, 22.4838, 48.6876



28.6790, 22.4838, 32.3611



23.9688, 22.4838, 10.0187



15.4223, 22.4838, 17.9968

Rectangle

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



18.9665, 22.4838, 48.6876



25.0123, 22.4838, 46.7026



23.9688, 22.4838, 10.0187



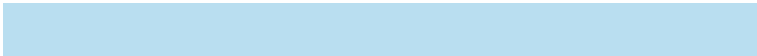
18.1000, 22.4838, 10.7366

Sweetspot

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



18.9673, 22.4846, 48.6882



61.6691, 68.6977, 92.2143



20.0274, 35.5611, 15.2647



12.7128, 14.2789, 19.8077



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988

Same Dimension

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



18.9673, 22.4846, 48.6882



30.2081, 34.8451, 87.3383



11.9554, 8.4608, 46.3509



9.0149, 9.7071, 11.4780



11.0337, 12.5270, 33.0895



0.4425, 0.5488, 1.1843

Inverse Universe

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



25.3664, 13.9321, 25.7790



43.2812, 21.8980, 39.5213



32.5568, 35.0112, 7.5255



9.2539, 9.1119, 10.6844



16.1830, 8.0469, 14.1162



0.5975, 0.2945, 0.6400

Previews

White Background



This preview shows how the XYZ color 18.9665, 22.4838, 48.6876 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 18.9665, 22.4838, 48.6876 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

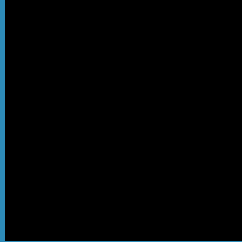
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 18.9665, 22.4838, 48.6876

Background



This preview shows how black text looks on a background with the XYZ color 18.9665, 22.4838, 48.6876.

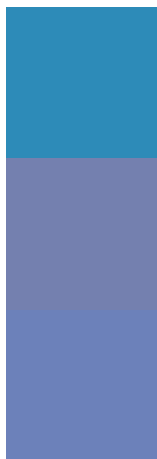


This preview shows how white text looks on a background with the XYZ color 18.9665, 22.4838,

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

18.9665, 22.4838, 48.6876

Protanopia

22.6595, 22.2465, 43.6572

Deuteranopia

22.8975, 22.4338, 49.5777



Tritanopia

16.0491, 22.3855, 34.9275

Trichromacy



Original Color

18.9665, 22.4838, 48.6876

Protanomaly

20.5036, 21.8905, 45.2641

Deuteranomaly

20.8908, 22.2091, 49.0847

Tritanomaly

16.8444, 22.2479, 39.4829

Monochromacy



Original Color

18.9665, 22.4838, 48.6876

Achromatopsia

16.6002, 17.4647, 19.0191

Achromatomaly

16.2318, 18.5120, 27.9170

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.9665, 22.4838, 48.6876 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, 139, 184)` looks like.

```
.text, #text, p{  
    color:rgb(45, 139, 184)  
}
```

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, 139, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 139, 184) }
```

Border

The CSS property to change the border of an element to XYZ 18.9665, 22.4838, 48.6876 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, 139, 184) }
```


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

```
.border{ border-color:rgb(45, 139, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 139, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 139, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 139, 184);  
box-shadow:4px 4px 4px 4px rgb(45, 139,  
184) }
```

Background

The CSS property to change the background color of an element to XYZ 18.9665, 22.4838, 48.6876 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 139, 184) }
```

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

```
.background{ background-color: rgb(45, 139,  
184) }
```

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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