

Converting Colors

XYZ(20.4156, 33.3217, 29.9563)

Have a look what the booklet for
XYZ(20.4156, 33.3217, 29.9563)
contains.

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Color

**XYZ(20.3823, 33.3084,
29.7810)**

Conversions

Conversions Part 1

Format	Color
Hex	00B18B
RGB	0, 177, 139
RGB Percent	0%, 69%, 55%
CMY	0.9999, 0.3059, 0.4549
CMYK	1.00, 0.00, 0.21, 0.31
HSL	167°, 100%, 35%
HSV	167°, 100%, 69%
XYZ	20.3823, 33.3084, 29.7810
YIQ	119.7450, -93.2940, -49.3420

Conversions

Conversions Part 2

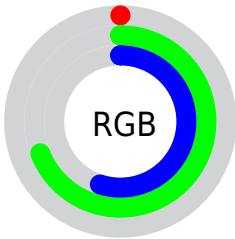
Format	Color
RYB	0, 99, 177
Decimal	45451
CIELab	64.41, -47.32, 8.81
CIELCh	64, 48.130, 169.449
Yxy	33.3084, 0.2442, 0.3990
Android (android.graphics.Color)	4278235531 (0xFF00B18B)
YUV	119.7450, 9.4927, -105.0164
Hunter-Lab	57.7134, -37.9587, 9.8049

Details

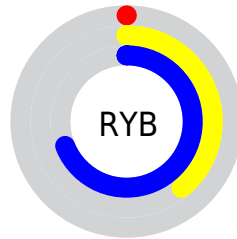
The XYZ color **20.3823, 33.3084, 29.7810** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **18.4824, 9.4878, 2.6922**, and the grayscale version is **17.7649, 18.6900, 20.3534**.

A 20% lighter version of the original color is **43.6566, 65.0843, 60.1308**, and **8.8861, 14.8872, 11.8564** is the 20% darker color. If you saturate the color by 10%, you get **20.3828, 33.3095, 29.7807**, and if you desaturate by 10%, it is **20.9098, 33.5485, 31.2815**.

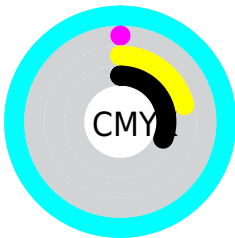
Distribution



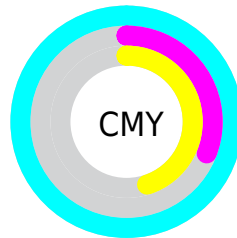
- Red (0%)
- Green (69%)
- Blue (55%)



- Red (0%)
- Yellow (39%)
- Blue (69%)



- Cyan (100%)
- Magenta (0%)
- Yellow (21%)
- Black (31%)





- Cyan (100%)
- Magenta (31%)
- Yellow (45%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.3823, 33.3084, 29.7810 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 20.3823, 33.3084, 29.7810 by changing the saturation by 10% instead.


 20.3823, 33.3084,
29.7810

 20.3823, 33.3084,
29.7810


246.7716,
317.0371, 315.0578


 12.7831, 22.3628,
19.4218


 43.5563, 64.8567,
60.3726


 7.3553, 14.1237,
11.7956


 59.8618, 86.2282,
81.4420


 3.7336, 8.2068,
6.4838


 79.8001, 111.8438,
106.9186

 1.5526, 4.2275,
3.0679

 103.7366,
142.0879, 137.2209

 0.3612, 1.8016,
1.1294

 132.0367,
177.3449, 172.7674

 0.0000, 0.4882,
0.0000

 165.0656,

 0.0000, 0.0000,

217.9992, 213.9767

0.0000

203.1888,
264.4351, 261.2673

■ 20.3823, 33.3084,
29.7810

■ 20.3823, 33.3084,
29.7810

■ 20.3828, 33.3095,
29.7807

■ 20.9098, 33.5485,
31.2815

■ 21.6653, 33.9042,
32.8427

■ 22.7345, 34.4205,
34.4701

■ 24.1574, 35.1179,
36.1659

■ 25.9680, 36.0142,
37.9322

■ 28.1964, 37.1245,
39.7709

■ 30.8694, 38.4629,
41.6836

■ 34.0118, 40.0421,
43.6721

■ 37.6463, 41.8739,
45.7378

Harmonies

Analogous

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



22.6576, 33.3084, 16.8361



20.3823, 33.3084, 29.7810



20.7797, 33.3084, 50.3537

Triad

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



20.3823, 33.3084, 29.7810



36.2562, 33.3084, 84.8152



41.0305, 33.3084, 14.4721

Complementary

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



20.3823, 33.3084, 29.7810



18.4824, 9.4878, 2.6922

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.



