

# Converting Colors

XYZ(42.2046, 46.8041, 47.9462)

Have a look what the booklet for  
XYZ(42.2046, 46.8041, 47.9462)  
contains.

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# Color

**XYZ(42.1900, 46.9103,  
47.9052)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ABBAB0
RGB	171, 186, 176
RGB Percent	67%, 73%, 69%
CMY	0.3294, 0.2706, 0.3098
CMYK	0.08, 0.00, 0.05, 0.27
HSL	140°, 10%, 70%
HSV	140°, 8%, 73%
XYZ	42.1900, 46.9103, 47.9052
YIQ	180.3750, -5.7300, -6.2900

# Conversions

## Conversions Part 2

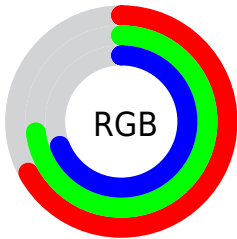
<b>Format</b>	<b>Color</b>
<b>RYB</b>	171, 182, 186
Decimal	11254448
CIELab	74.13, -7.09, 3.29
CIELCh	74, 7.815, 155.134
Yxy	46.9103, 0.3079, 0.3424
Android (android.graphics.Color)	4289444528 (0xFFABBAB0)
YUV	180.3750, -2.1569, -8.2219
Hunter-Lab	68.4911, -9.9048, 6.4742

# Details

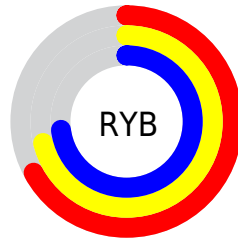
The XYZ color **42.1900, 46.9103, 47.9052** is a light color, and the websafe version is hex **CCCCCC**. A complement of this color would be **43.1549, 42.9024, 49.7249**, and the grayscale version is **43.5985, 45.8690, 49.9513**.

A 20% lighter version of the original color is **77.6816, 85.4992, 88.7527**, and **19.6334, 22.1522, 22.3098** is the 20% darker color. If you saturate the color by 10%, you get **37.2486, 44.4996, 41.5588**, and if you desaturate by 10%, it is **47.8163, 49.6638, 54.8709**.

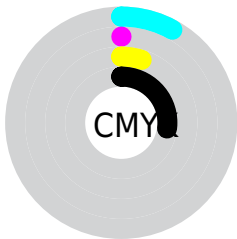
# Distribution



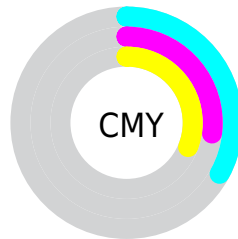
- Red (67%)
- Green (73%)
- Blue (69%)



- Red (67%)
- Yellow (71%)
- Blue (73%)



- Cyan (8%)
- Magenta (0%)
- Yellow (5%)
- Black (27%)



- Cyan (33%)
- Magenta (27%)
- Yellow (31%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.1900, 46.9103, 47.9052 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 42.1900, 46.9103, 47.9052 by changing the saturation by 10% instead.



