

# Converting Colors

XYZ(19.8108, 34.3788, 22.7667)

Have a look what the booklet for  
XYZ(19.8108, 34.3788, 22.7667)  
contains.

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# Color

**XYZ(19.7939, 34.3558,  
22.7276)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00B576
RGB	0, 181, 118
RGB Percent	0%, 71%, 46%
CMY	0.9999, 0.2902, 0.5372
CMYK	1.00, 0.00, 0.35, 0.29
HSL	159°, 100%, 35%
HSV	159°, 100%, 71%
XYZ	19.7939, 34.3558, 22.7276
YIQ	119.6990, -87.6530, -57.9650

# Conversions

## Conversions Part 2

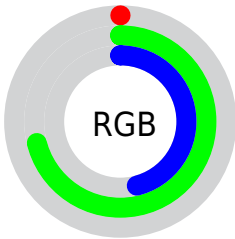
<b>Format</b>	<b>Color</b>
<b>RYB</b>	0, 110, 181
Decimal	46454
CIELab	65.24, -53.82, 21.44
CIELCh	65, 57.932, 158.282
Yxy	34.3558, 0.2575, 0.4469
Android (android.graphics.Color)	4278236534 (0xFF00B576)
YUV	119.6990, -0.8376, -104.9760
Hunter-Lab	58.6138, -42.2947, 18.0399

# Details

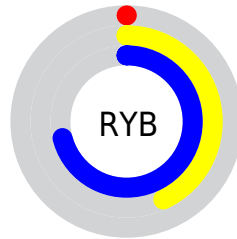
The XYZ color **19.7939, 34.3558, 22.7276** is a dark color, and the websafe version is hex **00CC99**. A complement of this color would be **19.9545, 10.1835, 5.6186**, and the grayscale version is **17.7808, 18.7068, 20.3717**.

A 20% lighter version of the original color is **42.5495, 66.4842, 48.6204**, and **8.6635, 15.6084, 8.1863** is the 20% darker color. If you saturate the color by 10%, you get **19.7944, 34.3570, 22.7270**, and if you desaturate by 10%, it is **20.4333, 34.6416, 24.7787**.

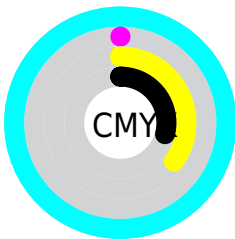
# Distribution



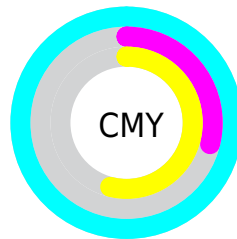
- Red (0%)
- Green (71%)
- Blue (46%)



- Red (0%)
- Yellow (43%)
- Blue (71%)



- Cyan (100%)
- Magenta (0%)
- Yellow (35%)
- Black (29%)




- Cyan (100%)
- Magenta (29%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.7939, 34.3558, 22.7276 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 19.7939, 34.3558, 22.7276 by changing the saturation by 10% instead.