45.7944, 33.3084, 25.0883



20.3823, 33.3084, 29.7810



42.7744, 33.3084, 66.7831

Square

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



20.3823, 33.3084, 29.7810



29.3045, 33.3084, 87.5155



46.4751, 33.3084, 43.6327



34.1356, 33.3084, 10.3655

Rectangle

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



20.3823, 33.3084, 29.7810



22.5273, 33.3084, 65.9502



46.4751, 33.3084, 43.6327



42.9741, 33.3084, 17.1721

Sweetspot

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



20.3832, 33.3097, 29.7818



55.0148, 68.7482, 74.4698



16.5355, 31.8645, 5.2793



11.4787, 14.6764, 15.8309



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.



20.3832, 33.3097, 29.7818



36.4189, 59.6202, 52.8881



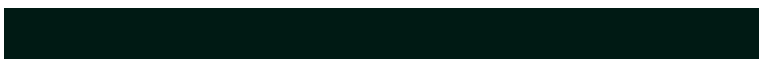
15.5071, 18.3161, 44.3146



8.6630, 9.5997, 10.4848



14.7905, 24.1422, 21.6972



0.4849, 0.7674, 0.7856

Inverse Universe

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



18.4824, 9.4878, 2.6922



33.0331, 16.9645, 4.4698



19.2797, 11.6424, 1.2314



8.5686, 8.5341, 9.2265



13.4093, 6.8813, 2.0494



0.4433, 0.2251, 0.1773

Previews

White Background



This preview shows how the XYZ color 20.3823, 33.3084, 29.7810 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 20.3823, 33.3084, 29.7810 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

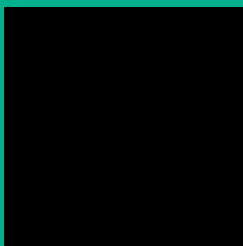
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

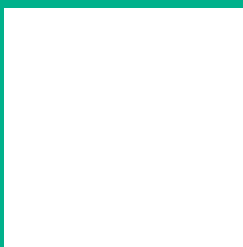
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.3823, 33.3084, 29.7810

Background



This preview shows how black text looks on a background with the XYZ color 20.3823, 33.3084, 29.7810.

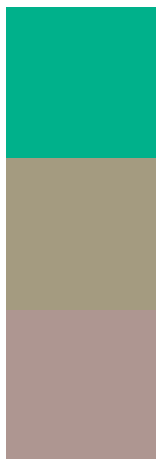


This preview shows how white text looks on a background with the XYZ color 20.3823, 33.3084,

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

20.3823, 33.3084, 29.7810

Protanopia

30.9275, 32.8937, 25.1411

Deuteranopia

33.4727, 32.8557, 31.3656



Tritanopia

24.8412, 33.4129, 51.0390

Trichromacy



Original Color

20.3823, 33.3084, 29.7810



Protanomaly

22.9710, 30.8034, 26.5647



Deuteranomaly

24.0843, 30.5043, 30.6051



Tritanomaly

22.6711, 33.0544, 42.2310

Monochromacy



Original Color

20.3823, 33.3084, 29.7810



Achromatopsia

17.8524, 18.7821, 20.4537



Achromatomaly

16.3361, 22.1186, 23.4870

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.3823, 33.3084, 29.7810 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, 177, 139)` looks like.

```
.text, #text, p{  
    color:rgb(0, 177, 139)  
}
```

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, 177, 139) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 177, 139) }
```

Border

The CSS property to change the border of an element to XYZ 20.3823, 33.3084, 29.7810 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, 177, 139) }
```


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

```
.border{ border-color:rgb(0, 177, 139) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 177, 139)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 177, 139); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 177, 139);  
box-shadow:4px 4px 4px 4px rgb(0, 177,  
139) }
```

Background

The CSS property to change the background color of an element to XYZ 20.3823, 33.3084, 29.7810 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 177, 139) }
```

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

```
.background{ background-color: rgb(0, 177,  
139) }
```

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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