

# Converting Colors

XYZ(20.9936, 31.3427, 36.5343)

Have a look what the booklet for  
XYZ(20.9936, 31.3427, 36.5343)  
contains.

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# Color

**XYZ(21.0352, 31.4898,  
36.4220)**

# Conversions

## Conversions Part 1

Format	Color
Hex	22AA9C
RGB	34, 170, 156
RGB Percent	13%, 67%, 61%
CMY	0.8666, 0.3333, 0.3882
CMYK	0.80, 0.00, 0.08, 0.33
HSL	174°, 67%, 40%
HSV	174°, 80%, 67%
XYZ	21.0352, 31.4898, 36.4220
YIQ	127.7400, -76.5620, -33.1860

# Conversions

## Conversions Part 2

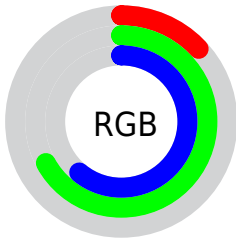
<b>Format</b>	<b>Color</b>
<b>RYB</b>	34, 106, 170
Decimal	2271900
CIELab	62.92, -37.73, -2.77
CIELCh	63, 37.829, 184.195
Yxy	31.4898, 0.2365, 0.3540
Android (android.graphics.Color)	4280461980 (0xFF22AA9C)
YUV	127.7400, 13.9322, -82.2100
Hunter-Lab	56.1158, -31.2912, 0.7988

# Details

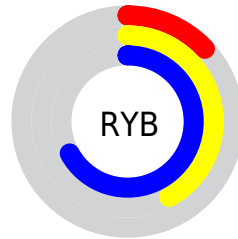
The XYZ color **21.0352, 31.4898, 36.4220** is a dark color, and the websafe version is hex **009999**. A complement of this color would be **17.6842, 9.9045, 3.7774**, and the grayscale version is **20.4016, 21.4641, 23.3744**.

A 20% lighter version of the original color is **44.6549, 62.0491, 70.5959**, and **8.9111, 13.7425, 15.5475** is the 20% darker color. If you saturate the color by 10%, you get **20.4602, 31.2111, 35.6276**, and if you desaturate by 10%, it is **21.8912, 31.9146, 37.2421**.

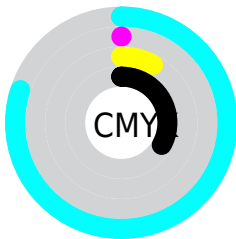
# Distribution



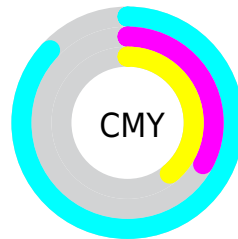
- Red (13%)
- Green (67%)
- Blue (61%)



- Red (13%)
- Yellow (42%)
- Blue (67%)



- Cyan (80%)
- Magenta (0%)
- Yellow (8%)
- Black (33%)




- Cyan (87%)
- Magenta (33%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.0352, 31.4898, 36.4220 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 21.0352, 31.4898, 36.4220 by changing the saturation by 10% instead.





