

Converting Colors

XYZ(20.3628, 33.1862, 28.8484)

Have a look what the booklet for
XYZ(20.3628, 33.1862, 28.8484)
contains.

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Color

**XYZ(20.4870, 33.3790,
29.0299)**

Conversions

Conversions Part 1

Format	Color
Hex	12B189
RGB	18, 177, 137
RGB Percent	7%, 69%, 54%
CMY	0.9293, 0.3059, 0.4627
CMYK	0.90, 0.00, 0.23, 0.31
HSL	165°, 82%, 38%
HSV	165°, 90%, 69%
XYZ	20.4870, 33.3790, 29.0299
YIQ	124.8990, -81.9240, -46.1480

Conversions

Conversions Part 2

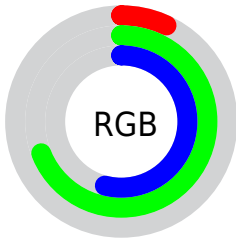
Format	Color
RYB	18, 109, 177
Decimal	1225097
CIELab	64.47, -47.05, 10.01
CIELCh	64, 48.103, 167.987
Yxy	33.3790, 0.2471, 0.4027
Android (android.graphics.Color)	4279415177 (0xFF12B189)
YUV	124.8990, 5.9658, -93.7504
Hunter-Lab	57.7746, -37.8089, 10.6508

Details

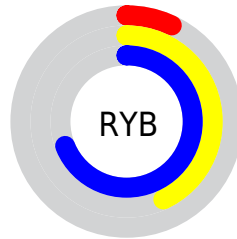
The XYZ color **20.4870, 33.3790, 29.0299** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **19.1129, 10.0863, 4.9449**, and the grayscale version is **19.4614, 20.4749, 22.2972**.

A 20% lighter version of the original color is **43.7541, 65.1600, 58.9863**, and **8.8033, 14.8540, 11.4200** is the 20% darker color. If you saturate the color by 10%, you get **19.9291, 33.1284, 27.3710**, and if you desaturate by 10%, it is **21.2821, 33.7520, 30.7702**.

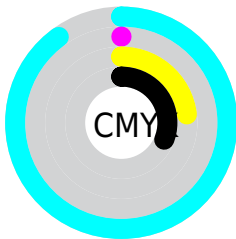
Distribution



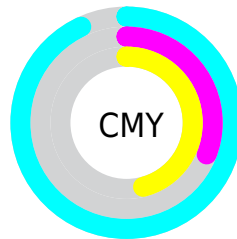
- Red (7%)
- Green (69%)
- Blue (54%)



- Red (7%)
- Yellow (43%)
- Blue (69%)



- Cyan (90%)
- Magenta (0%)
- Yellow (23%)
- Black (31%)



- Cyan (93%)
- Magenta (31%)
- Yellow (46%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 20.4870, 33.3790, 29.0299 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 20.4870, 33.3790, 29.0299 by changing the saturation by 10% instead.

■ 20.4870, 33.3790,
29.0299

■ 20.4870, 33.3790,
29.0299

247.3231,
317.3541, 311.4214

■ 12.8599, 22.4169,
18.8577

■ 43.7299, 64.9668,
59.1673

■ 7.4084, 14.1636,
11.3917

■ 60.0764, 86.3613,
79.9696

■ 3.7674, 8.2345,
6.2135

■ 80.0601, 112.0021,
105.1523

■ 1.5714, 4.2454,
2.9044

■ 104.0462,
142.2736, 135.1340

■ 0.3737, 1.8118,
1.0460

■ 132.4002,
177.5601, 170.3332

■ 0.0000, 0.4945,
0.0000

■ 165.4875,

■ 0.0000, 0.0000,

218.2461, 211.1685

0.0000

203.6733,
264.7160, 258.0584

■ 20.4870, 33.3790,
29.0299

■ 20.4870, 33.3790,
29.0299

■ 19.9291, 33.1284,
27.3710

■ 21.2821, 33.7520,
30.7702

■ 19.9197, 33.1241,
27.3419

■ 22.3941, 34.2861,
32.5944

■ 23.8641, 35.0031,
34.5057

■ 25.7260, 35.9206,
36.5065

■ 28.0097, 37.0539,
38.5991

■ 30.7423, 38.4171,
40.7855

■ 33.9484, 40.0227,
43.0675

■ 37.6509, 41.8826,
45.4469

■ 41.8711, 44.0077,
47.9256

Harmonies

Analogous

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



22.8941, 33.3790, 16.4594



20.4870, 33.3790, 29.0299



20.7542, 33.3790, 49.3124

Triad

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



20.4870, 33.3790, 29.0299



35.9790, 33.3790, 85.4613



41.4060, 33.3790, 14.8705

Complementary

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



20.4870, 33.3790, 29.0299



19.1129, 10.0863, 4.9449

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.



