

# Converting Colors

XYZ(49.4858, 65.9189, 41.7059)

Have a look what the booklet for  
XYZ(49.4858, 65.9189, 41.7059)  
contains.

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# Color

**XYZ(49.4700, 65.9941,  
41.5833)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A6E49C
RGB	166, 228, 156
RGB Percent	65%, 89%, 61%
CMY	0.3490, 0.1059, 0.3882
CMYK	0.27, 0.00, 0.32, 0.11
HSL	112°, 57%, 75%
HSV	112°, 32%, 89%
XYZ	49.4700, 65.9941, 41.5833
YIQ	201.2540, -13.8400, -35.5360

# Conversions

## Conversions Part 2

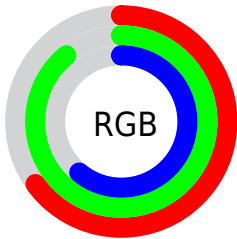
Format	Color
<a href="#">RYB</a>	<a href="#">156, 228, 218</a>
Decimal	<a href="#">10937500</a>
CIELab	<a href="#">84.99, -33.12, 29.02</a>
CIELCh	<a href="#">85, 44.036, 138.774</a>
Yxy	<a href="#">65.9941, 0.3150, 0.4202</a>
Android (android.graphics.Color)	<a href="#">4289127580 (0xFFA6E49C)</a>
YUV	<a href="#">201.2540, -22.3102, -30.9178</a>
Hunter-Lab	<a href="#">81.2368, -33.4648, 26.5165</a>

# Details

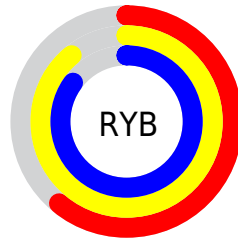
The XYZ color **49.4700, 65.9941, 41.5833** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **54.8085, 44.2858, 79.0616**, and the grayscale version is **55.8166, 58.7234, 63.9498**.

A 20% lighter version of the original color is **77.6421, 91.7527, 75.2459**, and **23.9333, 33.9493, 18.3881** is the 20% darker color. If you saturate the color by 10%, you get **43.9116, 63.3331, 32.1736**, and if you desaturate by 10%, it is **56.0226, 69.1296, 52.9340**.

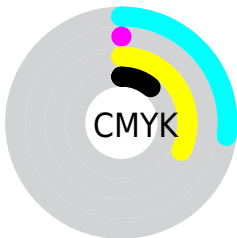
# Distribution



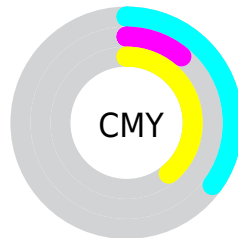
- Red (65%)
- Green (89%)
- Blue (61%)



- Red (61%)
- Yellow (89%)
- Blue (85%)



- Cyan (27%)
- Magenta (0%)
- Yellow (32%)
- Black (11%)




- Cyan (35%)
- Magenta (11%)
- Yellow (39%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.4700, 65.9941, 41.5833 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 49.4700, 65.9941, 41.5833 by changing the saturation by 10% instead.





