

# Converting Colors

XYZ(67.1020, 69.1468, 22.3804)

Have a look what the booklet for  
XYZ(67.1020, 69.1468, 22.3804)  
contains.

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# Color

**XYZ(67.1818, 69.3063,  
22.4070)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFD466
RGB	255, 212, 102
RGB Percent	100%, 83%, 40%
CMY	0.0000, 0.1686, 0.6000
CMYK	0.00, 0.17, 0.60, 0.00
HSL	43°, 100%, 70%
HSV	43°, 60%, 100%
XYZ	67.1818, 69.3063, 22.4070
YIQ	212.3170, 60.9380, -25.0940

# Conversions

## Conversions Part 2

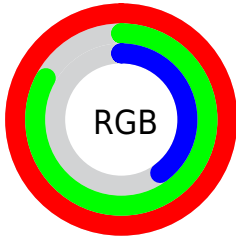
<b>Format</b>	<b>Color</b>
<b>RYB</b>	162, 255, 102
Decimal	16766054
CIELab	86.66, 2.91, 58.91
CIELCh	87, 58.985, 87.172
Yxy	69.3063, 0.4228, 0.4362
Android (android.graphics.Color)	4294956134 (0xFFFFD466)
YUV	212.3170, -54.3863, 37.4330
Hunter-Lab	83.2504, -1.6414, 42.3173

# Details

The XYZ color **67.1818, 69.3063, 22.4070** is a light color, and the websafe version is hex **FFCC66**. A complement of this color would be **33.6546, 30.2945, 98.6810**, and the grayscale version is **63.1142, 66.4011, 72.3108**.

A 20% lighter version of the original color is **83.0008, 95.1803, 45.4495**, and **35.2660, 36.2692, 7.9382** is the 20% darker color. If you saturate the color by 10%, you get **64.3552, 65.3754, 16.1564**, and if you desaturate by 10%, it is **70.4800, 73.5584, 30.7346**.

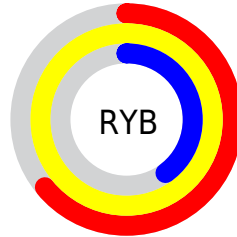
# Distribution



Red (100%)

Green (83%)

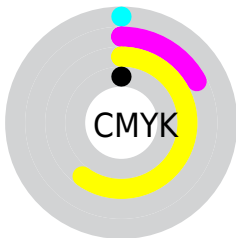
Blue (40%)



Red (64%)

Yellow (100%)

Blue (40%)

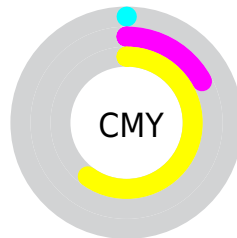


Cyan (0%)

Magenta (17%)

Yellow (60%)

Black (0%)



Cyan (0%)

Magenta (17%)


Yellow (60%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 67.1818, 69.3063, 22.4070 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 67.1818, 69.3063, 22.4070 by changing the saturation by 10% instead.





 67.1818, 69.3063,  
22.4070


 67.1818, 69.3063,  
22.4070


440.0139,  
458.1105, 277.6869


 49.5036, 50.9612,  
13.9551


 114.2292,  
118.2190, 48.3285


 35.2353, 36.1777,  
7.9510


 144.3292,  
149.5553, 66.6353

 24.0116, 24.5715,  
3.9763


 179.3005,  
185.9909, 89.0640

 15.4670, 15.7581,  
1.6124

 219.5084,  
227.9100, 116.0333

 9.2362, 9.3531,  
0.2996

265.3184,  
275.6972, 147.9617

 4.9539, 4.9722,  
0.0000

317.0957,

 2.2547, 2.2310,

329.7367, 185.2678

0.0000

375.2058,  
390.4130, 228.3700

■ 0.7713, 0.7368,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 67.1818, 69.3063,  
22.4070