46.0096, 33.3790, 25.8755



20.4870, 33.3790, 29.0299



42.5786, 33.3790, 67.9720

Square

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



20.4870, 33.3790, 29.0299



29.0569, 33.3790, 87.2771



46.4673, 33.3790, 44.7938



34.5532, 33.3790, 10.4902

Rectangle

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



20.4870, 33.3790, 29.0299



22.4179, 33.3790, 64.9301



46.4673, 33.3790, 44.7938



43.3080, 33.3790, 17.6886

Sweetspot

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



20.4879, 33.3803, 29.0307



56.3335, 69.4400, 73.9919



17.7205, 32.4627, 5.9050



11.8228, 14.8560, 15.7471



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.



20.4879, 33.3803, 29.0307



35.5809, 59.2850, 48.4754



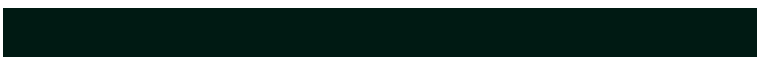
17.5502, 22.0319, 44.9240



8.6495, 9.5943, 10.4138



14.4573, 24.0089, 19.9428



0.4767, 0.7641, 0.7422

Inverse Universe

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



19.1129, 10.0863, 4.9449



33.2301, 17.0433, 5.5070



19.6130, 12.1344, 1.8815



8.5812, 8.5392, 9.2929



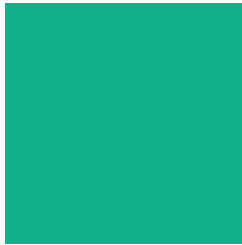
13.4948, 6.9155, 2.4995



0.4485, 0.2271, 0.2044

Previews

White Background



This preview shows how the XYZ color 20.4870, 33.3790, 29.0299 looks on a white background.

Color Contrast Check

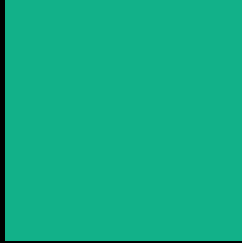
Large Text (above 18pt) WCAG AA × Fail

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 20.4870, 33.3790, 29.0299 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

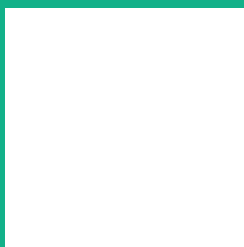
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.4870, 33.3790, 29.0299

Background



This preview shows how black text looks on a background with the XYZ color 20.4870, 33.3790, 29.0299.



This preview shows how white text looks on a background with the XYZ color 20.4870, 33.3790,

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

20.4870, 33.3790, 29.0299

Protanopia

30.7971, 32.8416, 24.4545

Deuteranopia

33.5435, 32.9098, 30.5709



Tritanopia

25.0072, 33.4985, 51.0468

Trichromacy



Original Color

20.4870, 33.3790, 29.0299



Protanomaly

23.6820, 31.1856, 25.8903



Deuteranomaly

24.8497, 30.9163, 29.8570



Tritanomaly

23.0077, 33.2279, 42.2468

Monochromacy



Original Color

20.4870, 33.3790, 29.0299



Achromatopsia

19.4927, 20.5079, 22.3331



Achromatomaly

17.7735, 23.5099, 24.3700

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.4870, 33.3790, 29.0299 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(18, 177, 137)` looks like.

```
.text, #text, p{  
    color:rgb(18, 177, 137)  
}
```

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(18, 177, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(18, 177, 137) }
```

Border

The CSS property to change the border of an element to XYZ 20.4870, 33.3790, 29.0299 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(18, 177, 137) }
```


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

```
.border{ border-color:rgb(18, 177, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(18, 177, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(18, 177, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(18, 177, 137);  
box-shadow:4px 4px 4px 4px rgb(18, 177,  
137) }
```

Background

The CSS property to change the background color of an element to XYZ 20.4870, 33.3790, 29.0299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(18, 177, 137) }
```

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

```
.background{ background-color: rgb(18, 177,  
137) }
```

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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