

Converting Colors

XYZ(22.7042, 38.0947, 30.1154)

Have a look what the booklet for
XYZ(22.7042, 38.0947, 30.1154)
contains.

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Color

**XYZ(22.7850, 38.2302,
30.2230)**

Conversions

Conversions Part 1

Format	Color
Hex	00BD8A
RGB	0, 189, 138
RGB Percent	0%, 74%, 54%
CMY	0.9999, 0.2588, 0.4588
CMYK	1.00, 0.00, 0.27, 0.26
HSL	164°, 100%, 37%
HSV	164°, 100%, 74%
XYZ	22.7850, 38.2302, 30.2230
YIQ	126.6750, -96.2730, -55.9290

Conversions

Conversions Part 2

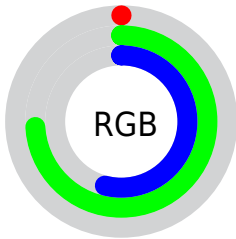
Format	Color
RYB	0, 109, 189
Decimal	48522
CIELab	68.19, -52.28, 14.69
CIELCh	68, 54.309, 164.305
Yxy	38.2302, 0.2497, 0.4190
Android (android.graphics.Color)	4278238602 (0xFF00BD8A)
YUV	126.6750, 5.5832, -111.0940
Hunter-Lab	61.8306, -42.4250, 14.3002

Details

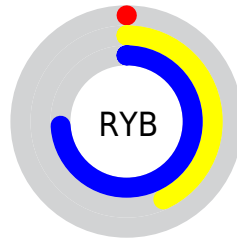
The XYZ color **22.7850, 38.2302, 30.2230** is a dark color, and the websafe version is hex **00CC99**. A complement of this color would be **21.5851, 11.0587, 4.1306**, and the grayscale version is **20.0684, 21.1135, 22.9926**.

A 20% lighter version of the original color is **47.5072, 72.3140, 61.3233**, and **10.2865, 17.7548, 12.1174** is the 20% darker color. If you saturate the color by 10%, you get **22.7856, 38.2315, 30.2225**, and if you desaturate by 10%, it is **23.4309, 38.5204, 32.2275**.

Distribution



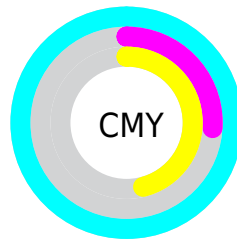
- Red (0%)
- Green (74%)
- Blue (54%)



- Red (0%)
- Yellow (43%)
- Blue (74%)



- Cyan (100%)
- Magenta (0%)
- Yellow (27%)
- Black (26%)





- Cyan (100%)
- Magenta (26%)
- Yellow (46%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 22.7850, 38.2302, 30.2230 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 22.7850, 38.2302, 30.2230 by changing the saturation by 10% instead.


 22.7850, 38.2302,
30.2230


 22.7850, 38.2302,
30.2230


259.1748,
338.6064, 317.1821


 14.5547, 26.1614,
19.7544


 47.5093, 72.4608,
61.0798


 8.5917, 16.9444,
12.0344


 64.7340, 95.3915,
82.3052


 4.5308, 10.1949,
6.6443


 85.6875, 122.7115,
107.9532

 2.0066, 5.5284,
3.1656

 110.7352,
154.8053, 138.4424

 0.6377, 2.5605,
1.1798

 140.2424,
192.0573, 174.1913

 0.0000, 0.9068,
0.0000

 174.5745,

 0.0000, 0.0000,

234.8519, 215.6186

0.0000

214.0968,
283.5735, 263.1427

■ 22.7850, 38.2302,
30.2230

■ 22.7850, 38.2302,
30.2230

■ 22.7856, 38.2315,
30.2225

■ 23.4309, 38.5204,
32.2275

■ 24.3522, 38.9497,
34.3357

■ 25.6443, 39.5680,
36.5543

■ 27.3547, 40.3999,
38.8865

■ 29.5236, 41.4661,
41.3354

■ 32.1863, 42.7847,
43.9038

■ 35.3748, 44.3722,
46.5942

■ 39.1181, 46.2434,
49.4091

■ 43.4430, 48.4124,
52.3508

Harmonies

Analogous

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



26.0913, 38.2302, 16.3436



22.7850, 38.2302, 30.2230



22.7100, 38.2302, 54.2705

Triad

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



22.7850, 38.2302, 30.2230



40.5185, 38.2302, 105.2971



49.3066, 38.2302, 16.7772

Complementary

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



22.7850, 38.2302, 30.2230



21.5851, 11.0587, 4.1306

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.



