

# Converting Colors

XYZ(42.2685, 74.7647, 17.2218)

Have a look what the booklet for  
XYZ(42.2685, 74.7647, 17.2218)  
contains.

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# Color

**XYZ(42.3077, 74.7852,  
17.2062)**

# Conversions

## Conversions Part 1

Format	Color
Hex	67FF41
RGB	103, 255, 65
RGB Percent	40%, 100%, 25%
CMY	0.5961, 0.0000, 0.7451
CMYK	0.60, 0.00, 0.75, 0.00
HSL	108°, 100%, 63%
HSV	108°, 75%, 100%
XYZ	42.3077, 74.7852, 17.2062
YIQ	187.8920, -29.6020, -91.3140

# Conversions

## Conversions Part 2

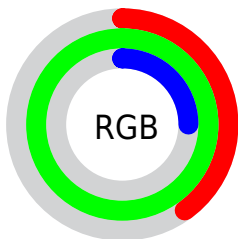
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">65, 255, 217</a>
Decimal	<a href="#">6815553</a>
CIELab	<a href="#">89.29, -72.08, 73.41</a>
CIELCh	<a href="#">89, 102.882, 134.476</a>
Yxy	<a href="#">74.7852, 0.3150, 0.5569</a>
Android (android.graphics.Color)	<a href="#">4285005633 (0xFF67FF41)</a>
YUV	<a href="#">187.8920, -60.5858, -74.4503</a>
Hunter-Lab	<a href="#">86.4784, -64.0100, 48.7383</a>

# Details

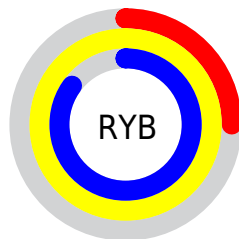
The XYZ color **42.3077, 74.7852, 17.2062** is a dark color, and the websafe version is hex **66FF33**. The color can be described as middle washed chartreuse. A complement of this color would be **48.5581, 25.7543, 97.0195**, and the grayscale version is **48.0844, 50.5885, 55.0909**.

A 20% lighter version of the original color is **55.6101, 81.3255, 32.1685**, and **19.9663, 39.9325, 6.6554** is the 20% darker color. If you saturate the color by 10%, you get **39.6668, 73.4907, 14.0583**, and if you desaturate by 10%, it is **45.8531, 76.5075, 22.1373**.

# Distribution



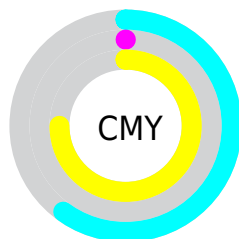
- Red (40%)
- Green (100%)
- Blue (25%)



- Red (25%)
- Yellow (100%)
- Blue (85%)



- Cyan (60%)
- Magenta (0%)
- Yellow (75%)
- Black (0%)




- Cyan (60%)
- Magenta (0%)
- Yellow (75%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 42.3077, 74.7852, 17.2062 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 42.3077, 74.7852, 17.2062 by changing the saturation by 10% instead.





 42.3077, 74.7852,  
17.2062


 42.3077, 74.7852,  
17.2062


346.7269,  
477.1790, 248.4419


 29.5345, 55.4369,  
10.2181


 77.9274, 126.0083,  
39.4755


 19.6318, 39.7517,  
5.4363


 101.5045,  
158.6518, 55.5937

 12.2344, 27.3450,  
2.4423


 129.4136,  
196.4960, 75.5924

 6.9769, 17.8325,  
0.8093

 162.0201,  
239.9251, 99.8902

 3.4938, 10.8298,  
0.0000

 199.6893,  
289.3235, 128.9054

 1.4200, 5.9525,  
0.0000

242.7866,

 0.2704, 2.8162,

345.0757, 163.0568

0.0000

291.6773,  
407.5661, 202.7628

■ 0.0000, 1.0365,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 42.3077, 74.7852,  
17.2062

