

# Converting Colors

XYZ(42.4133, 57.0391, 50.0636)

Have a look what the booklet for  
XYZ(42.4133, 57.0391, 50.0636)  
contains.

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# Color

**XYZ(42.2903, 56.9697,  
49.8416)**

# Conversions

## Conversions Part 1

Format	Color
Hex	88D7B0
RGB	136, 215, 176
RGB Percent	53%, 84%, 69%
CMY	0.4667, 0.1568, 0.3098
CMYK	0.37, 0.00, 0.18, 0.16
HSL	150°, 50%, 69%
HSV	150°, 37%, 84%
XYZ	42.2903, 56.9697, 49.8416
YIQ	186.9330, -34.5650, -28.8770

# Conversions

## Conversions Part 2

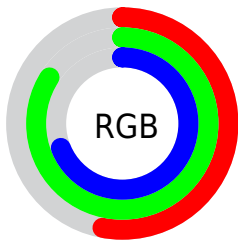
Format	Color
<a href="#">RYB</a>	<a href="#">136, 188, 215</a>
Decimal	<a href="#">8968112</a>
CIELab	<a href="#">80.16, -32.78, 11.66</a>
CIElCh	<a href="#">80, 34.792, 160.419</a>
Yxy	<a href="#">56.9697, 0.2836, 0.3821</a>
Android (android.graphics.Color)	<a href="#">4287158192 (0xFF88D7B0)</a>
YUV	<a href="#">186.9330, -5.3900, -44.6682</a>
Hunter-Lab	<a href="#">75.4783, -32.0739, 13.6830</a>

# Details

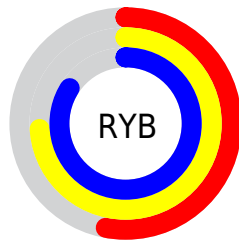
The XYZ color **42.2903, 56.9697, 49.8416** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **44.5684, 35.1520, 44.9959**, and the grayscale version is **47.2410, 49.7012, 54.1246**.

A 20% lighter version of the original color is **72.0637, 88.5527, 89.6381**, and **19.6256, 28.3655, 23.1796** is the 20% darker color. If you saturate the color by 10%, you get **38.1332, 54.9448, 44.3780**, and if you desaturate by 10%, it is **47.2330, 59.3932, 55.7732**.

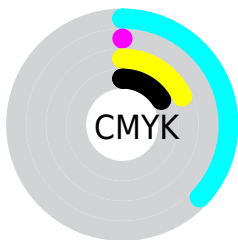
# Distribution



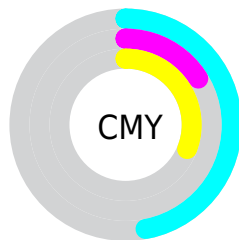
- Red (53%)
- Green (84%)
- Blue (69%)



- Red (53%)
- Yellow (74%)
- Blue (84%)



- Cyan (37%)
- Magenta (0%)
- Yellow (18%)
- Black (16%)



- Cyan (47%)
- Magenta (16%)
- Yellow (31%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.2903, 56.9697, 49.8416 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 42.2903, 56.9697, 49.8416 by changing the saturation by 10% instead.





 42.2903, 56.9697,  
49.8416


 42.2903, 56.9697,  
49.8416


346.6561,  
413.3358, 402.7635


 29.5208, 40.9809,  
34.9173


 77.9012, 100.4210,  
91.3340

 19.6214, 28.3042,  
23.3161


 101.4733,  
128.6523, 118.7392

 12.2268, 18.5551,  
14.6196

 129.3769,  
161.7332, 151.1417

 6.9716, 11.3492,  
8.4092

161.9775,  
200.0481, 188.9601

 3.4905, 6.3022,  
4.2664

199.6404,  
243.9814, 232.6130

 1.4182, 3.0297,  
1.7726

242.7308,

 0.2691, 1.1473,

293.9175, 282.5188

0.4098

291.6143,  
350.2408, 339.0961

■ 0.0000, 0.0180,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.2903, 56.9697,  
49.8416