54.5482, 38.2302, 31.1163



22.7850, 38.2302, 30.2230



48.9643, 38.2302, 84.8138

Square

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



22.7850, 38.2302, 30.2230



32.0996, 38.2302, 104.7533



54.4140, 38.2302, 55.5879



40.9310, 38.2302, 10.9022

Rectangle

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



22.7850, 38.2302, 30.2230



24.4577, 38.2302, 73.9017



54.4140, 38.2302, 55.5879



51.5476, 38.2302, 20.4560

Sweetspot

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



22.7860, 38.2317, 30.2239



63.0531, 79.3175, 83.2072



19.6962, 37.1688, 6.1366



13.0205, 16.7883, 17.4517



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438

Same Dimension

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



22.7860, 38.2317, 30.2239



40.7020, 68.4279, 53.5712



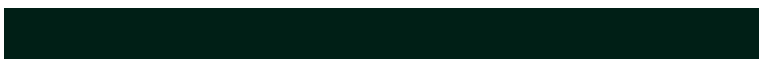
19.7844, 24.8716, 51.9039



9.6957, 10.7644, 11.6470



15.3635, 25.7357, 20.5088



0.6277, 1.0185, 0.9400

Inverse Universe

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



21.5851, 11.0587, 4.1306



38.5717, 19.7706, 6.9471



21.7788, 12.4025, 1.2464



9.6331, 9.5775, 10.4569



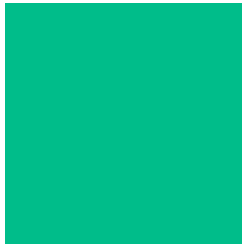
14.5502, 7.4512, 2.9248



0.5983, 0.3032, 0.2641

Previews

White Background



This preview shows how the XYZ color 22.7850, 38.2302, 30.2230 looks on a white background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 22.7850, 38.2302, 30.2230 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 ✓ Pass

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

XYZ 22.7850, 38.2302, 30.2230

Background



This preview shows how black text looks on a background with the XYZ color 22.7850, 38.2302, 30.2230.



This preview shows how white text looks on a background with the XYZ color 22.7850, 38.2302, 30.2230.

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

22.7850, 38.2302, 30.2230

Protanopia

35.1904, 37.6727, 25.4955

Deuteranopia

38.2480, 37.5320, 32.0166



Tritanopia

28.4743, 38.0574, 58.0696

Trichromacy



Original Color

22.7850, 38.2302, 30.2230



Protanomaly

25.9149, 35.3555, 26.9312



Deuteranomaly

27.0029, 34.6955, 30.8649



Tritanomaly

25.7151, 37.8075, 46.4997

Monochromacy



Original Color

22.7850, 38.2302, 30.2230



Achromatopsia

20.1725, 21.2231, 23.1119



Achromatomaly

18.3964, 25.2007, 25.3674

CSS Examples

Text

The CSS property to change the color of the text to XYZ 22.7850, 38.2302, 30.2230 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(0, 189, 138)` looks like.

```
.text, #text, p{  
    color:rgb(0, 189, 138)  
}
```

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(0, 189, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 189, 138) }
```

Border

The CSS property to change the border of an element to XYZ 22.7850, 38.2302, 30.2230 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(0, 189, 138) }
```


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

```
.border{ border-color:rgb(0, 189, 138) }
```

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

Here you see how a box with a 4 pixel rgb(0, 189, 138) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 189, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 189, 138);  
box-shadow:4px 4px 4px 4px rgb(0, 189,  
138) }
```

Background

The CSS property to change the background color of an element to XYZ 22.7850, 38.2302, 30.2230 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 189, 138) }
```

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

```
.background{ background-color: rgb(0, 189,  
138) }
```

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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