

# Converting Colors

XYZ(30.0198, 48.5582, 42.5509)

Have a look what the booklet for  
XYZ(30.0198, 48.5582, 42.5509)  
contains.

<b>XYZ(30.0070, 48.5523, 42.4403)</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(30.0070, 48.5523,  
42.4403)**

# Conversions

## Conversions Part 1

Format	Color
Hex	20D1A3
RGB	32, 209, 163
RGB Percent	13%, 82%, 64%
CMY	0.8745, 0.1804, 0.3608
CMYK	0.85, 0.00, 0.22, 0.18
HSL	164°, 73%, 47%
HSV	164°, 85%, 82%
XYZ	30.0070, 48.5523, 42.4403
YIQ	150.8330, -90.7260, -51.8300

# Conversions

## Conversions Part 2

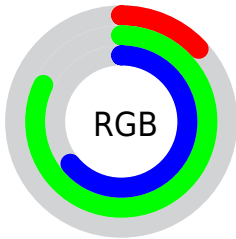
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	32, 134, 209
Decimal	2150819
CIE Lab	75.17, -52.52, 11.10
CIE LCh	75, 53.683, 168.069
Yxy	48.5523, 0.2480, 0.4013
Android (android.graphics.Color)	4280340899 (0xFF20D1A3)
YUV	150.8330, 5.9983, -104.2165
Hunter-Lab	69.6795, -45.0693, 12.6633

# Details

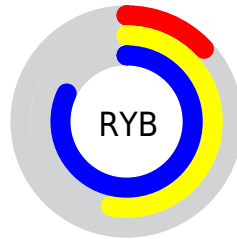
The XYZ color **30.0070, 48.5523, 42.4403** is a dark color, and the websafe version is hex **00CC99**. The color can be described as middle washed spring green. A complement of this color would be **28.1879, 15.1398, 8.6470**, and the grayscale version is **29.3492, 30.8776, 33.6257**.

A 20% lighter version of the original color is **55.0970, 80.0267, 78.8725**, and **14.2605, 23.9302, 18.9063** is the 20% darker color. If you saturate the color by 10%, you get **29.0753, 48.1282, 39.9111**, and if you desaturate by 10%, it is **31.3733, 49.2004, 45.1012**.

# Distribution



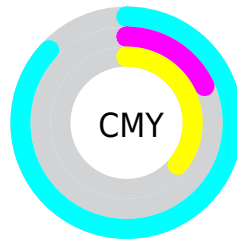
- Red (13%)
- Green (82%)
- Blue (64%)



- Red (13%)
- Yellow (53%)
- Blue (82%)



- Cyan (85%)
- Magenta (0%)
- Yellow (22%)
- Black (18%)



- Cyan (87%)
- Magenta (18%)
- Yellow (36%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 30.0070, 48.5523, 42.4403 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 30.0070, 48.5523, 42.4403 by changing the saturation by 10% instead.



■ 30.0070, 48.5523,  
42.4403

■ 30.0070, 48.5523,  
42.4403

293.8463,  
380.9772, 372.1583

■ 19.9920, 34.2645,  
29.1181

■ 59.0598, 88.0262,  
80.1428

■ 12.4975, 23.0968,  
18.9238

■ 78.8283, 113.9810,  
105.3602

■ 7.1580, 14.6650,  
11.4390

■ 102.5787,  
144.5936, 135.3798

■ 3.6083, 8.5846,  
6.2450

■ 130.6763,  
180.2484, 170.6199

■ 1.4830, 4.4713,  
2.9235

■ 163.4866,  
221.3297, 211.4994

■ 0.3142, 1.9405,  
1.0557

201.3747,

■ 0.0000, 0.5726,

268.2220, 258.4365

0.0000

244.7062,  
321.3097, 311.8500

■ 0.0000, 0.0000,  
0.0000

■ 30.0070, 48.5523,  
42.4403

■ 30.0070, 48.5523,  
42.4403

■ 29.0753, 48.1282,  
39.9111

■ 31.3733, 49.2004,  
45.1012

■ 28.6909, 47.9584,  
38.6149

■ 33.2379, 50.1017,  
47.8948

■ 35.6578, 51.2869,  
50.8262

■ 38.6811, 52.7805,  
53.8989

■ 42.3504, 54.6048,  
57.1162

■ 46.7047, 56.7795,  
60.4811

■ 51.7796, 59.3231,  
63.9965

■ 57.6081, 62.2527,  
67.6652

■ 64.2215, 65.5842,  
71.4898

# Harmonies

## Analogous

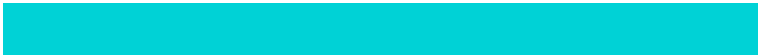
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



