

# Converting Colors

XYZ(32.8516, 45.1877, 69.9414)

Have a look what the booklet for  
XYZ(32.8516, 45.1877, 69.9414)  
contains.

<b>XYZ(32.8516, 45.1877, 69.9414)</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(32.8516, 45.1877,  
69.9414)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	28C5D5
RGB	40, 197, 213
RGB Percent	16%, 77%, 84%
CMY	0.8431, 0.2274, 0.1647
CMYK	0.81, 0.08, 0.00, 0.16
HSL	186°, 68%, 50%
HSV	186°, 81%, 84%
XYZ	32.8516, 45.1877, 69.9414
YIQ	151.8810, -98.7080, -28.3080

# Conversions

## Conversions Part 2

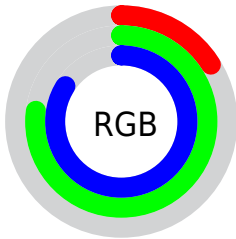
<b>Format</b>	<b>Color</b>
<b>RYB</b>	40, 122, 213
Decimal	2672085
CIELab	73.02, -32.79, -19.09
CIElCh	73, 37.945, 210.207
Yxy	45.1877, 0.2220, 0.3054
Android (android.graphics.Color)	4280862165 (0xFF28C5D5)
YUV	151.8810, 30.1317, -98.1196
Hunter-Lab	67.2218, -30.4044, -14.6334

# Details

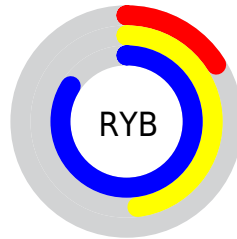
The XYZ color **32.8516, 45.1877, 69.9414** is a light color, and the websafe version is hex **33CCCC**. The color can be described as light washed cyan. A complement of this color would be **29.2392, 17.1296, 3.7743**, and the grayscale version is **29.7012, 31.2480, 34.0290**.

A 20% lighter version of the original color is **60.9630, 81.9552, 107.2136**, and **15.9940, 22.1135, 35.7731** is the 20% darker color. If you saturate the color by 10%, you get **31.7959, 43.9847, 69.7657**, and if you desaturate by 10%, it is **34.3716, 46.6406, 70.1426**.

# Distribution



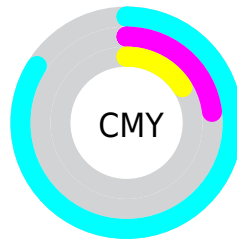
- Red (16%)
- Green (77%)
- Blue (84%)



- Red (16%)
- Yellow (48%)
- Blue (84%)



- Cyan (81%)
- Magenta (8%)
- Yellow (0%)
- Black (16%)



- Cyan (84%)
- Magenta (23%)
- Yellow (16%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.8516, 45.1877, 69.9414 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 32.8516, 45.1877, 69.9414 by changing the saturation by 10% instead.