■ 42.2903, 56.9697,  
49.8416

■ 38.1332, 54.9448,  
44.3780

■ 47.2330, 59.3932,  
55.7732

■ 34.7131, 53.2891,  
39.3666


■ 52.9971, 62.2288,  
62.1802


■ 31.9831, 51.9800,  
34.7964

■ 59.6218, 65.4982,  
69.0748


■ 29.8882, 50.9896,  
30.6544


■ 67.1421, 69.2192,  
76.4675

 28.3649, 50.2852,  
26.9267


 75.5912, 73.4088,  
84.3685

 27.3313, 49.8250,  
23.5979

 81.2235, 76.1357,  
92.6107

 27.0542, 49.7040,  
22.5961

 82.8444, 76.7841,  
101.1466

 83.5915, 77.0829,  
105.0805

# Harmonies

## Analogous

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



45.7796, 56.9697, 36.7967



42.2903, 56.9697, 49.8416



41.8140, 56.9697, 69.3638

# Triad

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



42.2903, 56.9697, 49.8416



56.6515, 56.9697, 108.9095



65.2065, 56.9697, 39.9995

# Complementary

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



42.2903, 56.9697, 49.8416



44.5684, 35.1520, 44.9959

# 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.



68.6962, 56.9697, 55.2328



42.2903, 56.9697, 49.8416



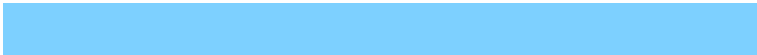
63.4787, 56.9697, 96.7636

# Square

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



42.2903, 56.9697, 49.8416



49.7055, 56.9697, 106.5767



68.0377, 56.9697, 76.0599



58.8476, 56.9697, 32.0327



# Rectangle

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



42.2903, 56.9697, 49.8416



43.2201, 56.9697, 83.9777



68.0377, 56.9697, 76.0599



66.7782, 56.9697, 44.2845

# Sweetspot

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



42.2919, 56.9720, 49.8429



83.3227, 94.2027, 97.1295



46.5379, 59.5529, 32.3355



17.5491, 20.0224, 20.4925



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

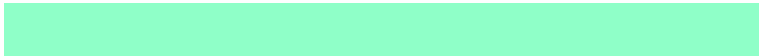


# Same Dimension

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



42.2919, 56.9720, 49.8429



57.4327, 81.4936, 67.1065



46.7215, 58.7439, 73.1689



12.5221, 13.9999, 14.5639



16.2347, 29.7492, 13.7973



1.0210, 1.8110, 1.0522



# Inverse Universe

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



44.5684, 35.1520, 44.9959



61.2477, 44.9310, 58.9867



41.2741, 33.8343, 27.6488



12.6763, 12.5220, 14.2355



18.3758, 9.2866, 9.2829

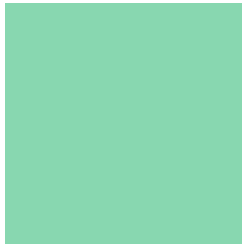


1.1501, 0.5768, 0.7799



# Previews

## White Background



This preview shows how the XYZ color 42.2903, 56.9697, 49.8416 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

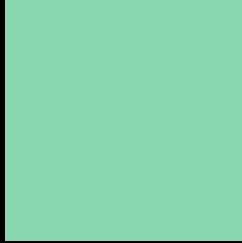
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.2903, 56.9697, 49.8416 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 42.2903, 56.9697, 49.8416**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.2903, 56.9697, 49.8416.



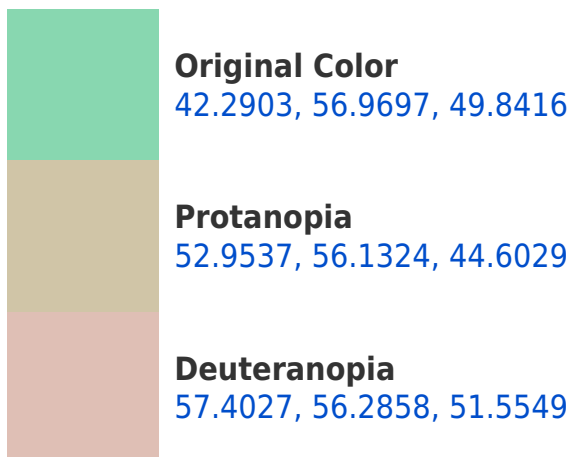
This preview shows how white text looks on a background with the XYZ color 42.2903, 56.9697,



# 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





## Tritanopia

48.1791, 56.7510, 79.6489

# Trichromacy



## Original Color

42.2903, 56.9697, 49.8416



## Protanomaly

48.1400, 56.0331, 46.3084



## Deuteranomaly

50.2768, 55.6396, 50.7375



## Tritanomaly

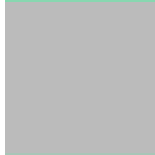
45.8844, 56.9332, 67.6023

# Monochromacy



## Original Color

42.2903, 56.9697, 49.8416



## Achromatopsia

47.2335, 49.6933, 54.1160



## Achromatomaly

44.6619, 51.6762, 52.4203

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.2903, 56.9697, 49.8416 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(136, 215, 176)` looks like.

```
.text, #text, p{  
    color:rgb(136, 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(136, 215, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 215, 176) }
```

## Border

The CSS property to change the border of an element to XYZ 42.2903, 56.9697, 49.8416 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(136, 215, 176) }
```



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

```
.border{ border-color:rgb(136, 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(136, 215, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(136, 215, 176); -webkit-box-shadow:4px 4px 4px 4px rgb(136, 215, 176); box-shadow:4px 4px 4px 4px rgb(136, 215, 176) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.2903, 56.9697, 49.8416 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 215, 176) }
```

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

```
.background{ background-color: rgb(136,  
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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