■ 42.1900, 46.9103,  
47.9052

■ 42.1900, 46.9103,  
47.9052

346.2482,  
374.4564, 394.9141

■ 29.4419, 32.9647,  
33.3924

■ 77.7505, 85.5797,  
88.4273

■ 19.5613, 22.0994,  
22.1536

101.2935,  
111.0724, 115.2737

■ 12.1830, 13.9300,  
13.7704

129.1655,  
141.1828, 147.0683

■ 6.9415, 8.0720,  
7.8242

161.7319,  
176.2955, 184.2297

■ 3.4715, 4.1410,  
3.8965

199.3580,  
216.7948, 227.1765

■ 1.4077, 1.7528,  
1.5688

242.4092,

■ 0.2617, 0.4575,

263.0651, 276.3271

0.2684

291.2508,  
315.4909, 332.1001

■ 0.0000, 0.0000,  
0.0000

■ 42.1900, 46.9103,  
47.9052

■ 42.1900, 46.9103,  
47.9052

■ 37.2486, 44.4996,  
41.5588

■ 47.8163, 49.6638,  
54.8709

■ 32.9616, 42.4123,  
35.8116

■ 54.1488, 52.7667,  
62.4690

■ 29.3017, 40.6361,  
30.6473

■ 61.2126, 56.2330,  
70.7160

■ 26.2384, 39.1556,  
26.0473

■ 69.0305, 60.0741,  
79.6270

■ 23.7385, 37.9540,  
21.9922

■ 74.2338, 62.5532,  
89.0579

■ 21.7652, 37.0128,  
18.4614

■ 76.1197, 63.3075,  
98.9887

■ 20.2774, 36.3113,  
15.4330

■ 76.8498, 63.5995,  
102.8333

■ 19.2271, 35.8252,  
12.8835

■ 18.5413, 35.5173,  
10.7866

# Harmonies

## Analogous

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



43.0563, 46.9103, 45.0313



42.1900, 46.9103, 47.9052



41.9604, 46.9103, 51.7700

# Triad

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



42.1900, 46.9103, 47.9052



44.8280, 46.9103, 59.1428



46.8236, 46.9103, 46.7700

# Complementary

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



42.1900, 46.9103, 47.9052



43.1549, 42.9024, 49.7249

# 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.



47.3206, 46.9103, 50.3909



42.1900, 46.9103, 47.9052



46.1532, 46.9103, 57.6417

# Square

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



42.1900, 46.9103, 47.9052



43.4650, 46.9103, 58.3923



47.0728, 46.9103, 54.3865



45.7278, 46.9103, 44.4003



# Rectangle

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



42.1900, 46.9103, 47.9052



42.1951, 46.9103, 54.4205



47.0728, 46.9103, 54.3865



47.0673, 46.9103, 47.8739

# Sweetspot

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



42.1913, 46.9123, 47.9062



82.4699, 87.9607, 94.3080



44.0261, 47.9143, 45.4568



18.1848, 19.3819, 20.7972



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.



42.1913, 46.9123, 47.9062



74.4885, 84.0588, 84.3212



42.9284, 47.2071, 51.7876



9.0105, 10.1082, 10.2127



12.4293, 23.8727, 7.1825



0.4677, 0.8534, 0.4085



# Inverse Universe

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



43.1549, 42.9024, 49.7249



76.6584, 75.0280, 88.4167



42.4297, 42.6124, 45.9065



9.2502, 9.1105, 10.6652



16.1074, 8.0167, 13.7185



0.5953, 0.2936, 0.6281



# Previews

## White Background



This preview shows how the XYZ color 42.1900, 46.9103, 47.9052 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

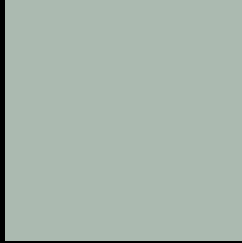
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.1900, 46.9103, 47.9052 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

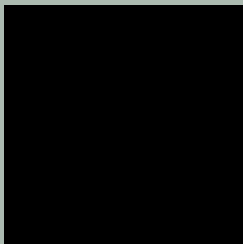
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

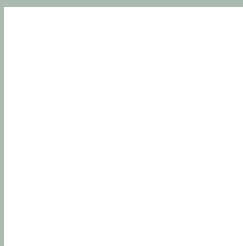
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.1900, 46.9103, 47.9052**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.1900, 46.9103, 47.9052.



This preview shows how white text looks on a background with the XYZ color 42.1900, 46.9103,



# 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

42.1900, 46.9103, 47.9052

### Protanopia

44.5602, 46.6297, 46.1870

### Deuteranopia

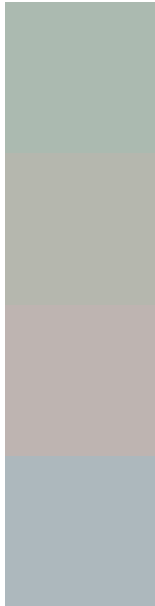
47.6486, 46.6825, 48.6188



## Tritanopia

44.4671, 46.8969, 59.5317

# Trichromacy



## Original Color

42.1900, 46.9103, 47.9052

## Protanomaly

43.6295, 46.7467, 46.7679

## Deuteranomaly

45.4923, 46.7640, 48.2236

## Tritanomaly

43.5594, 46.8393, 54.8892

# Monochromacy



## Original Color

42.1900, 46.9103, 47.9052

## Achromatopsia

43.3819, 45.6411, 49.7032

## Achromatomaly

42.9961, 46.0577, 49.2717

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.1900, 46.9103, 47.9052 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(171, 186, 176)` looks like.

```
.text, #text, p{  
    color:rgb(171, 186, 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(171, 186, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(171, 186, 176) }
```

## Border

The CSS property to change the border of an element to XYZ 42.1900, 46.9103, 47.9052 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(171, 186, 176) }
```



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

```
.border{ border-color:rgb(171, 186, 176) }
```

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

Here you see how a box with a 4 pixel rgb(171, 186, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(171, 186, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(171, 186, 176);  
box-shadow:4px 4px 4px 4px rgb(171, 186,  
176) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.1900, 46.9103, 47.9052 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(171, 186, 176) }
```

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

```
.background{ background-color: rgb(171,  
186, 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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