

# Converting Colors

XYZ(24.3506, 48.3626, 42.8326)

Have a look what the booklet for  
XYZ(24.3506, 48.3626, 42.8326)  
contains.

<b>XYZ(31.1667, 51.7561, 42.9976)</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(31.1667, 51.7561,  
42.9976)**

# Conversions

## Conversions Part 1

Format	Color
Hex	00D8A3
RGB	0, 216, 163
RGB Percent	0%, 85%, 64%
CMY	0.9999, 0.1529, 0.3608
CMYK	1.00, 0.00, 0.25, 0.15
HSL	165°, 100%, 42%
HSV	165°, 100%, 85%
XYZ	31.1667, 51.7561, 42.9976
YIQ	145.3740, -111.7230, -62.2750

# Conversions

## Conversions Part 2

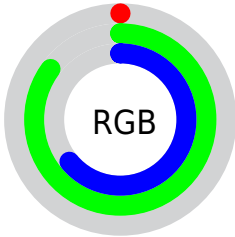
Format	Color
<a href="#">RYB</a>	<a href="#">0, 123, 216</a>
Decimal	<a href="#">55459</a>
CIELab	<a href="#">77.13, -56.65, 13.85</a>
CIElCh	<a href="#">77, 58.321, 166.267</a>
Yxy	<a href="#">51.7561, 0.2475, 0.4110</a>
Android (android.graphics.Color)	<a href="#">4278245539 (0xFF00D8A3)</a>
YUV	<a href="#">145.3740, 8.6896, -127.4930</a>
Hunter-Lab	<a href="#">71.9417, -48.5680, 14.9232</a>

# Details

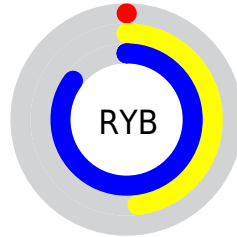
The XYZ color **31.1667, 51.7561, 42.9976** is a dark color, and the websafe version is hex **00CC99**. The color can be described as dark washed spring green. A complement of this color would be **28.9634, 14.8573, 4.7124**, and the grayscale version is **27.0677, 28.4773, 31.0118**.

A 20% lighter version of the original color is **54.3587, 79.6461, 78.8379**, and **15.4400, 26.2893, 19.2995** is the 20% darker color. If you saturate the color by 10%, you get **31.1673, 51.7578, 42.9960**, and if you desaturate by 10%, it is **31.9756, 52.1183, 45.5684**.

# Distribution



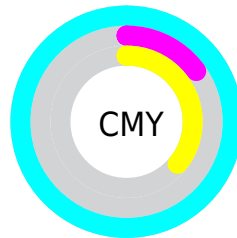
- Red (0%)
- Green (85%)
- Blue (64%)



- Red (0%)
- Yellow (48%)
- Blue (85%)



- Cyan (100%)
- Magenta (0%)
- Yellow (25%)
- Black (15%)




- Cyan (100%)
- Magenta (15%)
- Yellow (36%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 31.1667, 51.7561, 42.9976 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 31.1667, 51.7561, 42.9976 by changing the saturation by 10% instead.





 31.1667, 51.7561,  
42.9976


 31.1667, 51.7561,  
42.9976


299.1188,  
393.4943, 374.5228


 20.8783, 36.8107,  
29.5518


 60.8765, 92.7714,  
80.9936


 13.1470, 25.0610,  
19.2495


 81.0286, 119.6102,  
106.3808


 7.6075, 16.1225,  
11.6721


 105.1992,  
151.1821, 136.5857

 3.8945, 9.6109,  
6.4010

 133.7538,  
187.8717, 172.0267

 1.6427, 5.1417,  
3.0177

 167.0577,  
230.0634, 213.1224

 0.4200, 2.3307,  
1.1037

205.4763,

 0.0000, 0.7899,

278.1414, 260.2913

0.0000

249.3748,  
332.4902, 313.9519

■ 0.0000, 0.0000,  
0.0000

■ 31.1667, 51.7561,  
42.9976

■ 31.1667, 51.7561,  
42.9976

■ 31.1673, 51.7578,  
42.9960

■ 31.9756, 52.1183,  
45.5684

■ 33.1638, 52.6726,  
48.2609

■ 34.8522, 53.4822,  
51.0832

■ 37.1070, 54.5815,  
54.0396

■ 39.9846, 55.9994,  
57.1340

■ 43.5339, 57.7612,  
60.3696

■ 47.7992, 59.8897,  
63.7499

■ 52.8208, 62.4056,  
67.2776

■ 58.6361, 65.3280,  
70.9558

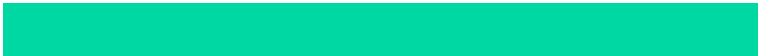
# Harmonies

## Analogous

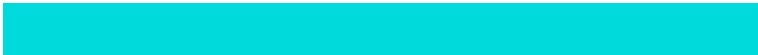
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



