

# Converting Colors

XYZ(37.9700, 55.1778, 47.1772)

Have a look what the booklet for  
XYZ(37.9700, 55.1778, 47.1772)  
contains.

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# Color

**XYZ(37.9700, 55.1778,  
47.1772)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6BD8AB
RGB	107, 216, 171
RGB Percent	42%, 85%, 67%
CMY	0.5804, 0.1529, 0.3294
CMYK	0.50, 0.00, 0.21, 0.15
HSL	155°, 58%, 63%
HSV	155°, 50%, 85%
XYZ	37.9700, 55.1778, 47.1772
YIQ	178.2790, -50.5190, -37.1030

# Conversions

## Conversions Part 2

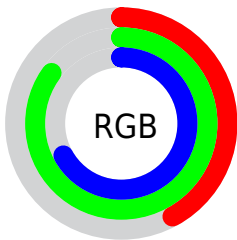
Format	Color
<a href="#">RYB</a>	<a href="#">107, 176, 216</a>
Decimal	<a href="#">7067819</a>
CIELab	<a href="#">79.14, -41.86, 12.70</a>
CIELCh	<a href="#">79, 43.741, 163.120</a>
Yxy	<a href="#">55.1778, 0.2706, 0.3932</a>
Android (android.graphics.Color)	<a href="#">4285257899 (0xFF6BD8AB)</a>
YUV	<a href="#">178.2790, -3.5885, -62.5117</a>
Hunter-Lab	<a href="#">74.2818, -38.7507, 14.3415</a>

# Details

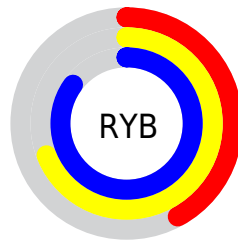
The XYZ color **37.9700, 55.1778, 47.1772** is a light color, and the websafe version is hex **66CC99**. A complement of this color would be **39.2460, 27.3828, 32.9250**, and the grayscale version is **42.5035, 44.7170, 48.6969**.

A 20% lighter version of the original color is **65.0045, 85.0103, 84.9340**, and **16.9828, 27.0314, 21.7753** is the 20% darker color. If you saturate the color by 10%, you get **34.8689, 53.6755, 42.7441**, and if you desaturate by 10%, it is **41.7801, 57.0418, 51.9453**.

# Distribution



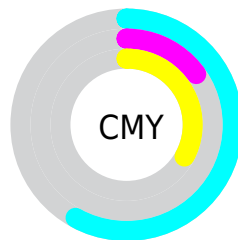
- Red (42%)
- Green (85%)
- Blue (67%)



- Red (42%)
- Yellow (69%)
- Blue (85%)



- Cyan (50%)
- Magenta (0%)
- Yellow (21%)
- Black (15%)



- Cyan (58%)
- Magenta (15%)
- Yellow (33%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.9700, 55.1778, 47.1772 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 37.9700, 55.1778, 47.1772 by changing the saturation by 10% instead.





