

# Converting Colors

XYZ(28.4837, 40.2165, 49.6597)

Have a look what the booklet for  
XYZ(28.4837, 40.2165, 49.6597)  
contains.

<b>XYZ(28.3924, 40.0649, 49.4169)</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(28.3924, 40.0649,  
49.4169)**

# Conversions

## Conversions Part 1

Format	Color
Hex	44BBB4
RGB	68, 187, 180
RGB Percent	27%, 73%, 71%
CMY	0.7333, 0.2667, 0.2941
CMYK	0.64, 0.00, 0.04, 0.27
HSL	176°, 47%, 50%
HSV	176°, 64%, 73%
XYZ	28.3924, 40.0649, 49.4169
YIQ	150.6210, -68.6770, -27.4050

# Conversions

## Conversions Part 2

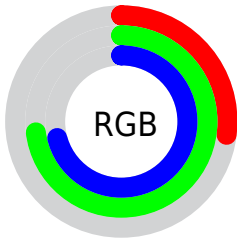
Format	Color
<a href="#">RYB</a>	<a href="#">68, 129, 187</a>
Decimal	<a href="#">4504500</a>
CIELab	<a href="#">69.52, -34.36, -6.26</a>
CIELCh	<a href="#">70, 34.928, 190.320</a>
Yxy	<a href="#">40.0649, 0.2409, 0.3399</a>
Android (android.graphics.Color)	<a href="#">4282694580</a> ( <a href="#">0xFF44BBB4</a> )
YUV	<a href="#">150.6210, 14.4838, -72.4586</a>
Hunter-Lab	<a href="#">63.2968, -30.7016, -1.9809</a>

# Details

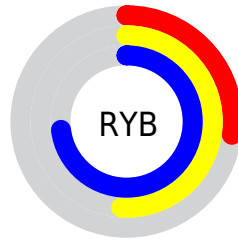
The XYZ color **28.3924, 40.0649, 49.4169** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **23.8319, 15.2081, 8.3372**, and the grayscale version is **29.2158, 30.7373, 33.4730**.

A 20% lighter version of the original color is **56.6969, 75.5033, 90.9422**, and **12.2183, 18.3074, 22.9684** is the 20% darker color. If you saturate the color by 10%, you get **27.1790, 39.4532, 48.7781**, and if you desaturate by 10%, it is **30.0249, 40.8944, 50.0817**.

# Distribution



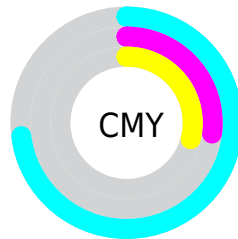
- Red (27%)
- Green (73%)
- Blue (71%)



- Red (27%)
- Yellow (51%)
- Blue (73%)



- Cyan (64%)
- Magenta (0%)
- Yellow (4%)
- Black (27%)




- Cyan (73%)
- Magenta (27%)
- Yellow (29%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 28.3924, 40.0649, 49.4169 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 28.3924, 40.0649, 49.4169 by changing the saturation by 10% instead.





