

Converting Colors

XYZ(20.0028, 32.9880, 22.1427)

Have a look what the booklet for
XYZ(20.0028, 32.9880, 22.1427)
contains.

XYZ(20.0028, 32.9880, 22.1427)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(20.0028, 32.9880,
22.1427)**

Conversions

Conversions Part 1

Format	Color
Hex	31B075
RGB	49, 176, 117
RGB Percent	19%, 69%, 46%
CMY	0.8078, 0.3098, 0.5412
CMYK	0.72, 0.00, 0.34, 0.31
HSL	152°, 56%, 44%
HSV	152°, 72%, 69%
XYZ	20.0028, 32.9880, 22.1427
YIQ	131.3010, -56.7530, -45.2730

Conversions

Conversions Part 2

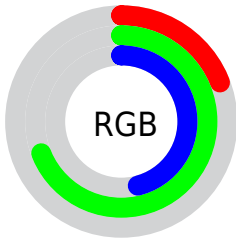
Format	Color
RYB	49, 132, 176
Decimal	3256437
CIELab	64.15, -48.07, 20.58
CIELCh	64, 52.290, 156.824
Yxy	32.9880, 0.2662, 0.4391
Android (android.graphics.Color)	4281446517 (0xFF31B075)
YUV	131.3010, -7.0504, -72.1780
Hunter-Lab	57.4352, -38.3458, 17.3468

Details

The XYZ color **20.0028, 32.9880, 22.1427** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **21.7106, 12.5100, 15.4587**, and the grayscale version is **21.7207, 22.8519, 24.8857**.

A 20% lighter version of the original color is **42.9824, 64.5871, 47.7373**, and **8.0029, 14.3364, 7.8143** is the 20% darker color. If you saturate the color by 10%, you get **18.8541, 32.4499, 19.6884**, and if you desaturate by 10%, it is **21.5266, 33.7164, 24.8352**.

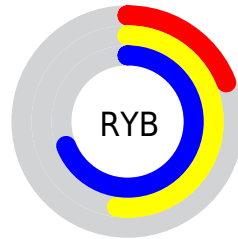
Distribution



Red (19%)

Green (69%)

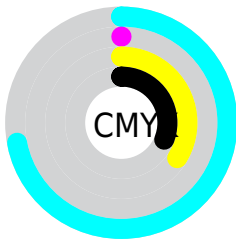
Blue (46%)



Red (19%)

Yellow (52%)

Blue (69%)

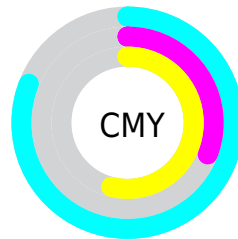


Cyan (72%)

Magenta (0%)

Yellow (34%)

Black (31%)



Cyan (81%)


Magenta (31%)


Yellow (54%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 20.0028, 32.9880, 22.1427 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 20.0028, 32.9880, 22.1427 by changing the saturation by 10% instead.