35.2702, 51.7561, 23.6720



31.1667, 51.7561, 42.9976



31.3481, 51.7561, 75.3622

# Triad

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



31.1667, 51.7561, 42.9976



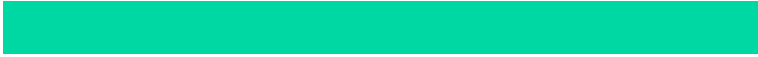
55.4459, 51.7561, 138.2367



65.5522, 51.7561, 22.6114

# Complementary

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



31.1667, 51.7561, 42.9976



28.9634, 14.8573, 4.7124

# 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.



72.7778, 51.7561, 40.8446



31.1667, 51.7561, 42.9976



66.3674, 51.7561, 110.3500

# Square

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



31.1667, 51.7561, 42.9976



44.2764, 51.7561, 139.5189



73.0969, 51.7561, 72.2232



54.4599, 51.7561, 15.2762

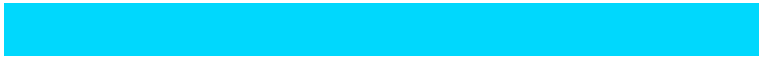


# Rectangle

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



31.1667, 51.7561, 42.9976



33.8521, 51.7561, 101.0383



73.0969, 51.7561, 72.2232



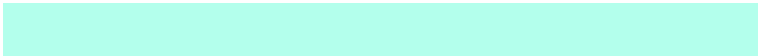
68.5827, 51.7561, 27.2763

# Sweetspot

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



31.1681, 51.7581, 42.9988



69.4083, 87.1136, 92.6862



26.0792, 49.8984, 8.2575



14.2652, 18.3506, 19.3853



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091



# Same Dimension

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



31.1681, 51.7581, 42.9988



45.3213, 75.3445, 62.2693



25.3173, 30.8019, 69.5792



12.6559, 14.0534, 15.2682



18.4919, 30.6521, 25.6839



1.1472, 1.8615, 1.7166



# Inverse Universe

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



28.9634, 14.8573, 4.7124



42.1254, 21.6142, 6.5926



29.6401, 17.2396, 1.7661



12.5470, 12.4703, 13.5547



17.1785, 8.8077, 2.9783

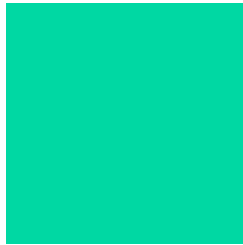


1.0693, 0.5445, 0.3545



# Previews

## White Background



This preview shows how the XYZ color 31.1667, 51.7561, 42.9976 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

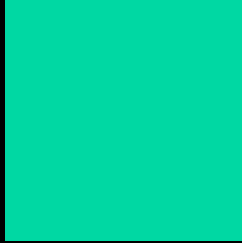
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 31.1667, 51.7561, 42.9976 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

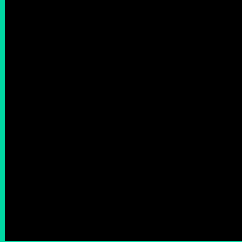
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

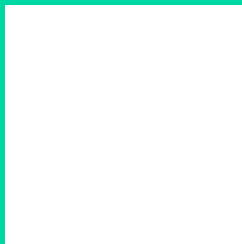
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 31.1667, 51.7561, 42.9976

## Background



This preview shows how black text looks on a background with the XYZ color 31.1667, 51.7561, 42.9976.



This preview shows how white text looks on a background with the XYZ color 31.1667, 51.7561,



# 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

31.1667, 51.7561, 42.9976

### Protanopia

47.7900, 51.0147, 36.1822

### Deuteranopia

51.7152, 50.6543, 45.0818



## **Tritanopia**

38.6007, 51.8132, 79.2006

# Trichromacy



## Original Color

31.1667, 51.7561, 42.9976



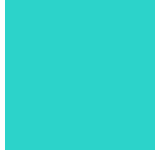
## Protanomaly

35.2419, 47.8026, 38.3797



## Deuteranomaly

36.4202, 46.6078, 43.6359



## Tritanomaly

34.9936, 51.3883, 63.9517

# Monochromacy



## Original Color

31.1667, 51.7561, 42.9976



## Achromatopsia

26.9133, 28.3149, 30.8349



## Achromatomaly

24.6440, 33.6681, 34.9055

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 31.1667, 51.7561, 42.9976 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, 216, 163)` looks like.

```
.text, #text, p{  
    color:rgb(0, 216, 163)  
}
```

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, 216, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(0, 216, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 31.1667, 51.7561, 42.9976 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, 216, 163) }
```



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

```
.border{ border-color:rgb(0, 216, 163) }
```

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

Here you see how a box with a 4 pixel rgb(0, 216, 163) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(0, 216, 163); -webkit-box-  
shadow:4px 4px 4px 4px rgb(0, 216, 163);  
box-shadow:4px 4px 4px 4px rgb(0, 216,  
163) }
```

# Background

The CSS property to change the background color of an element to XYZ 31.1667, 51.7561, 42.9976 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(0, 216, 163) }
```

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

```
.background{ background-color: rgb(0, 216,  
163) }
```

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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