 37.9700, 55.1778,  
47.1772


 37.9700, 55.1778,  
47.1772


328.7743,  
406.5856, 391.9356


 26.1365, 39.5441,  
32.8204


 71.3663, 97.8014,  
87.3308

 17.0590, 27.1833,  
21.7189


 93.6599, 125.5601,  
113.9647

 10.3721, 17.7109,  
13.4542

 120.1709,  
158.1292, 145.5281

 5.7105, 10.7426,  
7.6076

151.2646,  
195.8932, 182.4394

 2.7089, 5.8940,  
3.7608

187.3065,  
239.2365, 225.1173

 1.0017, 2.7808,  
1.4950

228.6618,

 0.0000, 1.0184,

288.5433, 273.9803

0.2142

275.6960,  
344.1982, 329.4469

■ 0.0000, 0.0000,  
0.0000

■ 37.9700, 55.1778,  
47.1772

■ 37.9700, 55.1778,  
47.1772

■ 34.8689, 53.6755,  
42.7441

■ 41.7801, 57.0418,  
51.9453

■ 32.4219, 52.5024,  
38.6340

■ 46.3398, 59.2842,  
57.0524

■ 30.5730, 51.6314,  
34.8395

■ 51.6921, 61.9282,  
62.5073

■ 29.2542, 51.0274,  
31.3511

■ 57.8751, 64.9935,  
68.3171

■ 28.3762, 50.6414,  
28.2979

■ 64.9246, 68.4983,  
74.4888

■ 72.8741, 72.4599,  
81.0291

■ 80.5660, 76.2813,  
87.8888

■ 81.8758, 76.8053,  
94.7862

■ 83.2510, 77.3553,  
102.0279

# Harmonies

## Analogous

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



41.7904, 55.1778, 31.3843



37.9700, 55.1778, 47.1772



37.7408, 55.1778, 71.6624

# Triad

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



37.9700, 55.1778, 47.1772



56.3471, 55.1778, 120.0907



65.6719, 55.1778, 32.8525

# Complementary

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



37.9700, 55.1778, 47.1772



39.2460, 27.3828, 32.9250

# 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.



70.5441, 55.1778, 49.8168



37.9700, 55.1778, 47.1772



64.7718, 55.1778, 102.4292

# Square

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



37.9700, 55.1778, 47.1772



47.7217, 55.1778, 118.8006



70.1975, 55.1778, 75.1421



57.4698, 55.1778, 24.8267



# Rectangle

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



37.9700, 55.1778, 47.1772



39.6085, 55.1778, 90.3507



70.1975, 55.1778, 75.1421



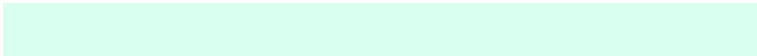
67.7922, 55.1778, 37.4596

# Sweetspot

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



37.9715, 55.1800, 47.1785



79.9118, 92.4777, 95.4608



40.2385, 56.8913, 22.7712



16.6986, 19.5929, 20.0490



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.



37.9715, 55.1800, 47.1785



50.3346, 77.9500, 61.5560



40.7525, 52.6712, 72.9870



12.5652, 14.0171, 14.7908



16.8500, 29.9954, 17.0377



1.0570, 1.8255, 1.2421



# Inverse Universe

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



39.2460, 27.3828, 32.9250



52.4157, 32.9376, 38.5611



37.2294, 28.1719, 17.3864



12.6337, 12.5050, 14.0114



17.8845, 9.0901, 6.6956

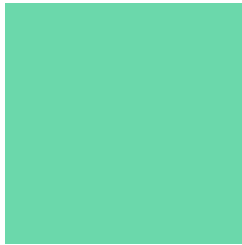


1.1193, 0.5645, 0.6179



# Previews

## White Background



This preview shows how the XYZ color 37.9700, 55.1778, 47.1772 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 37.9700, 55.1778, 47.1772 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

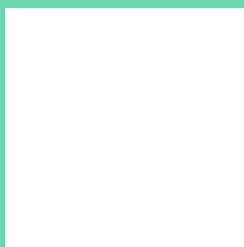
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 37.9700, 55.1778, 47.1772**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.9700, 55.1778, 47.1772.



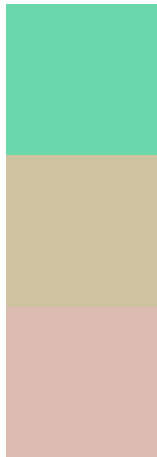
This preview shows how white text looks on a background with the XYZ color 37.9700, 55.1778,



# 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

37.9700, 55.1778, 47.1772

### Protanopia

51.0905, 54.2434, 41.0350

### Deuteranopia

55.4342, 54.3564, 49.1651



## Tritanopia

44.4171, 55.1747, 79.5429

# Trichromacy



## Original Color

37.9700, 55.1778, 47.1772



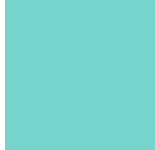
## Protanomaly

44.3989, 53.4674, 43.1021



## Deuteranomaly

46.5224, 53.0670, 48.3484



## Tritanomaly

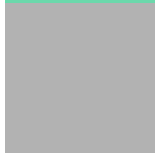
41.8990, 55.2767, 66.2188

# Monochromacy



## Original Color

37.9700, 55.1778, 47.1772



## Achromatopsia

42.3164, 44.5201, 48.4824



## Achromatomaly

39.5364, 47.4698, 47.6362

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.9700, 55.1778, 47.1772 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(107, 216, 171)` looks like.

```
.text, #text, p{  
    color:rgb(107, 216, 171)  
}
```

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(107, 216, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(107, 216, 171) }
```

## Border

The CSS property to change the border of an element to XYZ 37.9700, 55.1778, 47.1772 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(107, 216, 171) }
```



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

```
.border{ border-color:rgb(107, 216, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(107, 216, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(107, 216, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(107, 216, 171);  
box-shadow:4px 4px 4px 4px rgb(107, 216,  
171) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.9700, 55.1778, 47.1772 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(107, 216, 171) }
```

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

```
.background{ background-color: rgb(107,  
216, 171) }
```

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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