■ 67.1818, 69.3063,  
22.4070

■ 64.3552, 65.3754,  
16.1564

■ 70.4800, 73.5584,  
30.7346

■ 61.9574, 61.7389,  
11.7837

■ 74.2782, 78.1366,  
41.3054

■ 59.9449, 58.3805,  
9.0576

■ 78.6080, 83.0579,  
54.2735

■ 58.2444, 55.2691,  
7.5983

■ 83.4968, 88.3346,  
69.7782

■ 58.2442, 55.2687,  
7.5981

■ 88.9697, 93.9785,  
87.9480

95.0498, 99.9999,  
108.9000

# Harmonies

## Analogous

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



81.2121, 69.3063, 28.1611



67.1818, 69.3063, 22.4070



54.5606, 69.3063, 26.2755

# Triad

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



67.1818, 69.3063, 22.4070



45.1064, 69.3063, 115.4268



90.5829, 69.3063, 124.1987

# Complementary

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



67.1818, 69.3063, 22.4070



33.6546, 30.2945, 98.6810

# 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.



78.6512, 69.3063, 164.4509



67.1818, 69.3063, 22.4070



52.5992, 69.3063, 158.2734

# Square

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



67.1818, 69.3063, 22.4070



42.9094, 69.3063, 71.8015



64.5824, 69.3063, 178.6843



95.8443, 69.3063, 79.2465



# Rectangle

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



67.1818, 69.3063, 22.4070



48.3802, 69.3063, 34.9160



64.5824, 69.3063, 178.6843



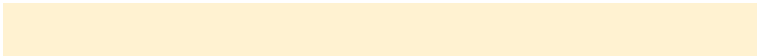
87.1448, 69.3063, 139.2490

# Sweetspot

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



67.1834, 69.3096, 22.4084



84.5435, 89.4333, 73.1930



51.1296, 32.8185, 30.5705



17.7714, 18.8012, 14.6098



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.



67.1834, 69.3096, 22.4084



63.8425, 64.6246, 15.1377



68.2367, 87.9850, 25.9576



19.1045, 20.1771, 19.0320



30.5668, 29.1448, 4.0145



3.0687, 3.0228, 0.4217



# Inverse Universe

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



33.6546, 30.2945, 98.6810



27.7600, 22.7388, 97.5337



32.8178, 21.8869, 97.1022



17.4185, 18.2087, 22.8465



10.7387, 6.3870, 50.1014



1.1332, 0.7972, 4.9074



# Previews

## White Background



This preview shows how the XYZ color 67.1818, 69.3063, 22.4070 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 67.1818, 69.3063, 22.4070 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 67.1818, 69.3063, 22.4070

## Background



This preview shows how black text looks on a background with the XYZ color 67.1818, 69.3063, 22.4070.



This preview shows how white text looks on a background with the XYZ color 67.1818, 69.3063,



# 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

67.1818, 69.3063, 22.4070

### Protanopia

63.2467, 69.1504, 23.1106

### Deuteranopia

69.4749, 69.4285, 36.9334



## Tritanopia

75.2275, 69.4036, 74.3971

# Trichromacy



## Original Color

67.1818, 69.3063, 22.4070

## Protanomaly

64.4048, 68.9926, 22.7544

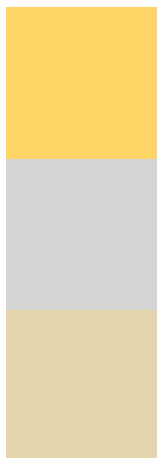
## Deuteranomaly

68.5635, 69.4602, 30.9126

## Tritanomaly

71.2907, 68.9808, 50.1146

# Monochromacy



## Original Color

67.1818, 69.3063, 22.4070

## Achromatopsia

62.5785, 65.8375, 71.6970

## Achromatomaly

62.9848, 66.5595, 48.5573

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 67.1818, 69.3063, 22.4070 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(255, 212, 102)` looks like.

```
.text, #text, p{  
    color:rgb(255, 212, 102)  
}
```

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(255, 212, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 212, 102) }
```

## Border

The CSS property to change the border of an element to XYZ 67.1818, 69.3063, 22.4070 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(255, 212, 102) }
```



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

```
.border{ border-color:rgb(255, 212, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 212, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 212, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 212, 102);  
box-shadow:4px 4px 4px 4px rgb(255, 212,  
102) }
```

# Background

The CSS property to change the background color of an element to XYZ 67.1818, 69.3063, 22.4070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 212, 102) }
```

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

```
.background{ background-color: rgb(255,  
212, 102) }
```

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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