

Converting Colors

XYZ(18.3825, 22.5096, 45.3564)

Have a look what the booklet for
XYZ(18.3825, 22.5096, 45.3564)
contains.

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Color

**XYZ(18.3688, 22.4628,
45.4871)**

Conversions

Conversions Part 1

Format	Color
Hex	2A8CB2
RGB	42, 140, 178
RGB Percent	16%, 55%, 70%
CMY	0.8353, 0.4510, 0.3020
CMYK	0.76, 0.21, 0.00, 0.30
HSL	197°, 62%, 43%
HSV	197°, 76%, 70%
XYZ	18.3688, 22.4628, 45.4871
YIQ	115.0300, -70.6060, -8.9580

Conversions

Conversions Part 2

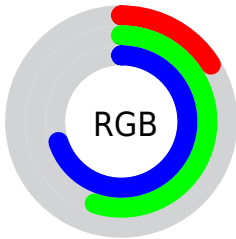
Format	Color
R _Y B	42, 99, 178
Decimal	2788530
CIE Lab	54.51, -14.86, -27.93
CIE LCh	55, 31.642, 241.984
Yxy	22.4628, 0.2128, 0.2602
Android (android.graphics.Color)	4280978610 (0xFF2A8CB2)
YUV	115.0300, 31.0442, -64.0473
Hunter-Lab	47.3949, -13.7601, -23.7269

Details

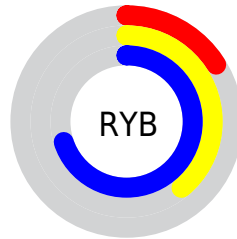
The XYZ color **18.3688, 22.4628, 45.4871** is a dark color, and the websafe version is hex **3399CC**. A complement of this color would be **21.6476, 15.3708, 4.0173**, and the grayscale version is **16.2301, 17.0753, 18.5950**.

A 20% lighter version of the original color is **40.3274, 47.7122, 84.9258**, and **7.3578, 8.7930, 20.7115** is the 20% darker color. If you saturate the color by 10%, you get **17.0856, 20.7470, 45.2240**, and if you desaturate by 10%, it is **20.0096, 24.4125, 45.7774**.

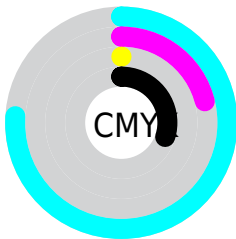
Distribution



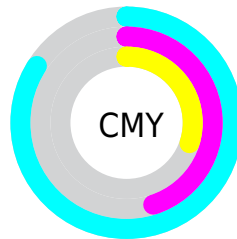
- Red (16%)
- Green (55%)
- Blue (70%)



- Red (16%)
- Yellow (39%)
- Blue (70%)



- Cyan (76%)
- Magenta (21%)
- Yellow (0%)
- Black (30%)



- Cyan (84%)
- Magenta (45%)
- Yellow (30%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 18.3688, 22.4628, 45.4871 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 18.3688, 22.4628, 45.4871 by changing the saturation by 10% instead.

■ 18.3688, 22.4628,
45.4871

■ 18.3688, 22.4628,
45.4871

235.9472,
264.9537, 384.9603

■ 11.3164, 14.1974,
31.4955

■ 40.1899, 47.5097,
84.7771

■ 6.3489, 8.2581,
20.7149

■ 55.6894, 65.0600,
110.9125

■ 3.1010, 4.2605,
12.7265

■ 74.7351, 86.4740,
141.9330

■ 1.2074, 1.8203,
7.1120

■ 97.6927, 112.1361,
178.2571

■ 0.1122, 0.4998,
3.4527

■ 124.9273,
142.4307, 220.3034

■ 0.0000, 0.0000,
1.3302

156.8044,

■ 0.0000, 0.0000,

177.7423, 268.4903

0.0863

193.6892,
218.4551, 323.2364

■ 0.0000, 0.0000,
0.0000

■ 18.3688, 22.4628,
45.4871

■ 18.3688, 22.4628,
45.4871

■ 17.0856, 20.7470,
45.2240

■ 20.0096, 24.4125,
45.7774

■ 16.1061, 19.2356,
44.9839

■ 22.0442, 26.6142,
46.0951

■ 15.7896, 18.7217,
44.9014

■ 24.5065, 29.0864,
46.4425

■ 27.4259, 31.8449,
46.8211

■ 30.8293, 34.9040,
47.2322

■ 34.7412, 38.2772,
47.6771

■ 39.1846, 41.9766,
48.1570

■ 44.1807, 46.0139,
48.6729

■ 49.7499, 50.4001,
49.2260

Harmonies

Analogous

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



16.1792, 22.4628, 36.0318



18.3688, 22.4628, 45.4871



21.5819, 22.4628, 48.9378

Triad

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



18.3688, 22.4628, 45.4871



28.7316, 22.4628, 23.8030



18.0095, 22.4628, 11.5731

Complementary

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



18.3688, 22.4628, 45.4871



21.6476, 15.3708, 4.0173

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.



