

# Converting Colors

XYZ(41.5395, 51.4029, 28.4284)

Have a look what the booklet for  
XYZ(41.5395, 51.4029, 28.4284)  
contains.

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# Color

**XYZ(41.3991, 51.2025,  
28.4700)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	ACC781
RGB	172, 199, 129
RGB Percent	67%, 78%, 51%
CMY	0.3255, 0.2196, 0.4941
CMYK	0.14, 0.00, 0.35, 0.22
HSL	83°, 38%, 64%
HSV	83°, 35%, 78%
XYZ	41.3991, 51.2025, 28.4700
YIQ	182.9470, 6.3780, -27.4940

# Conversions

## Conversions Part 2

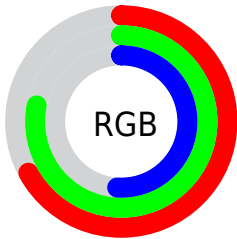
<b>Format</b>	<b>Color</b>
<b>RYB</b>	129, 199, 156
Decimal	11323265
CIELab	76.80, -20.99, 32.11
CIELCh	77, 38.365, 123.175
Yxy	51.2025, 0.3419, 0.4229
Android (android.graphics.Color)	4289513345 (0xFFACC781)
YUV	182.9470, -26.5959, -9.6005
Hunter-Lab	71.5559, -21.9506, 26.4994

# Details

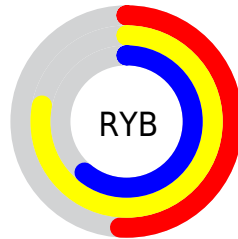
The XYZ color **41.3991, 51.2025, 28.4700** is a light color, and the websafe version is hex **99CC99**. A complement of this color would be **31.8715, 26.8934, 57.5469**, and the grayscale version is **45.1206, 47.4704, 51.6952**.

A 20% lighter version of the original color is **76.3022, 91.4329, 58.4265**, and **19.1444, 24.7372, 11.1629** is the 20% darker color. If you saturate the color by 10%, you get **38.5669, 49.8823, 22.0923**, and if you desaturate by 10%, it is **44.5888, 52.6804, 36.2113**.

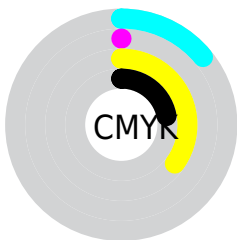
# Distribution



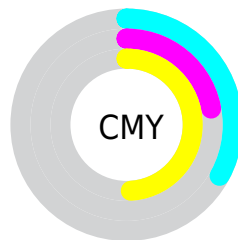
- Red (67%)
- Green (78%)
- Blue (51%)



- Red (51%)
- Yellow (78%)
- Blue (61%)



- Cyan (14%)
- Magenta (0%)
- Yellow (35%)
- Black (22%)



- Cyan (33%)
- Magenta (22%)
- Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.3991, 51.2025, 28.4700 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 41.3991, 51.2025, 28.4700 by changing the saturation by 10% instead.



