

# Converting Colors

XYZ(29.9043, 45.2169, 46.1813)

Have a look what the booklet for  
XYZ(29.9043, 45.2169, 46.1813)  
contains.

<b>XYZ(29.9043, 45.2169, 46.1813)</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(29.9043, 45.2169,  
46.1813)**

# Conversions

## Conversions Part 1

Format	Color
Hex	3BC8AC
RGB	59, 200, 172
RGB Percent	23%, 78%, 67%
CMY	0.7686, 0.2157, 0.3255
CMYK	0.70, 0.00, 0.14, 0.22
HSL	168°, 56%, 51%
HSV	168°, 70%, 78%
XYZ	29.9043, 45.2169, 46.1813
YIQ	154.6490, -75.0480, -38.6000

# Conversions

## Conversions Part 2

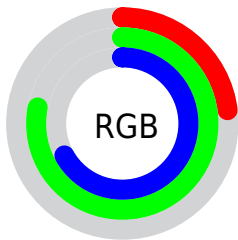
<b>Format</b>	<b>Color</b>
<b>RYB</b>	59, 137, 200
Decimal	3917996
CIELab	73.03, -43.70, 3.24
CIELCh	73, 43.819, 175.759
Yxy	45.2169, 0.2465, 0.3728
Android (android.graphics.Color)	4282108076 (0xFF3BC8AC)
YUV	154.6490, 8.5540, -83.8842
Hunter-Lab	67.2435, -38.2943, 6.3514

# Details

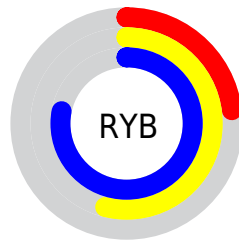
The XYZ color **29.9043, 45.2169, 46.1813** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle muted spring green. A complement of this color would be **27.1052, 16.0967, 10.6970**, and the grayscale version is **30.9893, 32.6031, 35.5048**.

A 20% lighter version of the original color is **58.0826, 81.4260, 85.3286**, and **13.5156, 21.6069, 21.2275** is the 20% darker color. If you saturate the color by 10%, you get **28.5626, 44.5697, 44.1576**, and if you desaturate by 10%, it is **31.7139, 46.1061, 48.2884**.

# Distribution



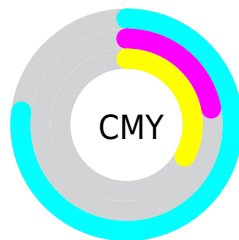
- Red (23%)
- Green (78%)
- Blue (67%)



- Red (23%)
- Yellow (54%)
- Blue (78%)



- Cyan (70%)
- Magenta (0%)
- Yellow (14%)
- Black (22%)




- Cyan (77%)
- Magenta (22%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.9043, 45.2169, 46.1813 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 29.9043, 45.2169, 46.1813 by changing the saturation by 10% instead.





 29.9043, 45.2169,  
46.1813


 29.9043, 45.2169,  
46.1813


293.3760,  
367.6513, 387.8358


 19.9137, 31.6283,  
32.0392


 58.8985, 83.0458,  
85.8274


 12.4402, 21.0778,  
21.1264


 78.6327, 108.0549,  
112.1685


 7.1185, 13.1808,  
13.0243


 102.3456,  
137.6396, 143.4130

 3.5833, 7.5532,  
7.3143

 130.4023,  
172.1843, 179.9795

 1.4692, 3.8104,  
3.5780

 163.1684,  
212.0735, 222.2865

 0.3048, 1.5681,  
1.3968

201.0091,

 0.0000, 0.3359,

257.6914, 270.7525

0.1392

244.2899,  
309.4226, 325.7961

■ 0.0000, 0.0000,  
0.0000

■ 29.9043, 45.2169,  
46.1813

■ 29.9043, 45.2169,  
46.1813

■ 28.5626, 44.5697,  
44.1576

■ 31.7139, 46.1061,  
48.2884

■ 27.6297, 44.1309,  
42.2110

■ 34.0341, 47.2562,  
50.4785

■ 27.0250, 43.8580,  
40.4287

■ 36.9069, 48.6897,  
52.7550

■ 40.3690, 50.4258,  
55.1201

■ 44.4538, 52.4814,  
57.5758

■ 49.1923, 54.8727,  
60.1241

■ 54.6132, 57.6144,  
62.7669

■ 60.7436, 60.7205,  
65.5058

■ 67.6092, 64.2042,  
68.3425

# Harmonies

## Analogous

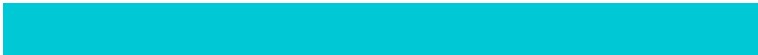
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



