

# Converting Colors

XYZ(42.7817, 63.8045, 59.4701)

Have a look what the booklet for  
XYZ(42.7817, 63.8045, 59.4701)  
contains.

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# Color

**XYZ(42.7748, 63.8020,  
59.3508)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5DE8BF
RGB	93, 232, 191
RGB Percent	36%, 91%, 75%
CMY	0.6353, 0.0902, 0.2510
CMYK	0.60, 0.00, 0.18, 0.09
HSL	162°, 75%, 64%
HSV	162°, 60%, 91%
XYZ	42.7748, 63.8020, 59.3508
YIQ	185.7650, -69.6830, -42.2190

# Conversions

## Conversions Part 2

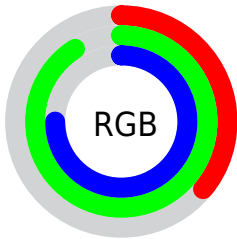
Format	Color
<a href="#">RYB</a>	<a href="#">93, 175, 232</a>
Decimal	<a href="#">6154431</a>
CIELab	<a href="#">83.86, -47.28, 8.80</a>
CIElCh	<a href="#">84, 48.089, 169.453</a>
Yxy	<a href="#">63.8020, 0.2578, 0.3845</a>
Android (android.graphics.Color)	<a href="#">4284344511</a> ( <a href="#">0xFF5DE8BF</a> )
YUV	<a href="#">185.7650, 2.5809, -81.3549</a>
Hunter-Lab	<a href="#">79.8762, -44.1940, 11.8587</a>

# Details

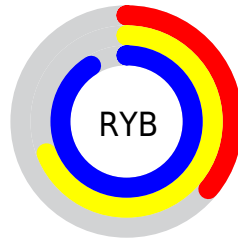
The XYZ color **42.7748, 63.8020, 59.3508** is a light color, and the websafe version is hex **66FFCC**. The color can be described as light muted spring green. A complement of this color would be **41.4983, 26.7074, 25.5245**, and the grayscale version is **46.5562, 48.9807, 53.3400**.

A 20% lighter version of the original color is **66.0661, 85.2040, 100.9596**, and **19.9174, 32.4949, 29.2671** is the 20% darker color. If you saturate the color by 10%, you get **40.0377, 62.4776, 55.3836**, and if you desaturate by 10%, it is **46.2627, 65.5126, 63.5396**.

# Distribution



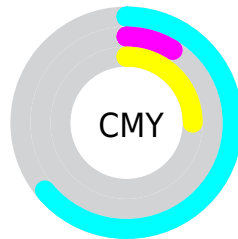
- Red (36%)
- Green (91%)
- Blue (75%)



- Red (36%)
- Yellow (69%)
- Blue (91%)



- Cyan (60%)
- Magenta (0%)
- Yellow (18%)
- Black (9%)




- Cyan (64%)
- Magenta (9%)
- Yellow (25%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.7748, 63.8020, 59.3508 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 42.7748, 63.8020, 59.3508 by changing the saturation by 10% instead.





