

# Converting Colors

XYZ(19.9354, 31.5658, 28.9881)

Have a look what the booklet for  
XYZ(19.9354, 31.5658, 28.9881)  
contains.

<b>XYZ(19.9997, 31.6801, 29.1055)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	24
<i><b>Color Blindness Simulation</b></i> .....	28
<i><b>CSS Examples</b></i> .....	31

# Color

**XYZ(19.9997, 31.6801,  
29.1055)**

# Conversions

## Conversions Part 1

Format	Color
Hex	22AC8A
RGB	34, 172, 138
RGB Percent	13%, 67%, 54%
CMY	0.8666, 0.3255, 0.4588
CMYK	0.80, 0.00, 0.20, 0.33
HSL	165°, 67%, 40%
HSV	165°, 80%, 67%
XYZ	19.9997, 31.6801, 29.1055
YIQ	126.8620, -71.3340, -39.8300

# Conversions

## Conversions Part 2

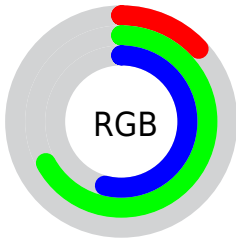
<b>Format</b>	<b>Color</b>
<b>RYB</b>	34, 113, 172
Decimal	2272394
CIELab	63.08, -43.46, 7.51
CIELCh	63, 44.101, 170.201
Yxy	31.6801, 0.2476, 0.3922
Android (android.graphics.Color)	4280462474 (0xFF22AC8A)
YUV	126.8620, 5.4910, -81.4400
Hunter-Lab	56.2851, -35.0727, 8.7402

# Details

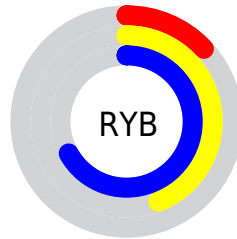
The XYZ color **19.9997, 31.6801, 29.1055** is a dark color, and the websafe version is hex **009966**. A complement of this color would be **18.6299, 10.3330, 6.4831**, and the grayscale version is **20.1261, 21.1742, 23.0587**.

A 20% lighter version of the original color is **42.8563, 62.1914, 59.0356**, and **8.3583, 13.8982, 11.4746** is the 20% darker color. If you saturate the color by 10%, you get **19.2674, 31.3381, 27.5011**, and if you desaturate by 10%, it is **21.0294, 32.1755, 30.7877**.

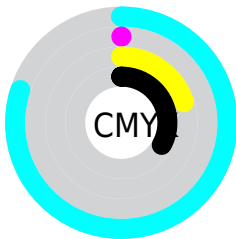
# Distribution



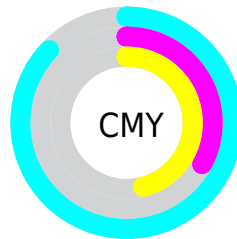
- Red (13%)
- Green (67%)
- Blue (54%)



- Red (13%)
- Yellow (44%)
- Blue (67%)



- Cyan (80%)
- Magenta (0%)
- Yellow (20%)
- Black (33%)



- Cyan (87%)
- Magenta (33%)
- Yellow (46%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 19.9997, 31.6801, 29.1055 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 19.9997, 31.6801, 29.1055 by changing the saturation by 10% instead.





