

# Converting Colors

XYZ(49.7018, 67.3570, 22.6936)

Have a look what the booklet for  
XYZ(49.7018, 67.3570, 22.6936)  
contains.

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# Color

**XYZ(49.7018, 67.3570,  
22.6936)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B5E665
RGB	181, 230, 101
RGB Percent	71%, 90%, 40%
CMY	0.2902, 0.0980, 0.6039
CMYK	0.21, 0.00, 0.56, 0.10
HSL	83°, 72%, 65%
HSV	83°, 56%, 90%
XYZ	49.7018, 67.3570, 22.6936
YIQ	200.6430, 12.2050, -50.5070

# Conversions

## Conversions Part 2

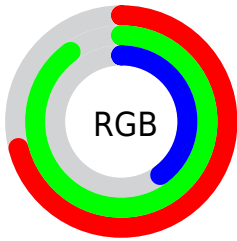
Format	Color
<a href="#">RYB</a>	<a href="#">101, 230, 150</a>
Decimal	<a href="#">11920997</a>
CIELab	<a href="#">85.68, -35.47, 56.74</a>
CIElCh	<a href="#">86, 66.912, 122.012</a>
Yxy	<a href="#">67.3570, 0.3556, 0.4820</a>
Android (android.graphics.Color)	<a href="#">4290111077 (0xFFB5E665)</a>
YUV	<a href="#">200.6430, -49.1240, -17.2269</a>
Hunter-Lab	<a href="#">82.0713, -35.5265, 41.0556</a>

# Details

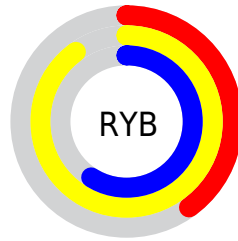
The XYZ color **49.7018, 67.3570, 22.6936** is a light color, and the websafe version is hex **CCFF66**. A complement of this color would be **31.5172, 21.5065, 77.3569**, and the grayscale version is **55.5870, 58.4818, 63.6867**.

A 20% lighter version of the original color is **77.2730, 92.2373, 44.7412**, and **24.0866, 34.8293, 8.0380** is the 20% darker color. If you saturate the color by 10%, you get **46.7444, 65.9471, 17.4737**, and if you desaturate by 10%, it is **53.1063, 68.9653, 29.5829**.

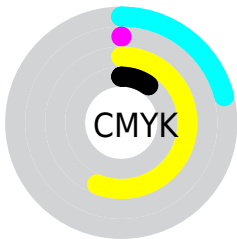
# Distribution



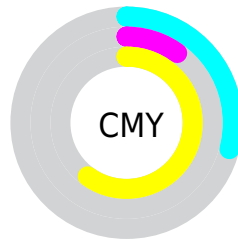
- Red (71%)
- Green (90%)
- Blue (40%)



- Red (40%)
- Yellow (90%)
- Blue (59%)



- Cyan (21%)
- Magenta (0%)
- Yellow (56%)
- Black (10%)



- Cyan (29%)
- Magenta (10%)
- Yellow (60%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 49.7018, 67.3570, 22.6936 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 49.7018, 67.3570, 22.6936 by changing the saturation by 10% instead.





