

# Converting Colors

XYZ(29.0368, 41.9398, 42.1331)

Have a look what the booklet for  
XYZ(29.0368, 41.9398, 42.1331)  
contains.

<b>XYZ(28.9896, 41.8172, 42.1409)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(28.9896, 41.8172,  
42.1409)**

# Conversions

## Conversions Part 1

Format	Color
Hex	53BFA5
RGB	83, 191, 165
RGB Percent	33%, 75%, 65%
CMY	0.6745, 0.2510, 0.3529
CMYK	0.57, 0.00, 0.14, 0.25
HSL	166°, 46%, 54%
HSV	166°, 57%, 75%
XYZ	28.9896, 41.8172, 42.1409
YIQ	155.7440, -56.0220, -30.9820

# Conversions

## Conversions Part 2

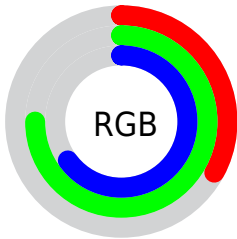
<b>Format</b>	<b>Color</b>
<b>RYB</b>	83, 144, 191
Decimal	5488549
CIELab	70.74, -37.33, 3.81
CIELCh	71, 37.527, 174.174
Yxy	41.8172, 0.2567, 0.3702
Android (android.graphics.Color)	4283678629 (0xFF53BFA5)
YUV	155.7440, 4.5632, -63.7965
Hunter-Lab	64.6662, -33.1451, 6.6290

# Details

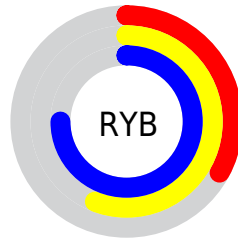
The XYZ color **28.9896, 41.8172, 42.1409** is a dark color, and the websafe version is hex **66CC99**. A complement of this color would be **27.3408, 18.3681, 16.5739**, and the grayscale version is **31.4851, 33.1248, 36.0729**.

A 20% lighter version of the original color is **57.4702, 77.9648, 79.7299**, and **11.9388, 19.0900, 18.6783** is the 20% darker color. If you saturate the color by 10%, you get **27.1201, 40.9020, 39.9083**, and if you desaturate by 10%, it is **31.3407, 42.9810, 44.4765**.

# Distribution



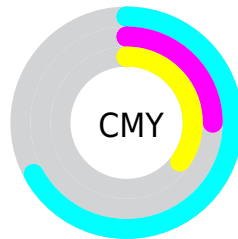
- Red (33%)
- Green (75%)
- Blue (65%)



- Red (33%)
- Yellow (56%)
- Blue (75%)



- Cyan (57%)
- Magenta (0%)
- Yellow (14%)
- Black (25%)



- Cyan (67%)
- Magenta (25%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.9896, 41.8172, 42.1409 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 28.9896, 41.8172, 42.1409 by changing the saturation by 10% instead.



