

# Converting Colors

XYZ(29.4123, 44.3268, 27.8208)

Have a look what the booklet for  
XYZ(29.4123, 44.3268, 27.8208)  
contains.

<b>XYZ(29.4082, 44.3423, 27.7778)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(29.4082, 44.3423,  
27.7778)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66C581
RGB	102, 197, 129
RGB Percent	40%, 77%, 51%
CMY	0.6000, 0.2274, 0.4941
CMYK	0.48, 0.00, 0.35, 0.23
HSL	137°, 45%, 59%
HSV	137°, 48%, 77%
XYZ	29.4082, 44.3423, 27.7778
YIQ	160.8430, -34.7920, -41.2880

# Conversions

## Conversions Part 2

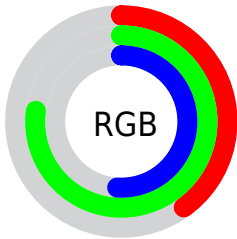
<b>Format</b>	<b>Color</b>
<b>RYB</b>	102, 176, 197
Decimal	6735233
CIELab	72.46, -43.10, 25.67
CIELCh	72, 50.163, 149.226
Yxy	44.3423, 0.2897, 0.4367
Android (android.graphics.Color)	4284925313 (0xFF66C581)
YUV	160.8430, -15.6986, -51.6053
Hunter-Lab	66.5900, -37.7014, 21.8804

# Details

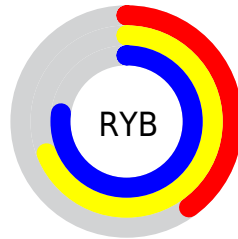
The XYZ color **29.4082, 44.3423, 27.7778** is a dark color, and the websafe version is hex **66CC99**. A complement of this color would be **35.0345, 24.2763, 40.8711**, and the grayscale version is **33.8865, 35.6512, 38.8242**.

A 20% lighter version of the original color is **57.9859, 81.5301, 56.9367**, and **12.1230, 20.4460, 10.7047** is the 20% darker color. If you saturate the color by 10%, you get **26.5618, 42.9771, 23.0851**, and if you desaturate by 10%, it is **32.9168, 46.0364, 33.1787**.

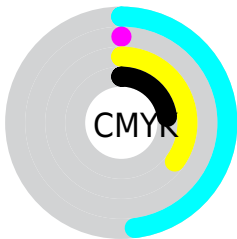
# Distribution



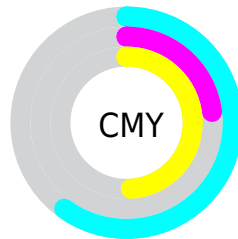
- Red (40%)
- Green (77%)
- Blue (51%)



- Red (40%)
- Yellow (69%)
- Blue (77%)



- Cyan (48%)
- Magenta (0%)
- Yellow (35%)
- Black (23%)




- Cyan (60%)
- Magenta (23%)
- Yellow (49%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 29.4082, 44.3423, 27.7778 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 29.4082, 44.3423, 27.7778 by changing the saturation by 10% instead.