 21.0352, 31.4898,  
36.4220


 21.0352, 31.4898,  
36.4220


250.1937,  
308.7885, 345.8943


 13.2623, 20.9721,  
24.4680


 44.6369, 62.0104,  
70.8593


 7.6877, 13.1036,  
15.4658


 61.1965, 82.7821,  
94.1797


 3.9459, 7.4999,  
8.9967


 81.4158, 107.7406,  
122.1259

 1.6716, 3.7767,  
4.6422

 105.6600,  
137.2702, 155.1166

 0.4384, 1.5494,  
1.9839

 134.2945,  
171.7554, 193.5702

 0.0000, 0.3231,  
0.5453

167.6847,

 0.0000, 0.0000,

211.5806, 237.9054

0.0000

206.1960,  
257.1302, 288.5406

■ 21.0352, 31.4898,  
36.4220

■ 21.0352, 31.4898,  
36.4220

■ 20.4602, 31.2111,  
35.6276

■ 21.8912, 31.9146,  
37.2421

■ 20.0839, 31.0339,  
34.8529

■ 23.0616, 32.5004,  
38.0875

■ 20.0837, 31.0338,  
34.8524

■ 24.5779, 33.2644,  
38.9602

■ 26.4672, 34.2203,  
39.8617

■ 28.7537, 35.3808,  
40.7931

■ 31.4598, 36.7574,  
41.7556

■ 34.6060, 38.3606,  
42.7500

■ 38.2117, 40.2003,  
43.7775

■ 42.2948, 42.2860,  
44.8387

# Harmonies

## Analogous

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



21.8105, 31.4898, 23.2843



21.0352, 31.4898, 36.4220



22.4074, 31.4898, 53.0013

# Triad

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



21.0352, 31.4898, 36.4220



35.9001, 31.4898, 63.7967



34.4906, 31.4898, 14.4478

# Complementary

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



21.0352, 31.4898, 36.4220



17.6842, 9.9045, 3.7774

# 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.



38.9722, 31.4898, 20.5954



21.0352, 31.4898, 36.4220



39.8498, 31.4898, 48.3028

# Square

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



21.0352, 31.4898, 36.4220



30.6666, 31.4898, 71.4465



41.0340, 31.4898, 32.2372



29.2055, 31.4898, 12.9435



# Rectangle

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



21.0352, 31.4898, 36.4220



24.4603, 31.4898, 63.1024



41.0340, 31.4898, 32.2372



36.1600, 31.4898, 15.9306

# Sweetspot

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



21.0361, 31.4910, 36.4227



54.8016, 65.5313, 74.9761



15.9734, 29.5409, 6.3743



11.8483, 14.4242, 16.5854



82.5889, 86.8899, 94.6231



15.4596, 16.2647, 17.7123

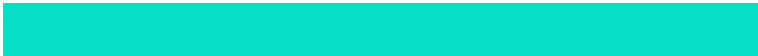


# Same Dimension

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



21.0361, 31.4910, 36.4227



36.6088, 56.3867, 63.5505



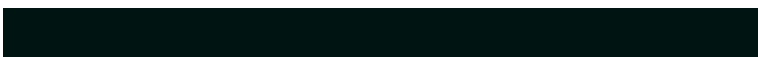
14.3794, 16.1695, 40.3946



7.7138, 8.5185, 9.4788



14.7853, 22.8329, 25.6999



0.3689, 0.5592, 0.6737



# Inverse Universe

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



17.6842, 9.9045, 3.7774



30.4193, 15.7964, 2.7284



20.2061, 15.3400, 3.4102



7.5613, 7.5544, 8.0072



12.2825, 6.3217, 1.0333

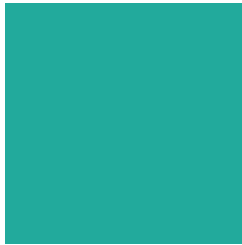


0.3082, 0.1576, 0.0745



# Previews

## White Background



This preview shows how the XYZ color 21.0352, 31.4898, 36.4220 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 21.0352, 31.4898, 36.4220 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

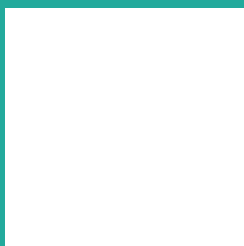
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 21.0352, 31.4898, 36.4220**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.0352, 31.4898, 36.4220.



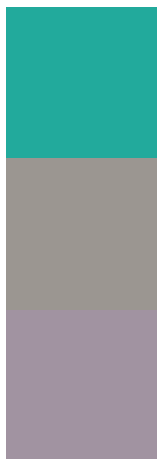
This preview shows how white text looks on a background with the XYZ color 21.0352, 31.4898,



# 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

21.0352, 31.4898, 36.4220

### Protanopia

29.5347, 30.8256, 31.1813

### Deuteranopia

31.5647, 31.0177, 38.0416



## Tritanopia

23.2906, 31.2978, 47.9935

# Trichromacy



**Original Color**

21.0352, 31.4898, 36.4220

**Protanomaly**

24.0373, 29.6634, 32.8925

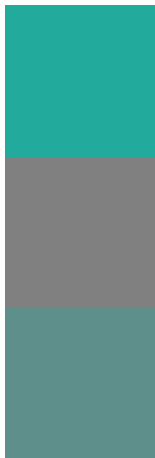
**Deuteranomaly**

25.0496, 29.5907, 37.1922

**Tritanomaly**

22.2516, 31.1356, 43.3651

# Monochromacy



**Original Color**

21.0352, 31.4898, 36.4220

**Achromatopsia**

20.5175, 21.5861, 23.5072

**Achromatomaly**

19.0260, 23.8596, 27.6473

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.0352, 31.4898, 36.4220 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, 170, 156)` looks like.

```
.text, #text, p{  
    color:rgb(34, 170, 156)  
}
```

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, 170, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(34, 170, 156) }
```

## Border

The CSS property to change the border of an element to XYZ 21.0352, 31.4898, 36.4220 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, 170, 156) }
```



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

```
.border{ border-color:rgb(34, 170, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(34, 170, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(34, 170, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(34, 170, 156);  
box-shadow:4px 4px 4px 4px rgb(34, 170,  
156) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.0352, 31.4898, 36.4220 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(34, 170, 156) }
```

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

```
.background{ background-color: rgb(34, 170,  
156) }
```

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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