■ 28.9896, 41.8172,  
42.1409

■ 28.9896, 41.8172,  
42.1409

289.1610,  
353.7246, 370.8836

■ 19.2172, 28.9582,  
28.8852

■ 57.4582, 77.9229,  
79.6852

■ 11.9323, 19.0492,  
18.7492

■ 76.8852, 101.9384,  
104.8110

■ 6.7694, 11.7058,  
11.3142

■ 100.2610,  
130.4414, 134.7305

■ 3.3634, 6.5437,  
6.1618

■ 127.9511,  
163.8165, 169.8623

■ 1.3487, 3.1784,  
2.8733

160.3208,  
202.4479, 210.6250

■ 0.2192, 1.2256,  
1.0303

197.7354,

■ 0.0000, 0.0824,

246.7202, 257.4371

0.0000

240.5604,  
297.0176, 310.7171

■ 0.0000, 0.0000,  
0.0000

■ 28.9896, 41.8172,  
42.1409

■ 28.9896, 41.8172,  
42.1409

■ 27.1201, 40.9020,  
39.9083

■ 31.3407, 42.9810,  
44.4765

■ 25.6892, 40.2101,  
37.7731

■ 34.2047, 44.4065,  
46.9145

■ 24.6526, 39.7198,  
35.7332

■ 37.6143, 46.1114,  
49.4582

■ 23.9498, 39.3999,  
33.7851

■ 41.5985, 48.1108,  
52.1098

■ 23.7437, 39.3079,  
33.1309

■ 46.1843, 50.4185,  
54.8713

■ 51.3967, 53.0474,  
57.7445

■ 57.2595, 56.0097,  
60.7314

■ 63.7951, 59.3171,  
63.8338

■ 71.0250, 62.9804,  
67.0533

# Harmonies

## Analogous

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



30.8110, 41.8172, 28.2728



28.9896, 41.8172, 42.1409



29.7973, 41.8172, 61.0591

# Triad

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



28.9896, 41.8172, 42.1409



44.8510, 41.8172, 84.5034



47.1703, 41.8172, 23.0127

# Complementary

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



28.9896, 41.8172, 42.1409



27.3408, 18.3681, 16.5739

# 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.



51.6941, 41.8172, 32.8890



28.9896, 41.8172, 42.1409



50.2602, 41.8172, 68.6833

# Square

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



28.9896, 41.8172, 42.1409



38.5436, 41.8172, 88.8478



52.8799, 41.8172, 49.0999



40.9731, 41.8172, 19.2381



# Rectangle

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



28.9896, 41.8172, 42.1409



31.7658, 41.8172, 73.8346



52.8799, 41.8172, 49.0999



48.9619, 41.8172, 25.5810

# Sweetspot

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



28.9908, 41.8188, 42.1419



73.9469, 85.8854, 92.9743



26.6238, 41.2028, 14.7341



15.9042, 18.6919, 20.2015



92.9021, 97.7402, 106.4391



19.4759, 20.4902, 22.3138



# Same Dimension

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



28.9908, 41.8188, 42.1419



47.8498, 72.9025, 70.4882



26.2480, 32.1530, 54.1148



9.7077, 10.7692, 11.7102



15.6363, 25.8448, 21.9452



0.6366, 1.0220, 0.9866



# Inverse Universe

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



27.3408, 18.3681, 16.5739



44.6571, 26.7993, 20.4763



28.6245, 22.8540, 11.0870



9.6218, 9.5730, 10.3975



14.4711, 7.4196, 2.5085

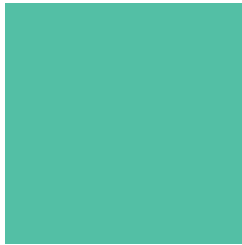


0.5935, 0.3013, 0.2384



# Previews

## White Background



This preview shows how the XYZ color 28.9896, 41.8172, 42.1409 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 28.9896, 41.8172, 42.1409 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

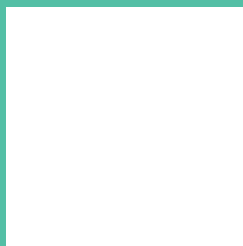
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 28.9896, 41.8172, 42.1409**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.9896, 41.8172, 42.1409.



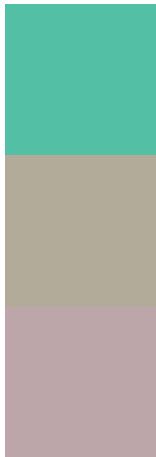
This preview shows how white text looks on a background with the XYZ color 28.9896, 41.8172,



# 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

28.9896, 41.8172, 42.1409

### Protanopia

38.9861, 41.0426, 36.4391

### Deuteranopia

41.8782, 40.9935, 43.7355



## Tritanopia

32.8208, 41.7678, 61.5905

# Trichromacy



## Original Color

28.9896, 41.8172, 42.1409



## Protanomaly

33.5935, 40.2387, 38.3440



## Deuteranomaly

34.9755, 39.9711, 42.9176



## Tritanomaly

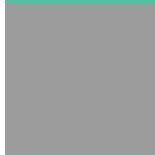
31.3747, 41.8214, 53.9957

# Monochromacy



## Original Color

28.9896, 41.8172, 42.1409



## Achromatopsia

31.5995, 33.2452, 36.2040



## Achromatomaly

29.4992, 35.5463, 38.1072

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.9896, 41.8172, 42.1409 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(83, 191, 165)` looks like.

```
.text, #text, p{  
    color:rgb(83, 191, 165)  
}
```

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(83, 191, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 191, 165) }
```

## Border

The CSS property to change the border of an element to XYZ 28.9896, 41.8172, 42.1409 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(83, 191, 165) }
```



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

```
.border{ border-color:rgb(83, 191, 165) }
```

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

Here you see how a box with a 4 pixel rgb(83, 191, 165) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 191, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(83, 191, 165);  
box-shadow:4px 4px 4px 4px rgb(83, 191,  
165) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.9896, 41.8172, 42.1409 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 191, 165) }
```

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

```
.background{ background-color: rgb(83, 191,  
165) }
```

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