 28.3924, 40.0649,  
49.4169


 28.3924, 40.0649,  
49.4169


286.3834,  
346.3970, 401.0508


 18.7636, 27.5891,  
34.5824

 56.5146, 75.2623,  
90.6977


 11.6026, 18.0162,  
23.0604

 75.7387, 98.7528,  
117.9811

 6.5440, 10.9616,  
14.4324


 98.8920, 126.6836,  
150.2512

 3.2223, 6.0410,  
8.2798

 126.3398,  
159.4392, 187.9265

 1.2724, 2.8700,  
4.1842

 158.4475,  
197.4040, 231.4255

 0.1624, 1.0643,  
1.7269

195.5805,

 0.0000, 0.0000,

240.9622, 281.1669

0.3791

238.1040,  
290.4985, 337.5692

■ 0.0000, 0.0000,  
0.0000

■ 28.3924, 40.0649,  
49.4169

■ 28.3924, 40.0649,  
49.4169

■ 27.1790, 39.4532,  
48.7781

■ 30.0249, 40.8944,  
50.0817

■ 26.3401, 39.0335,  
48.1606

■ 32.1088, 41.9556,  
50.7714

■ 25.8272, 38.7818,  
47.5630

■ 34.6772, 43.2664,  
51.4885

■ 25.6075, 38.6766,  
47.1900

■ 37.7592, 44.8419,  
52.2342

■ 41.3814, 46.6958,  
53.0100

■ 45.5688, 48.8410,  
53.8168

■ 50.3447, 51.2894,  
54.6560

■ 55.7312, 54.0526,  
55.5284

■ 61.7491, 57.1411,  
56.4351

# Harmonies

## Analogous

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



28.7700, 40.0649, 33.9940



28.3924, 40.0649, 49.4169



30.4088, 40.0649, 66.9163

# Triad

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



28.3924, 40.0649, 49.4169



45.5233, 40.0649, 71.7879



41.8436, 40.0649, 20.4594

# Complementary

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



28.3924, 40.0649, 49.4169



23.8319, 15.2081, 8.3372

# 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.



46.9447, 40.0649, 26.4813



28.3924, 40.0649, 49.4169



49.2099, 40.0649, 54.9196

# Square

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



28.3924, 40.0649, 49.4169



40.0529, 40.0649, 81.7857



49.7543, 40.0649, 38.3022



36.1739, 40.0649, 19.6792



# Rectangle

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



28.3924, 40.0649, 49.4169



32.9679, 40.0649, 76.4830



49.7543, 40.0649, 38.3022



43.6961, 40.0649, 21.8520

# Sweetspot

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



28.3936, 40.0664, 49.4178



70.3096, 81.6829, 94.1423



21.7901, 37.4934, 11.5581



15.0858, 17.7845, 20.6445



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



28.3936, 40.0664, 49.4178



48.0625, 70.3501, 86.9563



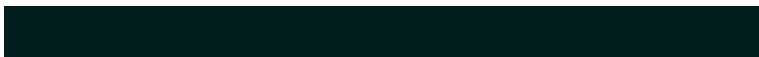
20.0793, 22.2673, 50.2552



9.7837, 10.7996, 12.1103



17.6526, 26.6513, 32.5629



0.6989, 1.0469, 1.3147



# Inverse Universe

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



23.8319, 15.2081, 8.3372



39.2973, 22.3911, 7.8765



28.2028, 24.3125, 8.6760



9.5523, 9.5452, 10.0315



14.1712, 7.2996, 0.9292

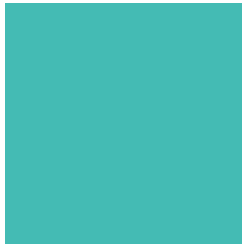


0.5630, 0.2891, 0.0778



# Previews

## White Background



This preview shows how the XYZ color 28.3924, 40.0649, 49.4169 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 28.3924, 40.0649, 49.4169 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

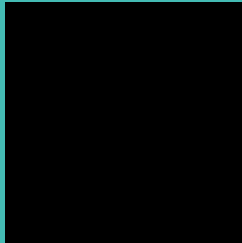
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

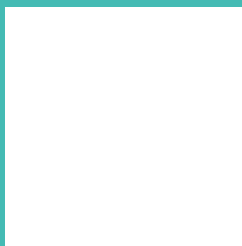
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 28.3924, 40.0649, 49.4169**

## **Background**



This preview shows how black text looks on a background with the XYZ color 28.3924, 40.0649, 49.4169.



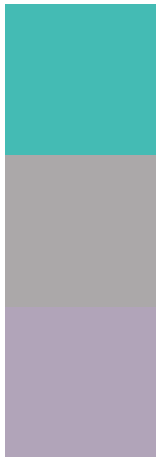
This preview shows how white text looks on a background with the XYZ color 28.3924, 40.0649,



# 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

28.3924, 40.0649, 49.4169

### Protanopia

37.9587, 39.5278, 43.1651

### Deuteranopia

40.1639, 39.4008, 51.3872



## Tritanopia

30.5099, 39.9823, 60.1421

# Trichromacy



## Original Color

28.3924, 40.0649, 49.4169



## Protanomaly

32.7043, 38.7454, 45.2901



## Deuteranomaly

33.6163, 38.2423, 50.4095



## Tritanomaly

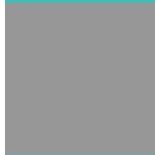
29.6874, 39.9595, 56.0174

# Monochromacy



## Original Color

28.3924, 40.0649, 49.4169



## Achromatopsia

29.4150, 30.9469, 33.7012



## Achromatomaly

27.6822, 33.2245, 39.1364

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 28.3924, 40.0649, 49.4169 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(68, 187, 180)` looks like.

```
.text, #text, p{  
    color:rgb(68, 187, 180)  
}
```

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(68, 187, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 187, 180) }
```

## Border

The CSS property to change the border of an element to XYZ 28.3924, 40.0649, 49.4169 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(68, 187, 180) }
```



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

```
.border{ border-color:rgb(68, 187, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 187, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 187, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 187, 180);  
box-shadow:4px 4px 4px 4px rgb(68, 187,  
180) }
```

# Background

The CSS property to change the background color of an element to XYZ 28.3924, 40.0649, 49.4169 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 187, 180) }
```

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

```
.background{ background-color: rgb(68, 187,  
180) }
```

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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