■ 32.8516, 45.1877,  
69.9414

■ 32.8516, 45.1877,  
69.9414

306.6573,  
367.5332, 479.1278

■ 22.1715, 31.6053,  
51.0023

■ 63.5000, 83.0020,  
120.8055

■ 14.1003, 21.0602,  
35.8337

■ 84.1990, 108.0027,  
153.5676

■ 8.2726, 13.1680,  
24.0171

■ 108.9683,  
137.5783, 191.7743

■ 4.3231, 7.5443,  
15.1340

■ 138.1733,  
172.1131, 235.8443

■ 1.8865, 3.8048,  
8.7658

■ 172.1794,  
211.9916, 286.1962

■ 0.5690, 1.5650,  
4.4940

211.3518,

■ 0.0000, 0.3338,

257.5982, 343.2483

1.9001

256.0560,  
309.3173, 407.4193

■ 0.0000, 0.0000,  
0.4928

■ 0.0000, 0.0000,  
0.0000

■ 32.8516, 45.1877,  
69.9414

■ 32.8516, 45.1877,  
69.9414

■ 31.7959, 43.9847,  
69.7657

■ 34.3716, 46.6406,  
70.1426

■ 31.1471, 43.0776,  
69.6248

■ 36.4173, 48.3724,  
70.3690

■ 39.0451, 50.4129,  
70.6244

■ 42.3030, 52.7870,  
70.9109

■ 46.2339, 55.5170,  
71.2307

■ 50.8772, 58.6229,  
71.5855

■ 56.2688, 62.1236,  
71.9770

■ 62.4427, 66.0364,  
72.4068

■ 69.4303, 70.3776,  
72.8765

# Harmonies

## Analogous

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



31.4257, 45.1877, 49.3337



32.8516, 45.1877, 69.9414



36.9242, 45.1877, 88.1533

# Triad

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



32.8516, 45.1877, 69.9414



54.9842, 45.1877, 69.6531



42.9035, 45.1877, 20.9871

# Complementary

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



32.8516, 45.1877, 69.9414



29.2392, 17.1296, 3.7743

# 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.



49.5972, 45.1877, 23.8406



32.8516, 45.1877, 69.9414



56.9938, 45.1877, 49.0700

# Square

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



32.8516, 45.1877, 69.9414



49.6850, 45.1877, 87.9589



54.9299, 45.1877, 33.0300



36.8521, 45.1877, 23.9220



# Rectangle

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



32.8516, 45.1877, 69.9414



40.8184, 45.1877, 94.6371



54.9299, 45.1877, 33.0300



45.1536, 45.1877, 21.2898

# Sweetspot

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



32.8530, 45.1894, 69.9425



74.2277, 86.6245, 107.4157



25.3464, 48.3110, 11.5327



15.3489, 18.1809, 22.9502



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.



32.8530, 45.1894, 69.9425



47.0372, 65.0522, 104.6850



18.6907, 16.8648, 65.2217



12.6894, 13.9023, 15.9521



19.0659, 26.3935, 42.5427



1.1793, 1.6505, 2.5757



# Inverse Universe

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



38.2787, 19.6964, 54.6092



55.9061, 27.2593, 78.7510



37.3380, 33.3272, 6.4739



12.9012, 12.6120, 15.4199



22.6824, 11.0093, 31.9613

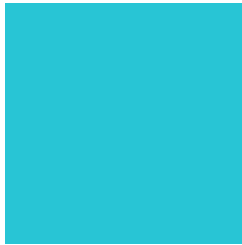


1.3829, 0.6699, 2.0056



# Previews

## White Background



This preview shows how the XYZ color 32.8516, 45.1877, 69.9414 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

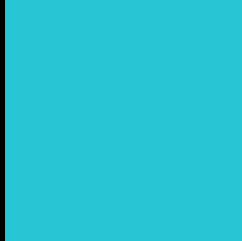
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.8516, 45.1877, 69.9414 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

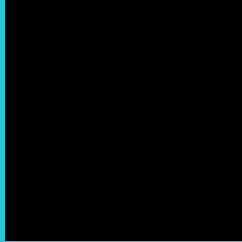
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

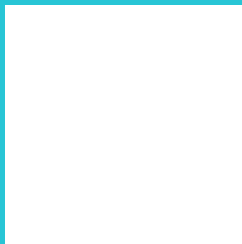
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 32.8516, 45.1877, 69.9414

## Background



This preview shows how black text looks on a background with the XYZ color 32.8516, 45.1877, 69.9414.



This preview shows how white text looks on a background with the XYZ color 32.8516, 45.1877,



# 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

32.8516, 45.1877, 69.9414

### Protanopia

43.4062, 44.2195, 60.8910

### Deuteranopia

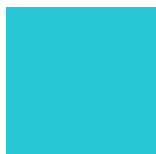
45.4701, 44.4480, 72.5125



## Tritanopia

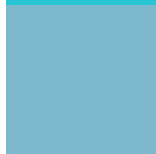
32.8516, 45.1877, 69.9414

# Trichromacy



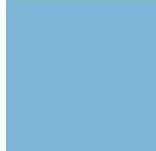
## Original Color

32.8516, 45.1877, 69.9414



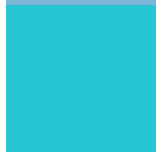
## Protanomaly

36.6174, 43.0487, 64.1369



## Deuteranomaly

37.7268, 42.8494, 71.2481



## Tritanomaly

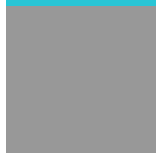
32.8516, 45.1877, 69.9414

# Monochromacy



## Original Color

32.8516, 45.1877, 69.9414



## Achromatopsia

29.8446, 31.3989, 34.1934



## Achromatomaly

28.1982, 34.4408, 45.2059

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.8516, 45.1877, 69.9414 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(40, 197, 213)` looks like.

```
.text, #text, p{  
    color:rgb(40, 197, 213)  
}
```

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(40, 197, 213) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 197, 213) }
```

## Border

The CSS property to change the border of an element to XYZ 32.8516, 45.1877, 69.9414 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(40, 197, 213) }
```



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

```
.border{ border-color:rgb(40, 197, 213) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 197, 213)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 197, 213); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 197, 213);  
box-shadow:4px 4px 4px 4px rgb(40, 197,  
213) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.8516, 45.1877, 69.9414 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 197, 213) }
```

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

```
.background{ background-color: rgb(40, 197,  
213) }
```

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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