■ 41.3991, 51.2025,  
28.4700

■ 41.3991, 51.2025,  
28.4700

343.0201,  
391.3500, 308.6883

■ 28.8201, 36.3698,  
18.4381

■ 76.5603, 91.9540,  
58.2661

■ 19.0884, 24.7199,  
11.0923

■ 99.8731, 118.6416,  
78.8673

■ 11.8385, 15.8685,  
6.0140

■ 127.4947,  
150.0497, 103.8288

■ 6.7052, 9.4312,  
2.7847

159.7903,  
186.5625, 133.5690

■ 3.3231, 5.0235,  
0.9858

197.1253,  
228.5646, 168.5065

■ 1.3269, 2.2610,  
0.0000

239.8650,

■ 0.2032, 0.7530,

276.4403, 209.0599

0.0000

288.3748,  
330.5740, 255.6476

■ 0.0000, 0.0000,  
0.0000

■ 41.3991, 51.2025,  
28.4700

■ 41.3991, 51.2025,  
28.4700

■ 38.5669, 49.8823,  
22.0923

■ 44.5888, 52.6804,  
36.2113

■ 36.0718, 48.7063,  
16.9956

■ 48.1477, 54.3157,  
45.3856

■ 33.8969, 47.6691,  
13.0938


■ 52.0914, 56.1165,  
56.0617


■ 32.0217, 46.7626,  
10.2886


■ 56.4333, 58.0884,  
68.3027


■ 30.4228, 45.9770,  
8.4661


■ 61.1863, 60.2367,  
82.1685


 29.0722, 45.3010,  
7.4874

 66.3626, 62.5665,  
97.7156

 28.4839, 45.0038,  
7.1853

 69.7567, 64.1956,  
103.3222

 72.2147, 65.4627,  
103.4372

 74.7818, 66.7861,  
103.5573

# Harmonies

## Analogous

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



47.8950, 51.2025, 24.5302



41.3991, 51.2025, 28.4700



37.2093, 51.2025, 39.5410

# Triad

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



41.3991, 51.2025, 28.4700



42.6169, 51.2025, 99.7429



64.0297, 51.2025, 53.5590

# Complementary

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



41.3991, 51.2025, 28.4700



31.8715, 26.8934, 57.5469

# 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.



62.2627, 51.2025, 75.8771



41.3991, 51.2025, 28.4700



49.4462, 51.2025, 106.1445

# Square

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



41.3991, 51.2025, 28.4700



37.8616, 51.2025, 80.7007



56.7381, 51.2025, 96.5051



61.3531, 51.2025, 36.5595



# Rectangle

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



41.3991, 51.2025, 28.4700



36.0447, 51.2025, 51.1196



56.7381, 51.2025, 96.5051



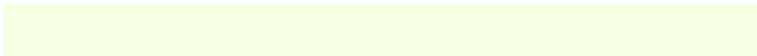
63.9364, 51.2025, 60.6537

# Sweetspot

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



41.4004, 51.2048, 28.4711



86.9887, 96.3285, 86.6453



39.3781, 37.4499, 25.9227



18.4192, 20.5269, 18.0086



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.



41.4004, 51.2048, 28.4711



68.7369, 87.9036, 41.3198



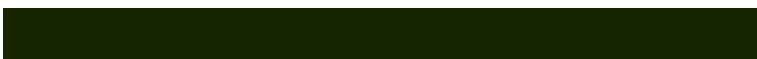
34.7314, 47.7668, 28.1590



11.1124, 12.2049, 11.3328



18.4152, 28.9887, 4.6248



0.9511, 1.4134, 0.2227



# Inverse Universe

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



31.8715, 26.8934, 57.5469



49.6640, 39.2149, 99.5594



39.6050, 30.8802, 57.9088



10.4371, 10.4836, 13.3909



8.6760, 3.7069, 35.0026



0.4915, 0.2171, 1.6611



# Previews

## White Background



This preview shows how the XYZ color 41.3991, 51.2025, 28.4700 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

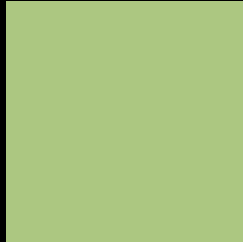
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 41.3991, 51.2025, 28.4700 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

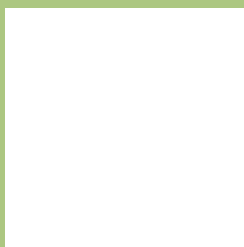
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 41.3991, 51.2025, 28.4700**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.3991, 51.2025, 28.4700.



This preview shows how white text looks on a background with the XYZ color 41.3991, 51.2025,



# 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

41.3991, 51.2025, 28.4700

### Protanopia

47.0761, 50.8550, 26.7369

### Deuteranopia

51.8088, 50.7488, 29.2552



## Tritanopia

48.9613, 51.3020, 65.0793

# Trichromacy



## Original Color

41.3991, 51.2025, 28.4700

## Protanomaly

44.8282, 50.9837, 27.2168

## Deuteranomaly

47.6017, 50.7542, 29.1175

## Tritanomaly

45.5962, 50.8980, 49.0161

# Monochromacy



## Original Color

41.3991, 51.2025, 28.4700

## Achromatopsia

45.0092, 47.3531, 51.5676

## Achromatomaly

43.3989, 48.6232, 41.7482

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.3991, 51.2025, 28.4700 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(172, 199, 129)` looks like.

```
.text, #text, p{  
    color:rgb(172, 199, 129)  
}
```

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(172, 199, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 199, 129) }
```

## Border

The CSS property to change the border of an element to XYZ 41.3991, 51.2025, 28.4700 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(172, 199, 129) }
```



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

```
.border{ border-color:rgb(172, 199, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 199, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 199, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 199, 129);  
box-shadow:4px 4px 4px 4px rgb(172, 199,  
129) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.3991, 51.2025, 28.4700 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 199, 129) }
```

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

```
.background{ background-color: rgb(172,  
199, 129) }
```

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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