

# Converting Colors

XYZ(40.6317, 70.5153, 13.2191)

Have a look what the booklet for  
XYZ(40.6317, 70.5153, 13.2191)  
contains.

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# Color

**XYZ(40.8408, 70.8458,  
13.2723)**

# Conversions

## Conversions Part 1

| Format      | Color                        |
|-------------|------------------------------|
| Hex         | 72F825                       |
| RGB         | 114, 248, 37                 |
| RGB Percent | 45%, 97%, 15%                |
| CMY         | 0.5529, 0.0274, 0.8549       |
| CMYK        | 0.54, 0.00, 0.85, 0.03       |
| HSL         | 98°, 94%, 56%                |
| HSV         | 98°, 85%, 97%                |
| XYZ         | 40.8408, 70.8458, 13.2723    |
| YIQ         | 183.8800, -12.1330, -94.0290 |

# Conversions

## Conversions Part 2

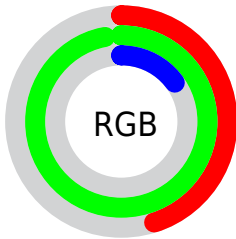
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">37, 248, 171</a>                                 |
| Decimal                             | <a href="#">7534629</a>                                      |
| CIELab                              | <a href="#">87.41, -68.43, 79.13</a>                         |
| CIELCh                              | <a href="#">87, 104.614, 130.854</a>                         |
| Yxy                                 | <a href="#">70.8458, 0.3268, 0.5670</a>                      |
| Android<br>(android.graphics.Color) | <a href="#">4285724709</a><br>( <a href="#">0xFF72F825</a> ) |
| YUV                                 | <a href="#">183.8800, -72.4118, -61.2848</a>                 |
| Hunter-Lab                          | <a href="#">84.1699, -60.6859, 49.5698</a>                   |

# Details

The XYZ color **40.8408, 70.8458, 13.2723** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **34.4043, 16.7614, 90.2328**, and the grayscale version is **45.8882, 48.2779, 52.5747**.

A 20% lighter version of the original color is **56.4413, 81.8870, 26.1956**, and **19.1410, 37.2020, 6.1719** is the 20% darker color. If you saturate the color by 10%, you get **38.7004, 69.7754, 11.7829**, and if you desaturate by 10%, it is **43.6011, 72.2097, 16.1704**.

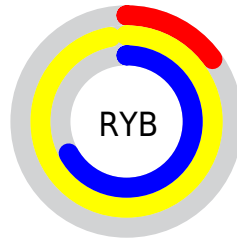
# Distribution



Red (45%)

Green (97%)

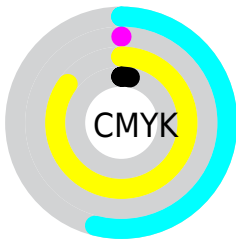
Blue (15%)



Red (15%)

Yellow (97%)

Blue (67%)

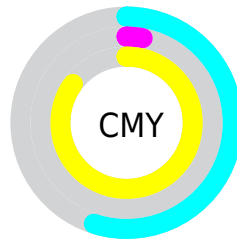


Cyan (54%)

Magenta (0%)

Yellow (85%)

Black (3%)



Cyan (55%)

Magenta (3%)


Yellow (85%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.8408, 70.8458, 13.2723 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 40.8408, 70.8458, 13.2723 by changing the saturation by 10% instead.





 40.8408, 70.8458,  
13.2723


 40.8408, 70.8458,  
13.2723


340.7288,  
463.5142, 223.9243


 28.3818, 52.2164,  
7.4834


 75.7184, 120.4141,  
32.4905

 18.7556, 37.1776,  
3.6832


 98.8677, 152.1218,  
46.7568


 11.5968, 25.3450,  
1.4532


 126.3112,  
188.9577, 64.6860

 6.5400, 16.3343,  
0.1827


 158.4143,  
231.3062, 86.6966

 3.2199, 9.7610,  
0.0000

 195.5422,  
279.5517, 113.2072

 1.2711, 5.2408,  
0.0000

238.0603,

 0.1614, 2.3892,

334.0787, 144.6364

0.0000

286.3341,  
395.2713, 181.4025

■ 0.0000, 0.8203,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 40.8408, 70.8458,  
13.2723