 49.7018, 67.3570,  
22.6936


 49.7018, 67.3570,  
22.6936


375.9699,  
451.2145, 279.2181


 35.3933, 49.3748,  
14.1643


 88.9274, 115.4318,  
48.8065


 24.1340, 34.9169,  
8.0949


 114.5752,  
146.2932, 67.2272

 15.5583, 23.5989,  
4.0671


 144.7335,  
182.2165, 89.7820

 9.3010, 15.0363,  
1.6622

 179.7677,  
223.5860, 116.8896

 4.9967, 8.8449,  
0.3347

220.0430,  
270.7861, 148.9685

 2.2801, 4.6401,  
0.0000

265.9250,

 0.7844, 2.0377,

324.2013, 186.4371

0.0000

317.7788,  
384.2160, 229.7142

0.0000, 0.6292,  
0.0000

0.0000, 0.0000,  
0.0000

49.7018, 67.3570,  
22.6936

49.7018, 67.3570,  
22.6936

46.7444, 65.9471,  
17.4737

53.1063, 68.9653,  
29.5829

44.1998, 64.7145,  
13.7764


56.9792, 70.7737,  
38.2634


42.0357, 63.6484,  
11.4365


61.3460, 72.7951,  
48.8505


40.2104, 62.7319,  
10.2476


66.2287, 75.0384,  
61.4488

 39.5620, 62.4033,  
9.9599

 71.6478, 77.5122,  
76.1553

 77.6225, 80.2243,  
93.0605

 83.0221, 82.7226,  
106.1991

 86.0960, 84.3073,  
106.3429

 87.5883, 85.0766,  
106.4128

# Harmonies

## Analogous

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



62.9970, 67.3570, 17.3587



49.7018, 67.3570, 22.6936



41.4626, 67.3570, 40.5692

# Triad

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



49.7018, 67.3570, 22.6936



51.2229, 67.3570, 175.2912



98.0220, 67.3570, 70.4319

# Complementary

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



49.7018, 67.3570, 22.6936



31.5172, 21.5065, 77.3569

# 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.



93.5600, 67.3570, 120.2282



49.7018, 67.3570, 22.6936



65.0556, 67.3570, 193.3419

# Square

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



49.7018, 67.3570, 22.6936



42.2378, 67.3570, 127.4672



80.8555, 67.3570, 170.0743



92.2407, 67.3570, 37.2251



# Rectangle

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



49.7018, 67.3570, 22.6936



39.1528, 67.3570, 62.2785



80.8555, 67.3570, 170.0743



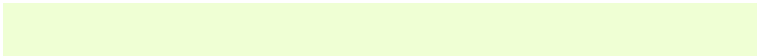
97.6685, 67.3570, 85.6401

# Sweetspot

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



49.7034, 67.3600, 22.6950



83.0383, 94.5252, 75.9247



45.6217, 39.0390, 17.4437



17.4982, 20.1060, 15.5290



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.



49.7034, 67.3600, 22.6950



58.6254, 83.1220, 21.3726



38.1464, 61.4021, 22.1542



15.0434, 16.5295, 15.3021



22.5367, 35.3996, 5.6450



1.7679, 2.6688, 0.4219



# Inverse Universe

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



31.5172, 21.5065, 77.3569



33.6362, 19.9785, 96.6912



46.3218, 29.1386, 78.0497



14.0977, 14.1526, 18.1330



10.4568, 4.4566, 42.6922



0.8735, 0.3813, 3.1595



# Previews

## White Background



This preview shows how the XYZ color 49.7018, 67.3570, 22.6936 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 49.7018, 67.3570, 22.6936 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

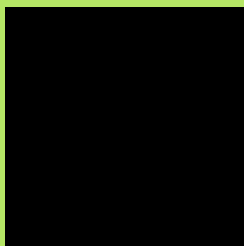
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 49.7018, 67.3570, 22.6936**

## **Background**



This preview shows how black text looks on a background with the XYZ color 49.7018, 67.3570, 22.6936.



This preview shows how white text looks on a background with the XYZ color 49.7018, 67.3570,



# 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



<b>Original Color</b>
49.7018, 67.3570, 22.6936
<b>Protanopia</b>
61.0829, 66.9422, 20.7680
<b>Deuteranopia</b>
67.3050, 66.6161, 31.5011



## **Tritanopia**

62.5525, 67.0007, 86.7263

# Trichromacy



## Original Color

49.7018, 67.3570, 22.6936

## Protanomaly

56.4131, 66.8200, 21.4795

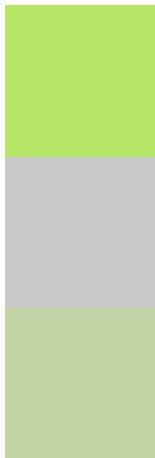
## Deuteranomaly

59.4927, 65.9676, 27.6866

## Tritanomaly

56.3516, 66.4222, 55.7497

# Monochromacy



## Original Color

49.7018, 67.3570, 22.6936

## Achromatopsia

55.5167, 58.4078, 63.6061

## Achromatomaly

52.5831, 61.2729, 44.6527

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 49.7018, 67.3570, 22.6936 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(181, 230, 101)` looks like.

```
.text, #text, p{  
    color:rgb(181, 230, 101)  
}
```

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(181, 230, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 230, 101) }
```

## Border

The CSS property to change the border of an element to XYZ 49.7018, 67.3570, 22.6936 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(181, 230, 101) }
```



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

```
.border{ border-color:rgb(181, 230, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 230, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 230, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 230, 101);  
box-shadow:4px 4px 4px 4px rgb(181, 230,  
101) }
```

# Background

The CSS property to change the background color of an element to XYZ 49.7018, 67.3570, 22.6936 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 230, 101) }
```

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

```
.background{ background-color: rgb(181,  
230, 101) }
```

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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