

# Converting Colors

XYZ(46.2499, 72.5729, 20.0543)

Have a look what the booklet for  
XYZ(46.2499, 72.5729, 20.0543)  
contains.

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# Color

**XYZ(46.2331, 72.5714,  
19.9584)**

# Conversions

## Conversions Part 1

| <b>Format</b> | <b>Color</b>                |
|---------------|-----------------------------|
| Hex           | 91F654                      |
| RGB           | 145, 246, 84                |
| RGB Percent   | 57%, 96%, 33%               |
| CMY           | 0.4314, 0.0353, 0.6706      |
| CMYK          | 0.41, 0.00, 0.66, 0.04      |
| HSL           | 97°, 90%, 65%               |
| HSV           | 97°, 66%, 96%               |
| XYZ           | 46.2331, 72.5714, 19.9584   |
| YIQ           | 197.3330, -8.1940, -71.7940 |

# Conversions

## Conversions Part 2

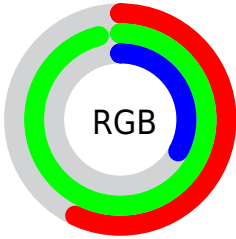
| <b>Format</b>                       | <b>Color</b>                    |
|-------------------------------------|---------------------------------|
| <b>RYB</b>                          | 84, 246, 185                    |
| Decimal                             | 9565780                         |
| CIELab                              | 88.24, -56.10, 66.12            |
| CIELCh                              | 88, 86.710, 130.313             |
| Yxy                                 | 72.5714, 0.3332,<br>0.5230      |
| Android<br>(android.graphics.Color) | 4287755860<br>(0xFF91F654)      |
| YUV                                 | 197.3330, -55.8732,<br>-45.8960 |
| Hunter-Lab                          | 85.1888, -52.2062,<br>45.7415   |

# Details

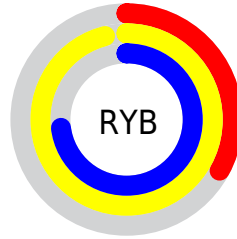
The XYZ color **46.2331, 72.5714, 19.9584** is a light color, and the websafe version is hex **99FF66**. The color can be described as light muted chartreuse. A complement of this color would be **39.8160, 23.3111, 89.5938**, and the grayscale version is **53.6051, 56.3968, 61.4161**.

A 20% lighter version of the original color is **65.3955, 86.2508, 38.0123**, and **22.0451, 38.3670, 6.7740** is the 20% darker color. If you saturate the color by 10%, you get **42.9114, 70.9537, 15.6267**, and if you desaturate by 10%, it is **50.2614, 74.5187, 26.0914**.

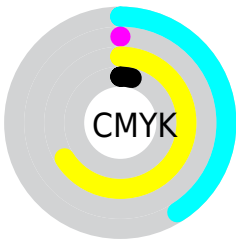
# Distribution



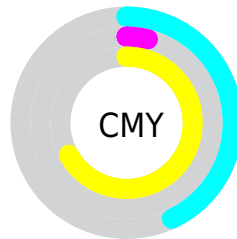
- Red (57%)
- Green (96%)
- Blue (33%)



- Red (33%)
- Yellow (96%)
- Blue (73%)



- Cyan (41%)
- Magenta (0%)
- Yellow (66%)
- Black (4%)




- Cyan (43%)
- Magenta (4%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 46.2331, 72.5714, 19.9584 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 46.2331, 72.5714, 19.9584 by changing the saturation by 10% instead.