 19.9997, 31.6801,  
29.1055


 19.9997, 31.6801,  
29.1055


244.7471,  
309.6594, 311.7889


 12.5031, 21.1173,  
18.9144


 42.9206, 62.3092,  
59.2888


 7.1619, 13.2098,  
11.4322


 59.0757, 83.1444,  
80.1182


 3.6108, 7.5731,  
6.2405


 78.8475, 108.1724,  
105.3306

 1.4844, 3.8230,  
2.9207

 102.6016,  
137.7776, 135.3447

 0.3152, 1.5751,  
1.0543

 130.7032,  
172.3446, 170.5791

 0.0000, 0.3407,  
0.0000

163.5178,

 0.0000, 0.0000,

212.2576, 211.4522

0.0000

201.4106,  
257.9011, 258.3826

■ 19.9997, 31.6801,  
29.1055

■ 19.9997, 31.6801,  
29.1055

■ 19.2674, 31.3381,  
27.5011

■ 21.0294, 32.1755,  
30.7877

■ 18.7569, 31.1076,  
26.0019

■ 22.3912, 32.8400,  
32.5479

■ 24.1178, 33.6912,  
34.3892

■ 26.2374, 34.7434,  
36.3133

■ 28.7749, 36.0098,  
38.3223

■ 31.7537, 37.5021,  
40.4177

■ 35.1949, 39.2313,  
42.6014

■ 39.1185, 41.2078,  
44.8747

■ 43.5434, 43.4411,  
47.2393

# Harmonies

## Analogous

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



21.9943, 31.6801, 17.1985



19.9997, 31.6801, 29.1055



20.4202, 31.6801, 47.3924

# Triad

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



19.9997, 31.6801, 29.1055



34.3301, 31.6801, 76.4093



38.2289, 31.6801, 14.6387

# Complementary

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



19.9997, 31.6801, 29.1055



18.6299, 10.3330, 6.4831

# 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.



42.4656, 31.6801, 24.1783



19.9997, 31.6801, 29.1055



40.0130, 31.6801, 60.6623

# Square

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



19.9997, 31.6801, 29.1055



28.1654, 31.6801, 79.1098



43.1592, 31.6801, 40.5102



32.1442, 31.6801, 10.9062



# Rectangle

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



19.9997, 31.6801, 29.1055



22.0372, 31.6801, 60.9254



43.1592, 31.6801, 40.5102



39.9491, 31.6801, 17.0853

# Sweetspot

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



20.0006, 31.6813, 29.1062



55.2329, 66.8431, 71.7044



17.4614, 30.8689, 6.5521



11.6040, 14.3265, 15.2991



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

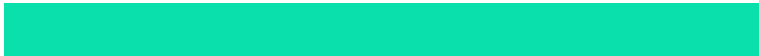


# Same Dimension

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



20.0006, 31.6813, 29.1062



34.2569, 56.5370, 47.7953



17.1242, 21.3540, 42.2503



8.1507, 9.0378, 9.8186



13.9803, 23.1574, 19.4680



0.4089, 0.6522, 0.6468



# Inverse Universe

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



18.6299, 10.3330, 6.4831



31.8331, 16.4546, 6.0638



19.4007, 13.0824, 3.0167



8.0832, 8.0465, 8.7488



12.9957, 6.6608, 2.3568



0.3832, 0.1940, 0.1796



# Previews

## White Background



This preview shows how the XYZ color 19.9997, 31.6801, 29.1055 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 19.9997, 31.6801, 29.1055 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

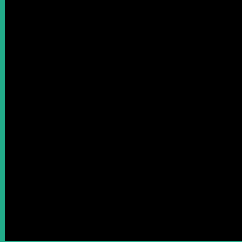
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# XYZ 19.9997, 31.6801, 29.1055

## Background



This preview shows how black text looks on a background with the XYZ color 19.9997, 31.6801, 29.1055.



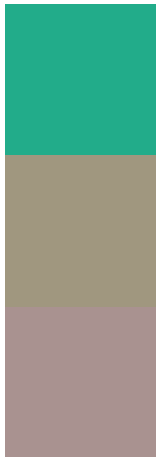
This preview shows how white text looks on a background with the XYZ color 19.9997, 31.6801,



# 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

19.9997, 31.6801, 29.1055

### Protanopia

29.3946, 31.1391, 24.5399

### Deuteranopia

31.6751, 31.0064, 30.7009



## Tritanopia

23.7379, 31.5284, 48.0145

# Trichromacy



## Original Color

19.9997, 31.6801, 29.1055



## Protanomaly

23.4343, 30.0124, 26.0306



## Deuteranomaly

24.3496, 29.3888, 29.9804



## Tritanomaly

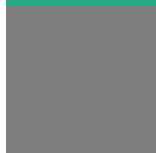
22.1594, 31.4257, 40.4952

# Monochromacy



## Original Color

19.9997, 31.6801, 29.1055



## Achromatopsia

20.1725, 21.2231, 23.1119



## Achromatomaly

18.4334, 23.6108, 25.0585

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 19.9997, 31.6801, 29.1055 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(34, 172, 138)` looks like.

```
.text, #text, p{  
  color:rgb(34, 172, 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(34, 172, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 172, 138) }
```

## Border

The CSS property to change the border of an element to XYZ 19.9997, 31.6801, 29.1055 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(34, 172, 138) }
```



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

```
.border{ border-color:rgb(34, 172, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(34, 172, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 172, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 172, 138);  
box-shadow:4px 4px 4px 4px rgb(34, 172,  
138) }
```

# Background

The CSS property to change the background color of an element to XYZ 19.9997, 31.6801, 29.1055 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 172, 138) }
```

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

```
.background{ background-color: rgb(34, 172,  
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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