 29.4082, 44.3423,  
27.7778


 29.4082, 44.3423,  
27.7778


291.0957,  
364.1033, 305.2821


 19.5357, 30.9397,  
17.9206


 58.1181, 81.7326,  
57.1483

 12.1643, 20.5529,  
10.7242

 77.6862, 106.4890,  
77.4988

 6.9286, 12.7976,  
5.7699


 101.2168,  
135.7989, 102.1841

 3.4634, 7.2893,  
2.6391

 129.0753,  
170.0466, 131.6227

 1.4033, 3.6437,  
0.9126

161.6271,  
209.6165, 166.2333

 0.2586, 1.4763,  
0.0000

199.2375,

 0.0000, 0.2720,

254.8930, 206.4344

0.0000

242.2720,  
306.2604, 252.6445

■ 0.0000, 0.0000,  
0.0000

■ 29.4082, 44.3423,  
27.7778

■ 29.4082, 44.3423,  
27.7778

■ 26.5618, 42.9771,  
23.0851

■ 32.9168, 46.0364,  
33.1787

■ 24.3307, 41.9136,  
19.0682

■ 37.1234, 48.0736,  
39.3125

■ 22.6672, 41.1289,  
15.6962


■ 42.0656, 50.4739,  
46.2065


■ 21.5143, 40.5945,  
12.9350


■ 47.7770, 53.2542,  
53.8857


■ 20.7873, 40.2674,  
10.7461


■ 54.2892, 56.4302,  
62.3738

 20.6807, 40.2197,  
10.4133

 61.6319, 60.0168,  
71.6936

 69.8333, 64.0281,  
81.8670

 77.2060, 67.5938,  
92.8348

 79.2571, 68.4142,  
103.6357

# Harmonies

## Analogous

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



34.5345, 44.3423, 17.4973



29.4082, 44.3423, 27.7778



27.6049, 44.3423, 47.6408

# Triad

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



29.4082, 44.3423, 27.7778



41.9218, 44.3423, 113.3022



58.3938, 44.3423, 28.5557

# Complementary

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



29.4082, 44.3423, 27.7778



35.0345, 24.2763, 40.8711

# 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.



61.0635, 44.3423, 48.9273



29.4082, 44.3423, 27.7778



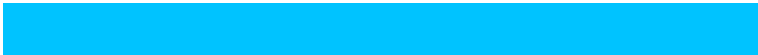
50.8011, 44.3423, 102.9333

# Square

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



29.4082, 44.3423, 27.7778



34.1949, 44.3423, 101.8715



58.1151, 44.3423, 76.9888



51.2430, 44.3423, 17.8263

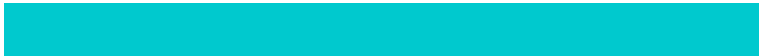


# Rectangle

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



29.4082, 44.3423, 27.7778



28.3094, 44.3423, 65.7300



58.1151, 44.3423, 76.9888



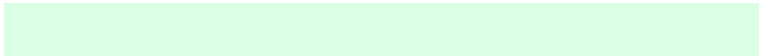
59.8851, 44.3423, 34.2309

# Sweetspot

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



29.4093, 44.3441, 27.7788



79.2690, 92.3088, 88.0953



38.9617, 49.4493, 20.0619



16.5010, 19.5312, 18.2251



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.



29.4093, 44.3441, 27.7788



47.2710, 76.8262, 40.8276



33.3249, 45.9103, 48.3977



10.6193, 11.9366, 11.9456



13.6335, 26.4658, 7.0144



0.6774, 1.2659, 0.5000



# Inverse Universe

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



35.0345, 24.2763, 40.8711



58.5140, 36.5986, 66.9080



31.3277, 22.7935, 21.3515



10.9496, 10.7632, 12.7179



18.3454, 9.0877, 17.5605



0.8986, 0.4423, 0.9893



# Previews

## White Background



This preview shows how the XYZ color 29.4082, 44.3423, 27.7778 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

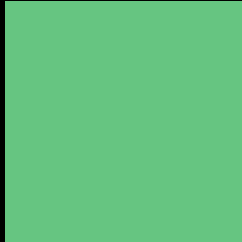
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 29.4082, 44.3423, 27.7778 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 29.4082, 44.3423, 27.7778**

## **Background**



This preview shows how black text looks on a background with the XYZ color 29.4082, 44.3423, 27.7778.



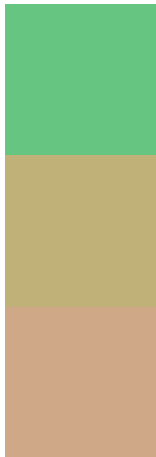
This preview shows how white text looks on a background with the XYZ color 29.4082, 44.3423,

27.7778.

# 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

29.4082, 44.3423, 27.7778

### Protanopia

40.5982, 43.8767, 24.0986

### Deuteranopia

44.2933, 43.3906, 28.9624



## Tritanopia

36.5084, 44.2713, 63.1209

# Trichromacy



## Original Color

29.4082, 44.3423, 27.7778



## Protanomaly

35.0137, 43.0820, 25.2091



## Deuteranomaly

36.7159, 42.3687, 28.4331



## Tritanomaly

33.2773, 43.9069, 47.7953

# Monochromacy



## Original Color

29.4082, 44.3423, 27.7778



## Achromatopsia

33.8758, 35.6400, 38.8120



## Achromatomaly

31.3761, 38.0175, 34.1182

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 29.4082, 44.3423, 27.7778 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(102, 197, 129)` looks like.

```
.text, #text, p{  
    color:rgb(102, 197, 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(102, 197, 129) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 197, 129) }
```

## Border

The CSS property to change the border of an element to XYZ 29.4082, 44.3423, 27.7778 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(102, 197, 129) }
```



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

```
.border{ border-color:rgb(102, 197, 129) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 197, 129)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 197, 129); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 197, 129);  
box-shadow:4px 4px 4px 4px rgb(102, 197,  
129) }
```

# Background

The CSS property to change the background color of an element to XYZ 29.4082, 44.3423, 27.7778 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 197, 129) }
```

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

```
.background{ background-color: rgb(102,  
197, 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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