■ 40.8408, 70.8458,  
13.2723

■ 38.7004, 69.7754,  
11.7829

■ 43.6011, 72.2097,  
16.1704

■ 37.8334, 69.3362,  
11.3892

■ 47.0392, 73.8851,  
20.7163

■ 51.2101, 75.8980,  
27.1094

■ 56.1606, 78.2691,  
35.5200

61.9334, 81.0169,  
46.0987

68.5675, 84.1586,  
58.9819

76.0993, 87.7103,  
74.2947

84.5630, 91.6870,  
92.1534

92.8589, 95.6178,  
108.1696

# Harmonies

## Analogous

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



58.7977, 70.8458, 5.8693



40.8408, 70.8458, 13.2723



31.7440, 70.8458, 40.6250

# Triad

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



40.8408, 70.8458, 13.2723



52.9529, 70.8458, 289.6517



125.4585, 70.8458, 54.2912

# Complementary

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



40.8408, 70.8458, 13.2723



34.4043, 16.7614, 90.2328

# 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.



122.7909, 70.8458, 130.7938



40.8408, 70.8458, 13.2723



76.6651, 70.8458, 302.1029

# Square

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



40.8408, 70.8458, 13.2723



37.4648, 70.8458, 204.4123



103.3556, 70.8458, 232.1685



109.9414, 70.8458, 18.0472



# Rectangle

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



40.8408, 70.8458, 13.2723



30.1849, 70.8458, 79.1801



103.3556, 70.8458, 232.1685



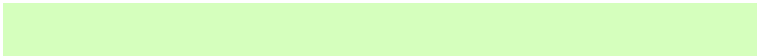
126.7391, 70.8458, 75.1333

# Sweetspot

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



40.8424, 70.8488, 13.2739



72.3220, 89.3111, 61.4005



53.5424, 49.0813, 8.4030



14.9391, 18.8604, 12.0801



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.



40.8424, 70.8488, 13.2739



40.2788, 73.8495, 12.1315



35.2906, 67.9146, 16.2719



17.6154, 19.6175, 18.3205



20.5770, 37.5261, 6.1587



2.0177, 3.5332, 0.5756



# Inverse Universe

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



34.4043, 16.7614, 90.2328



32.9411, 14.8966, 95.7469



52.2764, 26.4418, 69.9701



17.3430, 17.1895, 21.7891



16.8772, 7.6432, 48.5593

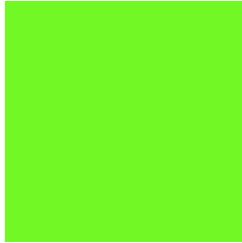


1.6795, 0.7679, 4.5029



# Previews

## White Background



This preview shows how the XYZ color 40.8408, 70.8458, 13.2723 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 40.8408, 70.8458, 13.2723 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

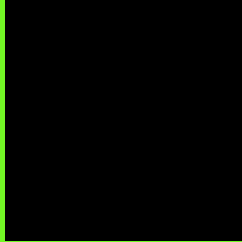
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 40.8408, 70.8458, 13.2723**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.8408, 70.8458, 13.2723.



This preview shows how white text looks on a background with the XYZ color 40.8408, 70.8458,



# 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

40.8408, 70.8458, 13.2723

### Protanopia

62.9372, 69.6391, 11.2232

### Deuteranopia

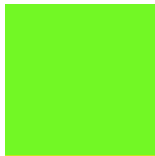
69.1691, 69.3062, 35.3230



## Tritanopia

58.0692, 70.3809, 100.1468

# Trichromacy



## Original Color

40.8408, 70.8458, 13.2723



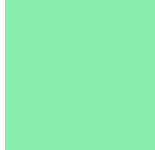
## Protanomaly

51.2926, 68.0079, 11.7198



## Deuteranomaly

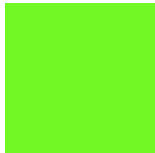
54.0562, 67.1482, 23.2085



## Tritanomaly

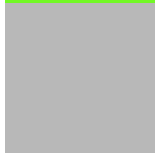
47.8839, 68.7812, 49.7821

# Monochromacy



## Original Color

40.8408, 70.8458, 13.2723



## Achromatopsia

45.5594, 47.9320, 52.1980



## Achromatomaly

40.7076, 53.6353, 29.6799

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.8408, 70.8458, 13.2723 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(114, 248, 37)` looks like.

```
.text, #text, p{  
    color:rgb(114, 248, 37)  
}
```

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(114, 248, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(114, 248, 37) }
```

## Border

The CSS property to change the border of an element to XYZ 40.8408, 70.8458, 13.2723 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(114, 248, 37) }
```



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

```
.border{ border-color:rgb(114, 248, 37) }
```

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

Here you see how a box with a 4 pixel `rgb(114, 248, 37)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(114, 248, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(114, 248, 37);  
box-shadow:4px 4px 4px 4px rgb(114, 248,  
37) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.8408, 70.8458, 13.2723 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(114, 248, 37) }
```

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

```
.background{ background-color: rgb(114,  
248, 37) }
```

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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