21.1202, 22.4628, 9.9068



18.3688, 22.4628, 45.4871



27.5201, 22.4628, 15.6734

Square

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



18.3688, 22.4628, 45.4871



27.7944, 22.4628, 34.5695



24.6380, 22.4628, 11.1763



15.9881, 22.4628, 16.5400

Rectangle

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



18.3688, 22.4628, 45.4871



23.9449, 22.4628, 46.7836



24.6380, 22.4628, 11.1763



18.9501, 22.4628, 10.6800

Sweetspot

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



18.3696, 22.4636, 45.4877



57.9369, 65.0708, 85.8875



18.2608, 32.8876, 12.6448



12.3012, 13.9484, 18.9662



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.



18.3696, 22.4636, 45.4877



29.6611, 35.6198, 81.6932



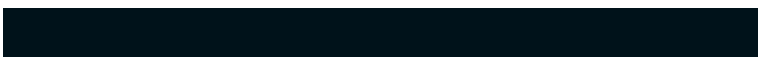
11.4227, 8.5698, 43.1720



8.5380, 9.2221, 10.8364



11.3526, 13.5055, 32.1455



0.4033, 0.5172, 1.0268

Inverse Universe

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



23.9224, 13.0152, 26.0631



41.0052, 20.6092, 41.0470



29.0989, 30.2733, 6.5010



8.7467, 8.6054, 10.1647



15.9649, 7.9035, 15.5070



0.5256, 0.2580, 0.6106

Previews

White Background



This preview shows how the XYZ color 18.3688, 22.4628, 45.4871 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 18.3688, 22.4628, 45.4871 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

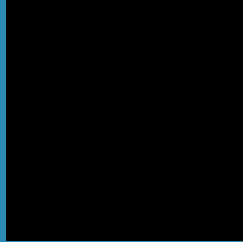
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 18.3688, 22.4628, 45.4871

Background



This preview shows how black text looks on a background with the XYZ color 18.3688, 22.4628, 45.4871.

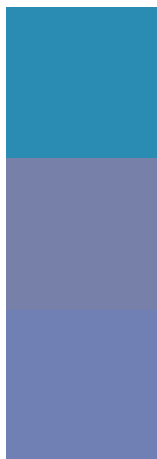


This preview shows how white text looks on a background with the XYZ color 18.3688, 22.4628,

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

18.3688, 22.4628, 45.4871

Protanopia

22.4884, 22.2249, 40.6407

Deuteranopia

22.7418, 22.2193, 46.8062



Tritanopia

16.1710, 22.4484, 34.9332

Trichromacy



Original Color

18.3688, 22.4628, 45.4871

Protanomaly

20.0120, 21.7052, 42.1645

Deuteranomaly

20.4200, 21.8241, 46.3162

Tritanomaly

16.9242, 22.5319, 38.5791

Monochromacy



Original Color

18.3688, 22.4628, 45.4871

Achromatopsia

16.2955, 17.1441, 18.6699

Achromatomaly

15.8196, 18.3250, 26.7481

CSS Examples

Text

The CSS property to change the color of the text to XYZ 18.3688, 22.4628, 45.4871 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(42, 140, 178)` looks like.

```
.text, #text, p{  
  color:rgb(42, 140, 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(42, 140, 178) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(42, 140, 178) }
```

Border

The CSS property to change the border of an element to XYZ 18.3688, 22.4628, 45.4871 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(42, 140, 178) }
```


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

```
.border{ border-color:rgb(42, 140, 178) }
```

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

Here you see how a box with a 4 pixel rgb(42, 140, 178) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(42, 140, 178); -webkit-box-  
shadow:4px 4px 4px 4px rgb(42, 140, 178);  
box-shadow:4px 4px 4px 4px rgb(42, 140,  
178) }
```

Background

The CSS property to change the background color of an element to XYZ 18.3688, 22.4628, 45.4871 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(42, 140, 178) }
```

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

```
.background{ background-color: rgb(42, 140,  
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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