 20.0028, 32.9880,
22.1427


 20.0028, 32.9880,
22.1427


244.7635,
315.5957, 276.2684


 12.5054, 22.1173,
13.7625


 42.9258, 64.3568,
47.8869


 7.1635, 13.9431,
7.8188


 59.0820, 85.6236,
66.0880


 3.6118, 8.0811,
3.8931


 78.8553, 111.1246,
88.3999

 1.4849, 4.1469,
1.5669

 102.6108,
141.2442, 115.2409

 0.3156, 1.7561,
0.2670

 130.7141,
176.3666, 147.0297

 0.0000, 0.4596,
0.0000

163.5304,

 0.0000, 0.0000,

216.8764, 184.1849

0.0000

201.4251,
263.1580, 227.1249

■ 20.0028, 32.9880,
22.1427

■ 20.0028, 32.9880,
22.1427

■ 18.8541, 32.4499,
19.6884

■ 21.5266, 33.7164,
24.8352

■ 18.0358, 32.0764,
17.4626

■ 23.4585, 34.6494,
27.7708

■ 17.5570, 31.8643,
15.8706

■ 25.8305, 35.8041,
30.9567

■ 28.6707, 37.1951,
34.3994

■ 32.0047, 38.8352,
38.1050

■ 35.8562, 40.7368,
42.0792

■ 40.2473, 42.9110,
46.3277

■ 45.1988, 45.3685,
50.8559

■ 50.7304, 48.1193,
55.6690

Harmonies

Analogous

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



23.5718, 32.9880, 12.1679



20.0028, 32.9880, 22.1427



19.2361, 32.9880, 40.9840

Triad

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



20.0028, 32.9880, 22.1427



33.0763, 32.9880, 93.5178



44.1869, 32.9880, 16.6039

Complementary

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



20.0028, 32.9880, 22.1427



21.7106, 12.5100, 15.4587

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.



47.7209, 32.9880, 31.2883



20.0028, 32.9880, 22.1427



40.6845, 32.9880, 79.4405

Square

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



20.0028, 32.9880, 22.1427



26.0782, 32.9880, 87.9514



46.3475, 32.9880, 54.4732



37.2975, 32.9880, 9.9622

Rectangle

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



20.0028, 32.9880, 22.1427



20.2880, 32.9880, 57.6376



46.3475, 32.9880, 54.4732



45.8523, 32.9880, 20.4822

Sweetspot

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



20.0037, 32.9893, 22.1435



57.8965, 70.3590, 68.9495



22.2975, 34.4787, 8.3858



12.1844, 15.0693, 14.5500



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.



20.0037, 32.9893, 22.1435



33.1853, 58.3880, 33.0906



23.8122, 33.2052, 46.2301



8.5728, 9.5636, 10.0101



12.9112, 23.3904, 11.8011



0.4353, 0.7476, 0.5246

Inverse Universe

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



21.7106, 12.5100, 15.4587



36.4828, 19.0805, 20.3659



19.7435, 12.0200, 4.1854



8.6551, 8.5688, 9.6824



14.2768, 7.2283, 6.6174



0.4788, 0.2393, 0.3639

Previews

White Background



This preview shows how the XYZ color 20.0028, 32.9880, 22.1427 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 20.0028, 32.9880, 22.1427 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

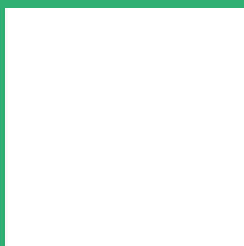
If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 20.0028, 32.9880, 22.1427

Background



This preview shows how black text looks on a background with the XYZ color 20.0028, 32.9880, 22.1427.



This preview shows how white text looks on a background with the XYZ color 20.0028, 32.9880,

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

20.0028, 32.9880, 22.1427

Protanopia

30.1987, 32.4094, 18.8514

Deuteranopia

32.9874, 32.3132, 23.2373



Tritanopia

25.4266, 32.9192, 49.2699

Trichromacy



Original Color

20.0028, 32.9880, 22.1427



Protanomaly

24.1018, 31.2734, 19.8050



Deuteranomaly

25.1938, 30.7397, 22.6947



Tritanomaly

22.9812, 32.7527, 37.4584

Monochromacy



Original Color

20.0028, 32.9880, 22.1427



Achromatopsia

21.5731, 22.6966, 24.7166



Achromatomaly

19.5664, 25.1405, 23.5600

CSS Examples

Text

The CSS property to change the color of the text to XYZ 20.0028, 32.9880, 22.1427 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(49, 176, 117)` looks like.

```
.text, #text, p{  
    color:rgb(49, 176, 117)  
}
```

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(49, 176, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 176, 117) }
```

Border

The CSS property to change the border of an element to XYZ 20.0028, 32.9880, 22.1427 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(49, 176, 117) }
```


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

```
.border{ border-color:rgb(49, 176, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 176, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 176, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 176, 117);  
box-shadow:4px 4px 4px 4px rgb(49, 176,  
117) }
```

Background

The CSS property to change the background color of an element to XYZ 20.0028, 32.9880, 22.1427 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 176, 117) }
```

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

```
.background{ background-color: rgb(49, 176,  
117) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor