

# Converting Colors

XYZ(37.9052, 54.7513, 49.5043)

Have a look what the booklet for  
XYZ(37.9052, 54.7513, 49.5043)  
contains.

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# Color

**XYZ(37.9626, 54.7387,  
49.6391)**

# Conversions

## Conversions Part 1

Format	Color
Hex	69D7B0
RGB	105, 215, 176
RGB Percent	41%, 84%, 69%
CMY	0.5882, 0.1568, 0.3098
CMYK	0.51, 0.00, 0.18, 0.16
HSL	159°, 58%, 63%
HSV	159°, 51%, 84%
XYZ	37.9626, 54.7387, 49.6391
YIQ	177.6640, -53.0410, -35.4490

# Conversions

## Conversions Part 2

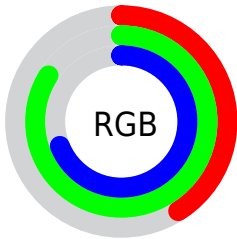
Format	Color
<a href="#">RYB</a>	<a href="#">105, 172, 215</a>
Decimal	<a href="#">6936496</a>
CIELab	<a href="#">78.89, -40.79, 9.68</a>
CIELCh	<a href="#">79, 41.921, 166.655</a>
Yxy	<a href="#">54.7387, 0.2667, 0.3846</a>
Android (android.graphics.Color)	<a href="#">4285126576 (0xFF69D7B0)</a>
YUV	<a href="#">177.6640, -0.8204, -63.7263</a>
Hunter-Lab	<a href="#">73.9856, -37.8850, 12.0105</a>

# Details

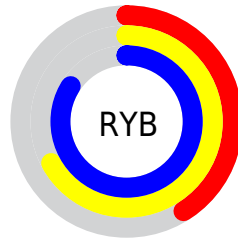
The XYZ color **37.9626, 54.7387, 49.6391** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **38.1118, 26.5652, 29.5065**, and the grayscale version is **42.1649, 44.3608, 48.3089**.

A 20% lighter version of the original color is **65.4297, 85.1327, 89.3277**, and **17.1008, 27.0639, 23.0614** is the 20% darker color. If you saturate the color by 10%, you get **35.0164, 53.3060, 45.6745**, and if you desaturate by 10%, it is **41.5925, 56.5218, 53.8592**.

# Distribution



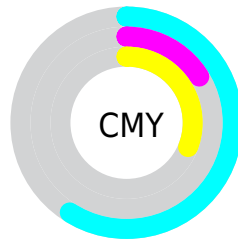
- Red (41%)
- Green (84%)
- Blue (69%)



- Red (41%)
- Yellow (67%)
- Blue (84%)



- Cyan (51%)
- Magenta (0%)
- Yellow (18%)
- Black (16%)




- Cyan (59%)
- Magenta (16%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.9626, 54.7387, 49.6391 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 37.9626, 54.7387, 49.6391 by changing the saturation by 10% instead.





 37.9626, 54.7387,  
49.6391


 37.9626, 54.7387,  
49.6391


328.7431,  
404.9207, 401.9475


 26.1307, 39.1926,  
34.7575


 71.3551, 97.1580,  
91.0307


 17.0547, 26.9096,  
23.1941


 93.6464, 124.8000,  
118.3779

 10.3690, 17.5053,  
14.5303


 120.1549,  
157.2426, 150.7173

 5.7084, 10.5954,  
8.3474

 151.2460,  
194.8704, 188.4675

 2.7076, 5.7955,  
4.2271

187.2851,  
238.0677, 232.0471

 1.0011, 2.7211,  
1.7507

228.6373,

 0.0000, 0.9879,

287.2189, 281.8746

0.3952

275.6682,  
342.7085, 338.3686

■ 0.0000, 0.0000,  
0.0000

■ 37.9626, 54.7387,  
49.6391

■ 37.9626, 54.7387,  
49.6391

■ 35.0164, 53.3060,  
45.6745

■ 41.5925, 56.5218,  
53.8592

■ 32.6996, 52.1916,  
41.9558

■ 45.9461, 58.6716,  
58.3367

■ 30.9568, 51.3683,  
38.4778

■ 51.0658, 61.2112,  
63.0781

■ 29.7202, 50.8013,  
35.2335

■ 56.9892, 64.1601,  
68.0885

■ 28.9449, 50.4602,  
32.5530

■ 63.7512, 67.5361,  
73.3729

71.3850, 71.3562,  
78.9361

79.7352, 75.5403,  
84.7739

80.8256, 75.9765,  
90.5160

81.9634, 76.4316,  
96.5077

# Harmonies

## Analogous

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



41.2392, 54.7387, 33.3601



37.9626, 54.7387, 49.6391



38.1567, 54.7387, 73.7200

# Triad

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



37.9626, 54.7387, 49.6391



56.7485, 54.7387, 115.1521



63.7987, 54.7387, 32.1055

# Complementary

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



37.9626, 54.7387, 49.6391



38.1118, 26.5652, 29.5065

# 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.



68.9082, 54.7387, 47.4109



37.9626, 54.7387, 49.6391



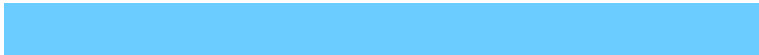
64.5501, 54.7387, 96.9041

# Square

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



37.9626, 54.7387, 49.6391



48.4216, 54.7387, 116.2177



69.1970, 54.7387, 70.8141



55.8081, 54.7387, 25.2130



# Rectangle

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



37.9626, 54.7387, 49.6391



40.2198, 54.7387, 91.3502



69.1970, 54.7387, 70.8141



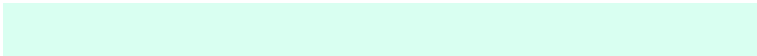
65.9457, 54.7387, 36.2201

# Sweetspot

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



37.9641, 54.7409, 49.6404



80.2437, 92.6105, 97.2089



38.5878, 55.6731, 22.0776



16.7787, 19.6249, 20.4709



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.



37.9641, 54.7409, 49.6404



51.3625, 78.3611, 66.9686



38.8247, 49.3748, 71.7765



12.5965, 14.0296, 14.9558



17.3640, 30.2009, 19.7442



1.0860, 1.8371, 1.3947



# Inverse Universe

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



38.1118, 26.5652, 29.5065



51.6276, 32.6224, 34.4111



37.2522, 28.8213, 16.9651



12.6033, 12.4928, 13.8513



17.5929, 8.9735, 5.1601



1.0999, 0.5567, 0.5154



# Previews

## White Background



This preview shows how the XYZ color 37.9626, 54.7387, 49.6391 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 37.9626, 54.7387, 49.6391 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

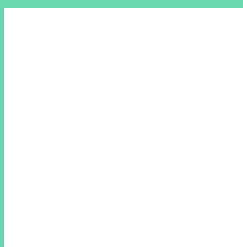
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.9626, 54.7387, 49.6391**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.9626, 54.7387, 49.6391.



This preview shows how white text looks on a background with the XYZ color 37.9626, 54.7387,



# 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

37.9626, 54.7387, 49.6391

### Protanopia

50.9852, 54.1376, 43.3597

### Deuteranopia

54.8291, 53.6698, 51.7255



## Tritanopia

43.7542, 54.4699, 79.4418

# Trichromacy



## Original Color

37.9626, 54.7387, 49.6391



## Protanomaly

44.4304, 53.4305, 45.5075



## Deuteranomaly

46.1090, 52.4579, 50.8752



## Tritanomaly

41.4962, 54.6709, 67.3970

# Monochromacy



## Original Color

37.9626, 54.7387, 49.6391



## Achromatopsia

42.3164, 44.5201, 48.4824



## Achromatomaly

39.3291, 47.0152, 48.5970

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.9626, 54.7387, 49.6391 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(105, 215, 176)` looks like.

```
.text, #text, p{  
    color:rgb(105, 215, 176)  
}
```

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(105, 215, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 215, 176) }
```

## Border

The CSS property to change the border of an element to XYZ 37.9626, 54.7387, 49.6391 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(105, 215, 176) }
```



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

```
.border{ border-color:rgb(105, 215, 176) }
```

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

Here you see how a box with a 4 pixel rgb(105, 215, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 215, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 215, 176);  
box-shadow:4px 4px 4px 4px rgb(105, 215,  
176) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.9626, 54.7387, 49.6391 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 215, 176) }
```

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

```
.background{ background-color: rgb(105,  
215, 176) }
```

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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