 49.4700, 65.9941,  
41.5833


 49.4700, 65.9941,  
41.5833


375.0760,  
446.3558, 368.5012

 35.2085, 48.2676,  
28.4520


 88.5856, 113.4779,  
78.8318

 23.9908, 34.0389,  
18.4247

 114.1705,  
144.0039, 103.7862

 15.4515, 22.9235,  
11.0827

144.2606,  
179.5653, 133.5186

 9.2252, 14.5370,  
6.0076

179.2212,  
220.5464, 168.4477

 4.9467, 8.4951,  
2.7809

219.4177,  
267.3316, 208.9920

 2.2504, 4.4133,  
0.9839

265.2154,

 0.7691, 1.9074,

320.3053, 255.5699

0.0000

316.9797,  
379.8519, 308.6002

0.0000, 0.5528,  
0.0000

0.0000, 0.0000,  
0.0000

49.4700, 65.9941,  
41.5833

49.4700, 65.9941,  
41.5833

43.9116, 63.3331,  
32.1736

56.0226, 69.1296,  
52.9340

39.2936, 61.1155,  
24.5922

63.6097, 72.7525,  
66.3212

35.5648, 59.3193,  
18.7214

72.2755, 76.8853,  
81.8395

32.6670, 57.9174,  
14.4282

82.0600, 81.5470,  
99.5761

■ 30.5346, 56.8794,  
11.5600

■ 87.0347, 83.9695,  
106.2282

■ 29.0921, 56.1703,  
9.9337

■ 28.3299, 55.7912,  
9.2756

# Harmonies

## Analogous

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



56.7963, 65.9941, 31.6126



49.4700, 65.9941, 41.5833



45.8452, 65.9941, 61.7568

# Triad

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



49.4700, 65.9941, 41.5833



59.0920, 65.9941, 139.6918



82.5297, 65.9941, 55.7002

# Complementary

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



49.4700, 65.9941, 41.5833



54.8085, 44.2858, 79.0616

# 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.



83.3109, 65.9941, 83.0010



49.4700, 65.9941, 41.5833



69.0534, 65.9941, 136.8186

# Square

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



49.4700, 65.9941, 41.5833



50.9980, 65.9941, 121.1530



78.1594, 65.9941, 114.1057



76.1256, 65.9941, 38.1580



# Rectangle

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



49.4700, 65.9941, 41.5833



45.7306, 65.9941, 80.4970



78.1594, 65.9941, 114.1057



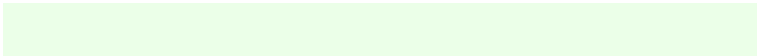
83.4820, 65.9941, 63.8573

# Sweetspot

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



49.4717, 65.9969, 41.5848



84.6718, 95.0515, 90.2653



62.8630, 68.6263, 41.3865



17.7875, 20.1848, 18.7219



0.0000, 0.0000, 0.0000



20.3446, 21.4041, 23.3091

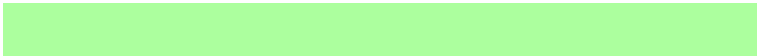


# Same Dimension

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



49.4717, 65.9969, 41.5848



58.8560, 82.7125, 45.2560



49.8168, 65.9022, 53.9202



14.3745, 16.1846, 15.2708



16.4157, 32.2441, 5.3585



1.2725, 2.4134, 0.3988



# Inverse Universe

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



54.8085, 44.2858, 79.0616



66.7557, 50.5046, 100.8377



54.6414, 44.5749, 62.1014



14.7880, 14.5085, 18.1653



21.3581, 10.0764, 43.2024



1.6327, 0.7727, 3.1951



# Previews

## White Background



This preview shows how the XYZ color 49.4700, 65.9941, 41.5833 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 49.4700, 65.9941, 41.5833 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 49.4700, 65.9941, 41.5833**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.4700, 65.9941, 41.5833.



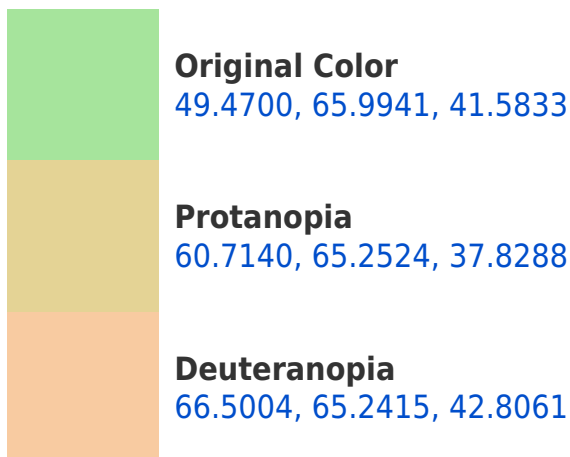
This preview shows how white text looks on a background with the XYZ color 49.4700, 65.9941,

41.5833.

# 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

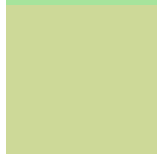
58.8892, 65.8443, 88.2027

# Trichromacy



## Original Color

49.4700, 65.9941, 41.5833



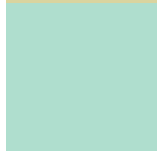
## Protanomaly

55.6572, 64.8718, 39.2938



## Deuteranomaly

58.7149, 64.4956, 42.1552



## Tritanomaly

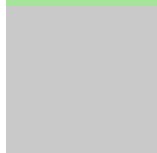
54.9411, 65.8127, 68.1999

# Monochromacy



## Original Color

49.4700, 65.9941, 41.5833



## Achromatopsia

55.5167, 58.4078, 63.6061



## Achromatomaly

52.7903, 60.7827, 54.8488

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.4700, 65.9941, 41.5833 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(166, 228, 156)` looks like.

```
.text, #text, p{  
    color:rgb(166, 228, 156)  
}
```

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(166, 228, 156) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 228, 156) }
```

## Border

The CSS property to change the border of an element to XYZ 49.4700, 65.9941, 41.5833 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(166, 228, 156) }
```



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

```
.border{ border-color:rgb(166, 228, 156) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 228, 156)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 228, 156); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 228, 156);  
box-shadow:4px 4px 4px 4px rgb(166, 228,  
156) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.4700, 65.9941, 41.5833 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 228, 156) }
```

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

```
.background{ background-color: rgb(166,  
228, 156) }
```

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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