

# Converting Colors

XYZ(32.1689, 49.8872, 49.6517)

Have a look what the booklet for  
XYZ(32.1689, 49.8872, 49.6517)  
contains.

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# Color

**XYZ(32.1547, 49.8718,  
49.5265)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2FD2B1
RGB	47, 210, 177
RGB Percent	18%, 82%, 69%
CMY	0.8156, 0.1765, 0.3059
CMYK	0.78, 0.00, 0.16, 0.18
HSL	168°, 64%, 50%
HSV	168°, 78%, 82%
XYZ	32.1547, 49.8718, 49.5265
YIQ	157.5010, -86.5550, -44.8190

# Conversions

## Conversions Part 2

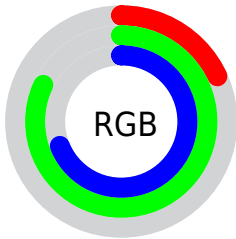
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">47, 138, 210</a>
Decimal	<a href="#">3134129</a>
CIELab	<a href="#">75.99, -48.12, 4.79</a>
CIELCh	<a href="#">76, 48.354, 174.312</a>
Yxy	<a href="#">49.8718, 0.2444, 0.3791</a>
Android (android.graphics.Color)	<a href="#">4281324209 (0xFF2FD2B1)</a>
YUV	<a href="#">157.5010, 9.6130, -96.9094</a>
Hunter-Lab	<a href="#">70.6200, -42.3103, 7.8533</a>

# Details

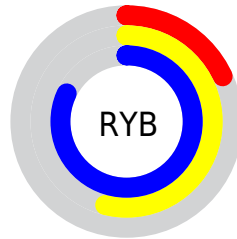
The XYZ color **32.1547, 49.8718, 49.5265** is a dark color, and the websafe version is hex **33CC99**. The color can be described as middle washed spring green. A complement of this color would be **29.0445, 16.3153, 9.2099**, and the grayscale version is **32.2614, 33.9415, 36.9623**.

A 20% lighter version of the original color is **58.2137, 81.3963, 89.7337**, and **15.2573, 24.5919, 23.3446** is the 20% darker color. If you saturate the color by 10%, you get **30.9923, 49.3220, 47.2950**, and if you desaturate by 10%, it is **33.7985, 50.6707, 51.8517**.

# Distribution



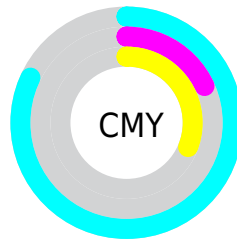
- Red (18%)
- Green (82%)
- Blue (69%)



- Red (18%)
- Yellow (54%)
- Blue (82%)



- Cyan (78%)
- Magenta (0%)
- Yellow (16%)
- Black (18%)



- Cyan (82%)
- Magenta (18%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 32.1547, 49.8718, 49.5265 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 32.1547, 49.8718, 49.5265 by changing the saturation by 10% instead.





 32.1547, 49.8718,  
49.5265


 32.1547, 49.8718,  
49.5265


303.5561,  
386.1644, 401.4933


 21.6358, 35.3115,  
34.6688


 62.4171, 89.9849,  
90.8620


 13.7046, 23.9030,  
23.1263


 82.8913, 116.3065,  
118.1768

 7.9959, 15.2617,  
14.4806


 107.4147,  
147.3174, 150.4811

 4.1441, 9.0032,  
8.3132

 136.3525,  
183.4019, 188.1934

 1.7840, 4.7433,  
4.2053

 170.0702,  
224.9445, 231.7322

 0.5080, 2.0974,  
1.7387

208.9332,

 0.0000, 0.6632,

272.3295, 281.5161

0.3870

253.3067,  
325.9413, 337.9636

■ 0.0000, 0.0000,  
0.0000

■ 32.1547, 49.8718,  
49.5265

■ 32.1547, 49.8718,  
49.5265

■ 30.9923, 49.3220,  
47.2950

■ 33.7985, 50.6707,  
51.8517

■ 30.2245, 48.9728,  
45.1491

■ 35.9786, 51.7433,  
54.2705

■ 30.0672, 48.9027,  
44.6485

■ 38.7469, 53.1176,  
56.7869

■ 42.1478, 54.8164,  
59.4038

■ 46.2216, 56.8605,  
62.1234

■ 51.0051, 59.2690,  
64.9482

■ 56.5324, 62.0592,  
67.8803

■ 62.8353, 65.2477,  
70.9217

■ 69.9440, 68.8499,  
74.0745

# Harmonies

## Analogous

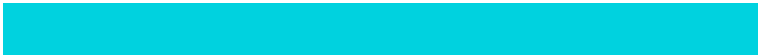
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