33.4593, 48.5523, 24.3036



30.0070, 48.5523, 42.4403



30.4022, 48.5523, 71.5070

# Triad

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



30.0070, 48.5523, 42.4403



52.2654, 48.5523, 122.8830



59.9737, 48.5523, 21.9415

# Complementary

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



30.0070, 48.5523, 42.4403



28.1879, 15.1398, 8.6470

# 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.



66.5627, 48.5523, 37.7824



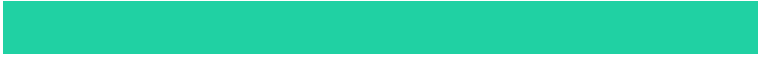
30.0070, 48.5523, 42.4403



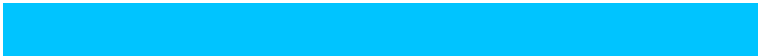
61.6954, 48.5523, 97.9458

# Square

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



30.0070, 48.5523, 42.4403



42.3473, 48.5523, 125.5362



67.2341, 48.5523, 64.8711



50.1685, 48.5523, 15.6074



# Rectangle

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



30.0070, 48.5523, 42.4403



32.8026, 48.5523, 93.7890



67.2341, 48.5523, 64.8711



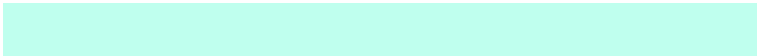
62.6948, 48.5523, 26.0071

# Sweetspot

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



30.0083, 48.5542, 42.4414



72.8048, 88.8272, 94.5293



26.3041, 47.3782, 9.1259



15.0418, 18.7420, 19.8271



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.



30.0083, 48.5542, 42.4414



44.9153, 75.1821, 60.1310



26.0534, 32.8075, 65.2830



12.0217, 13.3524, 14.4706



17.7315, 29.5855, 24.0301



1.0229, 1.6668, 1.5093



# Inverse Universe

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



28.1879, 15.1398, 8.6470



42.2316, 21.6566, 7.1515



28.9593, 18.4661, 3.4054



11.9331, 11.8580, 12.9233



16.6622, 8.5377, 3.1273

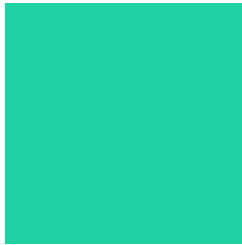


0.9646, 0.4906, 0.3486



# Previews

## White Background



This preview shows how the XYZ color 30.0070, 48.5523, 42.4403 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 30.0070, 48.5523, 42.4403 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

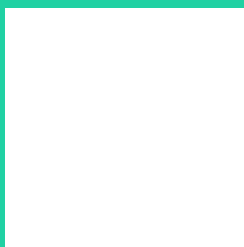
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 30.0070, 48.5523, 42.4403**

## **Background**



This preview shows how black text looks on a background with the XYZ color 30.0070, 48.5523, 42.4403.



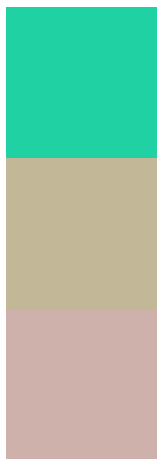
This preview shows how white text looks on a background with the XYZ color 30.0070, 48.5523,



# 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

30.0070, 48.5523, 42.4403

### Protanopia

44.6866, 47.5383, 35.6747

### Deuteranopia

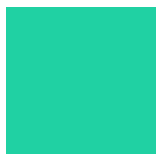
48.4314, 47.4684, 44.6399



## Tritanopia

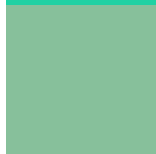
36.3740, 48.6426, 73.8015

# Trichromacy



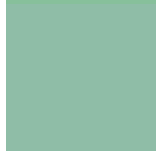
## Original Color

30.0070, 48.5523, 42.4403



## Protanomaly

34.7577, 45.2167, 37.9061



## Deuteranomaly

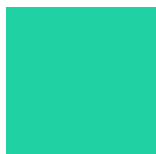
36.5003, 45.0249, 43.3261



## Tritanomaly

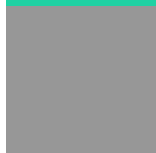
33.7117, 48.6097, 61.0319

# Monochromacy



## Original Color

30.0070, 48.5523, 42.4403



## Achromatopsia

29.4150, 30.9469, 33.7012



## Achromatomaly

26.8533, 35.0598, 36.3622

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 30.0070, 48.5523, 42.4403 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(32, 209, 163)` looks like.

```
.text, #text, p{  
    color:rgb(32, 209, 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(32, 209, 163) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(32, 209, 163) }
```

## Border

The CSS property to change the border of an element to XYZ 30.0070, 48.5523, 42.4403 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(32, 209, 163) }
```



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

```
.border{ border-color:rgb(32, 209, 163) }
```

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

Here you see how a box with a 4 pixel `rgb(32, 209, 163)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(32, 209, 163); -webkit-box-shadow:4px 4px 4px 4px rgb(32, 209, 163); box-shadow:4px 4px 4px 4px rgb(32, 209, 163) }
```

# Background

The CSS property to change the background color of an element to XYZ 30.0070, 48.5523, 42.4403 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(32, 209, 163) }
```

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

```
.background{ background-color: rgb(32, 209,  
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](#).

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