 46.2331, 72.5714,  
19.9584

 46.2331, 72.5714,  
19.9584


362.4452,  
469.5280, 264.2866

 32.6352, 53.6256,  
12.1810


 83.7935, 122.8686,  
44.2055


 22.0050, 38.3024,  
6.7431


 108.4867,  
154.9887, 61.5123

 13.9772, 26.2175,  
3.2259


 137.6090,  
192.2690, 82.8326

 8.1864, 16.9864,  
1.2111

 171.5258,  
235.0940, 108.5851

 4.2673, 10.2248,  
0.0000

210.6025,  
283.8480, 139.1881

 1.8544, 5.5483,  
0.0000

255.2044,

 0.5501, 2.5724,

338.9154, 175.0604

0.0000

305.6969,  
400.6806, 216.6204

0.0000, 0.9128,  
0.0000

0.0000, 0.0000,  
0.0000

46.2331, 72.5714,  
19.9584

46.2331, 72.5714,  
19.9584

42.9114, 70.9537,  
15.6267

50.2614, 74.5187,  
26.0914

40.2394, 69.6340,  
12.8948


55.0366, 76.8062,  
34.1893

38.1573, 68.5888,  
11.5209


60.6017, 79.4548,  
44.4028

37.4336, 68.2222,  
11.1952

66.9945, 82.4812,  
56.8663

 74.2502, 85.9007,  
71.7034

 82.4018, 89.7280,  
89.0285

 91.2851, 93.8986,  
107.9207

 92.2473, 94.3946,  
107.9658

# Harmonies

## Analogous

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



62.0723, 72.5714, 11.4568



46.2331, 72.5714, 19.9584



37.7959, 72.5714, 46.4121

# Triad

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



46.2331, 72.5714, 19.9584



56.3795, 72.5714, 243.0182



116.1965, 72.5714, 60.2618

# Complementary

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



46.2331, 72.5714, 19.9584



39.8160, 23.3111, 89.5938

# 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.



113.8213, 72.5714, 124.1481



46.2331, 72.5714, 19.9584



76.3755, 72.5714, 253.3938

# Square

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



46.2331, 72.5714, 19.9584



42.7877, 72.5714, 178.5042



98.1717, 72.5714, 202.2408



104.1277, 72.5714, 25.7193



# Rectangle

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



46.2331, 72.5714, 19.9584



36.2546, 72.5714, 79.6433



98.1717, 72.5714, 202.2408



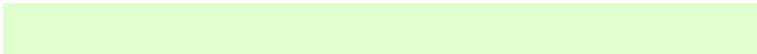
117.1114, 72.5714, 78.3958

# Sweetspot

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



46.2348, 72.5745, 19.9600



77.1528, 91.5997, 70.7409



56.7290, 54.4754, 15.9134



16.0428, 19.3841, 14.1808



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.



46.2348, 72.5745, 19.9600



45.5293, 76.4805, 15.7975



39.0573, 68.7770, 24.0237



16.8718, 18.7759, 17.5324



20.1227, 36.4864, 5.9820



1.8787, 3.2636, 0.5309



# Inverse Universe

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



39.8160, 23.3111, 89.5938



37.9737, 19.4184, 96.3544



55.0581, 31.4870, 75.9248



16.5738, 16.4385, 20.8420



16.0896, 7.2688, 47.0930

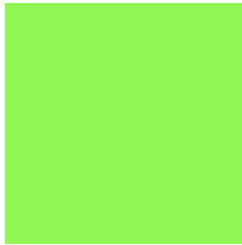


1.5279, 0.6975, 4.1443



# Previews

## White Background



This preview shows how the XYZ color 46.2331, 72.5714, 19.9584 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 46.2331, 72.5714, 19.9584 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

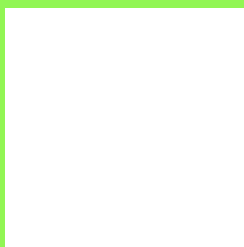
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# XYZ 46.2331, 72.5714, 19.9584

## Background



This preview shows how black text looks on a background with the XYZ color 46.2331, 72.5714, 19.9584.



This preview shows how white text looks on a background with the XYZ color 46.2331, 72.5714,



# 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

46.2331, 72.5714, 19.9584

### Protanopia

64.9388, 71.3151, 17.3637

### Deuteranopia

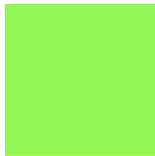
71.0350, 71.2488, 41.4609



## Tritanopia

62.1903, 72.0911, 100.2597

# Trichromacy



## Original Color

46.2331, 72.5714, 19.9584



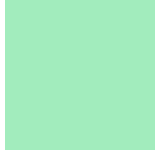
## Protanomaly

55.7618, 70.1731, 18.1952



## Deuteranomaly

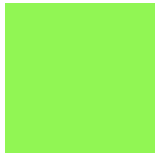
58.9788, 69.9092, 31.5044



## Tritanomaly

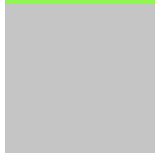
54.0811, 71.3464, 59.0650

# Monochromacy



## Original Color

46.2331, 72.5714, 19.9584



## Achromatopsia

53.0703, 55.8340, 60.8033



## Achromatomaly

48.6613, 60.4662, 40.5589

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 46.2331, 72.5714, 19.9584 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(145, 246, 84)` looks like.

```
.text, #text, p{  
    color:rgb(145, 246, 84)  
}
```

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(145, 246, 84) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 246, 84) }
```

## Border

The CSS property to change the border of an element to XYZ 46.2331, 72.5714, 19.9584 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(145, 246, 84) }
```



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

```
.border{ border-color:rgb(145, 246, 84) }
```

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

Here you see how a box with a 4 pixel `rgb(145, 246, 84)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 246, 84); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 246, 84);  
box-shadow:4px 4px 4px 4px rgb(145, 246,  
84) }
```

# Background

The CSS property to change the background color of an element to XYZ 46.2331, 72.5714, 19.9584 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 246, 84) }
```

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

```
.background{ background-color: rgb(145,  
246, 84) }
```

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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