34.6657, 49.8718, 30.1760



32.1547, 49.8718, 49.5265



33.2891, 49.8718, 77.4229

# Triad

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



32.1547, 49.8718, 49.5265



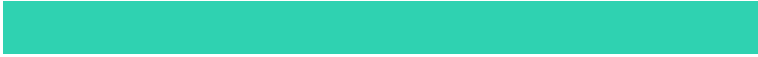
54.9057, 49.8718, 113.3024



58.2551, 49.8718, 23.1277

# Complementary

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



32.1547, 49.8718, 49.5265



29.0445, 16.3153, 9.2099

# 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.



65.0268, 49.8718, 36.3138



32.1547, 49.8718, 49.5265



62.9277, 49.8718, 88.7339

# Square

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



32.1547, 49.8718, 49.5265



45.7035, 49.8718, 120.2314



66.8366, 49.8718, 59.3748



49.1414, 49.8718, 18.3579



# Rectangle

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



32.1547, 49.8718, 49.5265



36.0441, 49.8718, 96.9095



66.8366, 49.8718, 59.3748



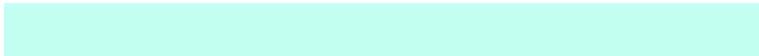
60.9248, 49.8718, 26.4721

# Sweetspot

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



32.1561, 49.8737, 49.5277



74.8127, 89.7814, 98.2796



27.0687, 48.1085, 10.5495



15.4545, 18.9359, 20.6964



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.



32.1561, 49.8737, 49.5277



47.2672, 76.1514, 71.2287



26.0496, 31.7450, 65.7293



12.0515, 13.3644, 14.6277



18.3768, 29.8437, 27.4282



1.0541, 1.6793, 1.6738



# Inverse Universe

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



29.0445, 16.3153, 9.2099



42.4333, 22.0795, 7.1589



31.0237, 21.7697, 5.2572



11.9052, 11.8468, 12.7767



16.5022, 8.4737, 2.2849

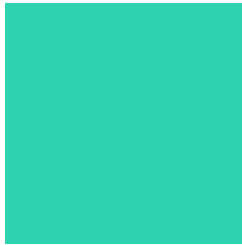


0.9518, 0.4854, 0.2807



# Previews

## White Background



This preview shows how the XYZ color 32.1547, 49.8718, 49.5265 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

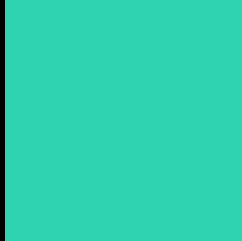
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 32.1547, 49.8718, 49.5265 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

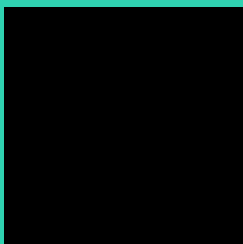
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

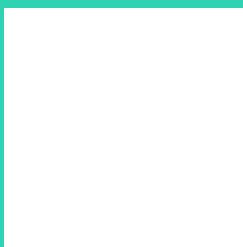
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 32.1547, 49.8718, 49.5265**

## **Background**



This preview shows how black text looks on a background with the XYZ color 32.1547, 49.8718, 49.5265.



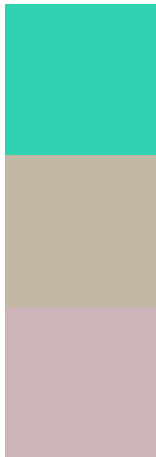
This preview shows how white text looks on a background with the XYZ color 32.1547, 49.8718,



# 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

32.1547, 49.8718, 49.5265

### Protanopia

46.2979, 48.8476, 42.1103

### Deuteranopia

49.8748, 48.9406, 52.1652



## Tritanopia

37.3352, 49.8089, 75.3565

# Trichromacy



## Original Color

32.1547, 49.8718, 49.5265



## Protanomaly

37.4377, 47.1109, 44.6562



## Deuteranomaly

39.0039, 46.8008, 50.6938



## Tritanomaly

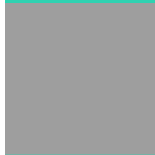
35.0847, 49.5922, 64.8498

# Monochromacy



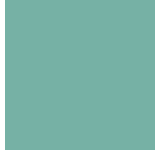
## Original Color

32.1547, 49.8718, 49.5265



## Achromatopsia

32.4990, 34.1914, 37.2345



## Achromatomaly

29.9849, 38.0124, 41.3541

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 32.1547, 49.8718, 49.5265 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(47, 210, 177)` looks like.

```
.text, #text, p{  
    color:rgb(47, 210, 177)  
}
```

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(47, 210, 177) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(47, 210, 177) }
```

## Border

The CSS property to change the border of an element to XYZ 32.1547, 49.8718, 49.5265 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(47, 210, 177) }
```



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

```
.border{ border-color:rgb(47, 210, 177) }
```

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

Here you see how a box with a 4 pixel `rgb(47, 210, 177)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(47, 210, 177); -webkit-box-  
shadow:4px 4px 4px 4px rgb(47, 210, 177);  
box-shadow:4px 4px 4px 4px rgb(47, 210,  
177) }
```

# Background

The CSS property to change the background color of an element to XYZ 32.1547, 49.8718, 49.5265 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(47, 210, 177) }
```

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

```
.background{ background-color: rgb(47, 210,  
177) }
```

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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