 19.7939, 34.3558,  
22.7276

 19.7939, 34.3558,  
22.7276


243.6521,  
321.7157, 279.3992


 12.3527, 23.1671,  
14.1891


 42.5780, 66.4866,  
48.8632


 7.0583, 14.7169,  
8.1120


 58.6515, 88.1974,  
67.2973

 3.5452, 8.6210,  
4.0779


 78.3333, 114.1844,  
89.8671

 1.4482, 4.4948,  
1.6682

 101.9886,  
144.8320, 116.9910

 0.2902, 1.9540,  
0.3388

 129.9827,  
180.5245, 149.0877

 0.0000, 0.5805,  
0.0000

 162.6811,

 0.0000, 0.0000,

221.6463, 186.5755

0.0000

200.4491,  
268.5819, 229.8732

■ 19.7939, 34.3558,  
22.7276

■ 19.7939, 34.3558,  
22.7276

■ 19.7944, 34.3570,  
22.7270

■ 20.4333, 34.6416,  
24.7787

■ 21.3294, 35.0559,  
26.9742

■ 22.5712, 35.6454,  
29.3213

■ 24.2014, 36.4321,  
31.8243

■ 26.2564, 37.4347,  
34.4873

■ 28.7682, 38.6696,  
37.3139

■ 31.7656, 40.1516,  
40.3076

■ 35.2749, 41.8944,  
43.4719

■ 39.3207, 43.9103,  
46.8099

# Harmonies

## Analogous

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



23.6079, 34.3558, 11.5229



19.7939, 34.3558, 22.7276



19.0993, 34.3558, 44.4995

# Triad

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



19.7939, 34.3558, 22.7276



35.0447, 34.3558, 104.6970



47.0987, 34.3558, 15.3917

# Complementary

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



19.7939, 34.3558, 22.7276



19.9545, 10.1835, 5.6186

# 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.



51.4596, 34.3558, 31.1123



19.7939, 34.3558, 22.7276



43.7584, 34.3558, 86.9474

# Square

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



19.7939, 34.3558, 22.7276



27.0170, 34.3558, 99.2141



50.1421, 34.3558, 57.3442



39.0255, 34.3558, 8.7346



# Rectangle

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



19.7939, 34.3558, 22.7276



20.3610, 34.3558, 63.9893



50.1421, 34.3558, 57.3442



49.1055, 34.3558, 19.4445

# Sweetspot

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



19.7948, 34.3572, 22.7284



56.5947, 71.7620, 71.9075



18.5975, 34.1177, 5.6056



11.7318, 15.2626, 15.0548



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.



19.7948, 34.3572, 22.7284



35.3385, 61.4857, 40.1153



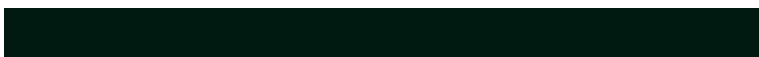
19.8726, 26.3997, 47.7660



8.6145, 9.5803, 10.2295



13.6790, 23.6976, 15.8443



0.4567, 0.7561, 0.6369



# Inverse Universe

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



19.9545, 10.1835, 5.6186



35.6392, 18.1982, 9.5497



19.4525, 10.6155, 1.0241



8.6144, 8.5525, 9.4680



13.7854, 7.0317, 4.0301



0.4620, 0.2325, 0.2754



# Previews

## White Background



This preview shows how the XYZ color 19.7939, 34.3558, 22.7276 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 19.7939, 34.3558, 22.7276 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 19.7939, 34.3558, 22.7276**

## **Background**



This preview shows how black text looks on a background with the XYZ color 19.7939, 34.3558, 22.7276.



This preview shows how white text looks on a background with the XYZ color 19.7939, 34.3558,



# 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

19.7939, 34.3558, 22.7276

### Protanopia

31.3413, 33.7427, 19.0485

### Deuteranopia

34.2967, 33.6812, 24.0955



## Tritanopia

25.9631, 34.5318, 52.3106

# Trichromacy



## Original Color

19.7939, 34.3558, 22.7276



## Protanomaly

22.7452, 31.6304, 20.2357



## Deuteranomaly

23.6356, 30.9588, 23.1423



## Tritanomaly

22.9220, 34.1104, 39.5583

# Monochromacy



## Original Color

19.7939, 34.3558, 22.7276



## Achromatopsia

17.8524, 18.7821, 20.4537



## Achromatomaly

15.9833, 22.2144, 20.8982

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.7939, 34.3558, 22.7276 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, 181, 118)` looks like.

```
.text, #text, p{  
    color:rgb(0, 181, 118)  
}
```

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, 181, 118) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 181, 118) }
```

## Border

The CSS property to change the border of an element to XYZ 19.7939, 34.3558, 22.7276 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, 181, 118) }
```



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

```
.border{ border-color:rgb(0, 181, 118) }
```

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

Here you see how a box with a 4 pixel `rgb(0, 181, 118)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 181, 118); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 181, 118);  
box-shadow:4px 4px 4px 4px rgb(0, 181,  
118) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.7939, 34.3558, 22.7276 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 181, 118) }
```

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

```
.background{ background-color: rgb(0, 181,  
118) }
```

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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