31.9198, 45.2169, 29.1168



29.9043, 45.2169, 46.1813



31.0354, 45.2169, 69.9238

# Triad

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



29.9043, 45.2169, 46.1813



49.6980, 45.2169, 97.8039



51.8042, 45.2169, 21.9572

# Complementary

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



29.9043, 45.2169, 46.1813



27.1052, 16.0967, 10.6970

# 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.



57.6461, 45.2169, 33.0894



29.9043, 45.2169, 46.1813



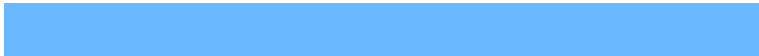
56.3323, 45.2169, 76.9707

# Square

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



29.9043, 45.2169, 46.1813



41.8979, 45.2169, 104.3847



59.3938, 45.2169, 52.4173



44.0751, 45.2169, 18.0209



# Rectangle

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



29.9043, 45.2169, 46.1813



33.5029, 45.2169, 86.0369



59.3938, 45.2169, 52.4173



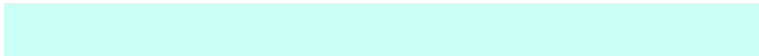
54.0881, 45.2169, 24.7843

# Sweetspot

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



29.9056, 45.2187, 46.1824



76.3532, 90.5538, 99.3332



25.3943, 43.6620, 11.2278



15.9002, 19.1594, 21.0039



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.



29.9056, 45.2187, 46.1824



48.4464, 76.6880, 74.5057



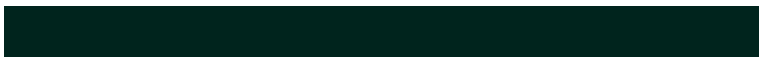
24.4062, 29.4532, 59.0442



10.8529, 12.0301, 13.1757



17.2152, 27.8984, 25.8753



0.8388, 1.3305, 1.3499



# Inverse Universe

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



27.1052, 16.0967, 10.6970



43.4375, 23.2608, 10.0433



29.2933, 21.9625, 6.8338



10.7186, 10.6708, 11.5012



15.4116, 7.9142, 2.1113



0.7560, 0.3852, 0.2381



# Previews

## White Background



This preview shows how the XYZ color 29.9043, 45.2169, 46.1813 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 29.9043, 45.2169, 46.1813 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

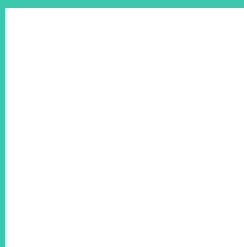
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 29.9043, 45.2169, 46.1813**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.9043, 45.2169, 46.1813.



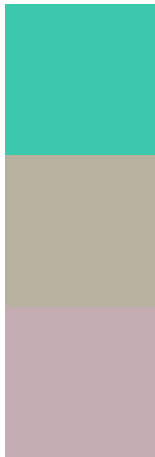
This preview shows how white text looks on a background with the XYZ color 29.9043, 45.2169,



# 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

29.9043, 45.2169, 46.1813

### Protanopia

42.0749, 44.2966, 39.5902

### Deuteranopia

45.2941, 44.3215, 48.2871



## Tritanopia

34.2899, 45.3031, 67.9099

# Trichromacy



## Original Color

29.9043, 45.2169, 46.1813



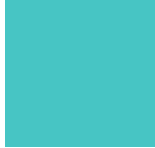
## Protanomaly

34.6973, 42.8672, 41.5674



## Deuteranomaly

36.4185, 42.7015, 47.3970



## Tritanomaly

32.5286, 45.2576, 59.2457

# Monochromacy



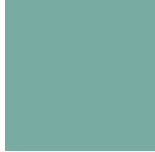
## Original Color

29.9043, 45.2169, 46.1813



## Achromatopsia

31.1553, 32.7778, 35.6950



## Achromatomaly

28.7417, 35.6921, 39.0926

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.9043, 45.2169, 46.1813 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(59, 200, 172)` looks like.

```
.text, #text, p{  
    color:rgb(59, 200, 172)  
}
```

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(59, 200, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 200, 172) }
```

## Border

The CSS property to change the border of an element to XYZ 29.9043, 45.2169, 46.1813 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(59, 200, 172) }
```



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

```
.border{ border-color:rgb(59, 200, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 200, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 200, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 200, 172);  
box-shadow:4px 4px 4px 4px rgb(59, 200,  
172) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.9043, 45.2169, 46.1813 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 200, 172) }
```

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

```
.background{ background-color: rgb(59, 200,  
172) }
```

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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