■ 42.3077, 74.7852,  
17.2062

■ 39.6668, 73.4907,  
14.0583

■ 45.8531, 76.5075,  
22.1373


■ 37.8384, 72.5823,  
12.4312

■ 50.3799, 78.6926,  
29.0593


■ 37.1249, 72.2236,  
11.9839

■ 55.9573, 81.3724,  
38.1550

■ 62.6479, 84.5754,  
49.5858

 70.5088, 88.3281,  
63.4975

 79.5937, 92.6551,  
80.0242

 89.9524, 97.5795,  
99.2903

95.0500, 100.0000,  
108.9000

# Harmonies

## Analogous

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



59.6690, 74.7852, 7.4832



42.3077, 74.7852, 17.2062



33.9372, 74.7852, 49.7119

# Triad

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



42.3077, 74.7852, 17.2062



58.9125, 74.7852, 300.9151



128.9112, 74.7852, 51.4923

# Complementary

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



42.3077, 74.7852, 17.2062



48.5581, 25.7543, 97.0195

# 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.



128.5713, 74.7852, 124.3848



42.3077, 74.7852, 17.2062



83.8627, 74.7852, 302.4837

# Square

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



42.3077, 74.7852, 17.2062



41.8670, 74.7852, 222.0311



110.6122, 74.7852, 225.5428



111.4536, 74.7852, 17.8490



# Rectangle

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



42.3077, 74.7852, 17.2062



32.9596, 74.7852, 92.7180



110.6122, 74.7852, 225.5428



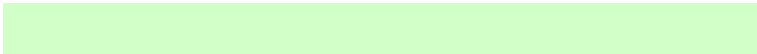
130.9853, 74.7852, 71.0945

# Sweetspot

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



42.3080, 74.7853, 17.2074



72.6692, 89.3579, 67.3897



67.0076, 71.2683, 15.2267



15.0547, 18.8882, 13.5245



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.



42.3080, 74.7853, 17.2074



38.7508, 73.0375, 13.1570



41.4537, 74.0494, 30.5222



18.1107, 20.3430, 19.1164



19.4937, 37.7875, 6.2663



1.9816, 3.7223, 0.6140



# Inverse Universe

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



48.5581, 25.7543, 97.0195



44.9358, 21.6983, 96.4276



53.3241, 29.1188, 56.2375



18.4159, 18.1061, 22.7742



22.5694, 10.5455, 50.2805

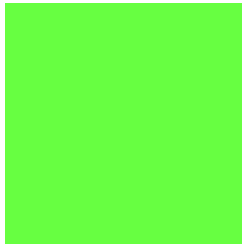


2.2836, 1.0712, 4.8997



# Previews

## White Background



This preview shows how the XYZ color 42.3077, 74.7852, 17.2062 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

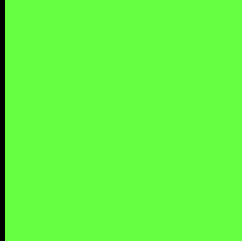
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 42.3077, 74.7852, 17.2062 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

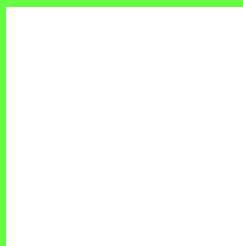
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 42.3077, 74.7852, 17.2062**

## **Background**



This preview shows how black text looks on a background with the XYZ color 42.3077, 74.7852, 17.2062.



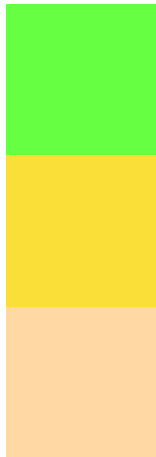
This preview shows how white text looks on a background with the XYZ color 42.3077, 74.7852,



# 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

42.3077, 74.7852, 17.2062

### Protanopia

66.5505, 73.3948, 14.5299

### Deuteranopia

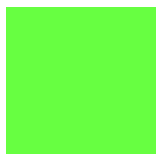
72.4067, 73.0161, 44.9276



## Tritanopia

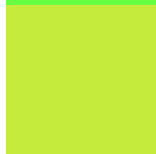
60.7286, 74.1779, 105.7248

# Trichromacy



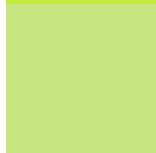
## Original Color

42.3077, 74.7852, 17.2062



## Protanomaly

53.5499, 71.6132, 15.2753



## Deuteranomaly

55.9470, 70.4053, 30.7195



## Tritanomaly

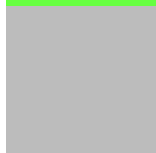
50.7293, 73.1521, 57.9004

# Monochromacy



## Original Color

42.3077, 74.7852, 17.2062



## Achromatopsia

47.7994, 50.2886, 54.7643



## Achromatomaly

42.4060, 56.2382, 34.6066

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 42.3077, 74.7852, 17.2062 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(103, 255, 65)` looks like.

```
.text, #text, p{  
    color:rgb(103, 255, 65)  
}
```

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(103, 255, 65) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 255, 65) }
```

## Border

The CSS property to change the border of an element to XYZ 42.3077, 74.7852, 17.2062 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(103, 255, 65) }
```



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

```
.border{ border-color:rgb(103, 255, 65) }
```

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

Here you see how a box with a 4 pixel rgb(103, 255, 65) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 255, 65); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 255, 65);  
box-shadow:4px 4px 4px 4px rgb(103, 255,  
65) }
```

# Background

The CSS property to change the background color of an element to XYZ 42.3077, 74.7852, 17.2062 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 255, 65) }
```

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

```
.background{ background-color: rgb(103,  
255, 65) }
```

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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