 42.7748, 63.8020,  
59.3508


 42.7748, 63.8020,  
59.3508


348.6220,  
438.4743, 439.9387


 29.9022, 46.4903,  
42.4737


 78.6287, 110.3257,  
105.4215


 19.9121, 32.6329,  
29.1441


 102.3408,  
140.3066, 135.4521

 12.4390, 21.8454,  
18.9433


 130.3968,  
175.2793, 170.7044

 7.1177, 13.7433,  
11.4529

 163.1619,  
215.6282, 211.5968

 3.5828, 7.9424,  
6.2544

201.0017,  
261.7378, 258.5479

 1.4689, 4.0581,  
2.9291


244.2814,


 0.3046, 1.7061,


313.9924, 311.9762


1.0585

293.3664,  
372.7764, 372.3003


 0.0000, 0.4276,  
0.0000


 0.0000, 0.0000,  
0.0000


 42.7748, 63.8020,  
59.3508

 42.7748, 63.8020,  
59.3508


 40.0377, 62.4776,  
55.3836

 46.2627, 65.5126,  
63.5396


 37.9791, 61.4973,  
51.6281


 50.5550, 67.6322,  
67.9509


 36.5207, 60.8226,  
48.0793


 55.7062, 70.1903,  
72.5909


 35.5275, 60.3837,  
44.7285

 61.7646, 73.2120,  
77.4643


 35.5196, 60.3802,  
44.7000

 68.7747, 76.7200,  
82.5754

 76.7782, 80.7357,  
87.9284

 85.6640, 85.2020,  
93.5203

 86.6941, 85.6140,  
98.9445

 87.7628, 86.0415,  
104.5725

# Harmonies

## Analogous

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



46.4716, 63.8020, 38.0847



42.7748, 63.8020, 59.3508



43.4254, 63.8020, 90.7145

# Triad

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



42.7748, 63.8020, 59.3508



67.6658, 63.8020, 140.0782



74.8370, 63.8020, 33.9615

# Complementary

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



42.7748, 63.8020, 59.3508



41.4983, 26.7074, 25.5245

# 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.



81.8960, 63.8020, 51.8310



42.7748, 63.8020, 59.3508



77.4344, 63.8020, 114.5948

# Square

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



42.7748, 63.8020, 59.3508



56.9973, 63.8020, 143.8457



82.8982, 63.8020, 80.6776



64.4386, 63.8020, 26.5192



# Rectangle

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



42.7748, 63.8020, 59.3508



46.2632, 63.8020, 113.4113



82.8982, 63.8020, 80.6776



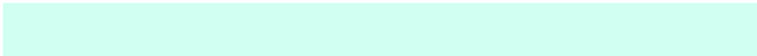
77.7281, 63.8020, 38.6573

# Sweetspot

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



42.7766, 63.8045, 59.3523



78.0289, 91.4683, 97.1227



40.7779, 63.6323, 20.4900



16.1924, 19.3236, 20.4004



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.



42.7766, 63.8045, 59.3523



48.9120, 77.0844, 67.4616



40.7221, 51.4366, 84.1289



14.6168, 16.2601, 17.5127



19.7760, 33.5425, 25.1187



1.5016, 2.4948, 2.0679



# Inverse Universe

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



41.4983, 26.7074, 25.5245



47.2562, 27.3125, 22.3707



42.0696, 31.5741, 14.2341



14.5510, 14.4376, 15.8361



19.1097, 9.7781, 4.2067

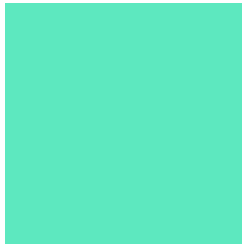


1.4518, 0.7384, 0.5196



# Previews

## White Background



This preview shows how the XYZ color 42.7748, 63.8020, 59.3508 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

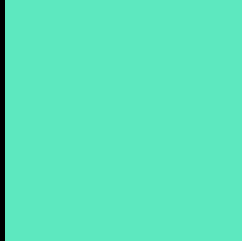
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.7748, 63.8020, 59.3508 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

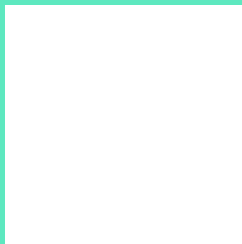
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.7748, 63.8020, 59.3508**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.7748, 63.8020, 59.3508.



This preview shows how white text looks on a background with the XYZ color 42.7748, 63.8020,



# 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

42.7748, 63.8020, 59.3508

### Protanopia

59.2621, 62.7454, 51.1071

### Deuteranopia

63.8023, 62.3747, 62.1029



## Tritanopia

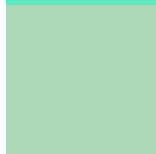
49.7850, 63.7662, 94.4782

# Trichromacy



## Original Color

42.7748, 63.8020, 59.3508



## Protanomaly

50.3367, 61.4149, 54.0010



## Deuteranomaly

52.4499, 60.8509, 60.6107



## Tritanomaly

47.0236, 63.8719, 80.3711

# Monochromacy



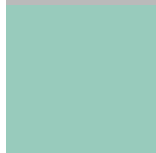
## Original Color

42.7748, 63.8020, 59.3508



## Achromatopsia

46.6715, 49.1021, 53.4722



## Achromatomaly

43.3819, 53.0181, 55.5240

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.7748, 63.8020, 59.3508 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(93, 232, 191)` looks like.

```
.text, #text, p{  
    color:rgb(93, 232, 191)  
}
```

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(93, 232, 191) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 232, 191) }
```

## Border

The CSS property to change the border of an element to XYZ 42.7748, 63.8020, 59.3508 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(93, 232, 191) }
```



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

```
.border{ border-color:rgb(93, 232, 191) }
```

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

Here you see how a box with a 4 pixel rgb(93, 232, 191) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 232, 191); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 232, 191);  
box-shadow:4px 4px 4px 4px rgb(93, 232,  
191) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.7748, 63.8020, 59.3508 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 232, 191) }
```

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

```
.background{ background-color: rgb(93, 232,  
191) }
```

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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