

# Converting Colors

XYZ(66.6999, 77.3159, 37.7945)

Have a look what the booklet for  
XYZ(66.6999, 77.3159, 37.7945)  
contains.

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# Color

**XYZ(66.7700, 77.5173,  
37.8287)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E5EA90
RGB	229, 234, 144
RGB Percent	90%, 92%, 56%
CMY	0.1020, 0.0823, 0.4353
CMYK	0.02, 0.00, 0.38, 0.08
HSL	63°, 68%, 74%
HSV	63°, 38%, 92%
XYZ	66.7700, 77.5173, 37.8287
YIQ	222.2450, 25.9100, -29.0500

# Conversions

## Conversions Part 2

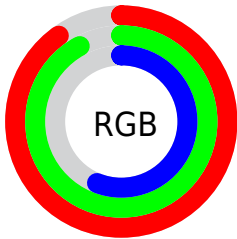
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 234, 149
Decimal	15067792
CIELab	90.56, -14.83, 43.12
CIELCh	91, 45.601, 108.976
Yxy	77.5173, 0.3666, 0.4256
Android (android.graphics.Color)	4293257872 (0xFFE5EA90)
YUV	222.2450, -38.5748, 5.9241
Hunter-Lab	88.0439, -18.7075, 36.1564

# Details

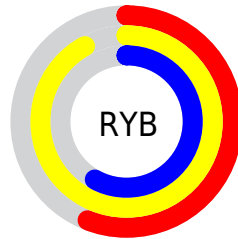
The XYZ color **66.7700, 77.5173, 37.8287** is a light color, and the websafe version is hex **FFFF99**. A complement of this color would be **37.2218, 32.2785, 82.1150**, and the grayscale version is **69.8574, 73.4954, 80.0365**.

A 20% lighter version of the original color is **87.3088, 96.9035, 68.1354**, and **34.8654, 41.3842, 16.2756** is the 20% darker color. If you saturate the color by 10%, you get **64.7507, 76.6645, 29.3464**, and if you desaturate by 10%, it is **69.1670, 78.5270, 48.2667**.

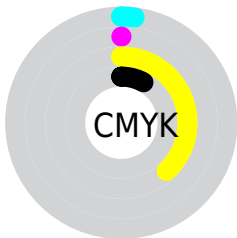
# Distribution



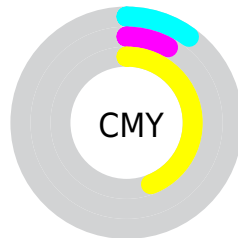
- Red (90%)
- Green (92%)
- Blue (56%)



- Red (56%)
- Yellow (92%)
- Blue (58%)



- Cyan (2%)
- Magenta (0%)
- Yellow (38%)
- Black (8%)



- Cyan (10%)
- Magenta (8%)
- Yellow (44%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 66.7700, 77.5173, 37.8287 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 66.7700, 77.5173, 37.8287 by changing the saturation by 10% instead.



66.7700, 77.5173,  
37.8287

66.7700, 77.5173,  
37.8287

438.5710,  
486.5260, 352.1607

49.1677, 57.6775,  
25.5490

113.6424,  
129.8694, 73.0460

34.9676, 41.5495,  
16.2638

143.6433,  
163.1506, 96.8207

23.8044, 28.7487,  
9.5546

178.5077,  
201.6811, 125.2641

15.3125, 18.8908,  
5.0030

218.6011,  
245.8451, 158.7947

9.1267, 11.5914,  
2.1902

264.2887,  
296.0273, 197.8311

4.8817, 6.4661,  
0.6687

315.9360,

2.2121, 3.1305,

352.6119, 242.7919

0.0000

373.9083,  
415.9833, 294.0956

■ 0.7491, 1.2002,  
0.0000

■ 0.0000, 0.0619,  
0.0000

■ 66.7700, 77.5173,  
37.8287

■ 66.7700, 77.5173,  
37.8287

■ 64.7507, 76.6645,  
29.3464

■ 69.1670, 78.5270,  
48.2667

■ 63.0803, 75.9489,  
22.6935

■ 71.9570, 79.6915,  
60.7665


■ 61.7350, 75.3637,  
17.7363

■ 75.1614, 81.0222,  
75.4326


■ 60.6856, 74.8972,  
14.3212

■ 78.7986, 82.5263,  
92.3610


 59.8977, 74.5357,  
12.2668


 81.9034, 83.8178,  
106.4694


 59.3212, 74.2591,  
11.3102

 82.3359, 84.0408,  
106.4897

 59.2405, 74.2198,  
11.2035

 82.7716, 84.2654,  
106.5101

 83.2105, 84.4916,  
106.5306

 83.6525, 84.7195,  
106.5513

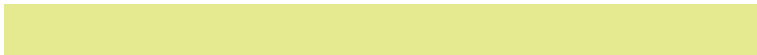
# Harmonies

## Analogous

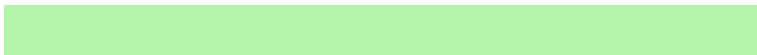
The Analogous color harmony consists of three colors that are next to each other on the color wheel.



77.9545, 77.5173, 36.5230



66.7700, 77.5173, 37.8287



58.3311, 77.5173, 49.5065

# Triad

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



66.7700, 77.5173, 37.8287



60.1920, 77.5173, 141.2509



97.3851, 77.5173, 97.0008

# Complementary

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



66.7700, 77.5173, 37.8287



37.2218, 32.2785, 82.1150

# 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.



91.5048, 77.5173, 132.7413



66.7700, 77.5173, 37.8287



69.5606, 77.5173, 162.3414

# Square

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



66.7700, 77.5173, 37.8287



54.8130, 77.5173, 106.5332



81.0465, 77.5173, 158.8778

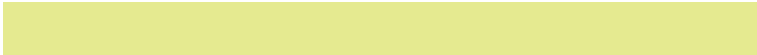


96.4395, 77.5173, 65.5719

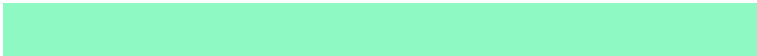


# Rectangle

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



66.7700, 77.5173, 37.8287



55.0336, 77.5173, 63.8036



81.0465, 77.5173, 158.8778



96.1188, 77.5173, 109.0183

# Sweetspot

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



66.7719, 77.5208, 37.8303



89.8855, 97.8622, 84.9576



49.6368, 40.8450, 31.6543



19.1287, 20.9007, 17.6782



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.



66.7719, 77.5208, 37.8303



79.2061, 93.3899, 37.7825



54.3469, 71.1155, 37.2488



16.2644, 17.5818, 16.0551



33.3243, 41.7238, 6.2971



2.6421, 3.2894, 0.4957



# Inverse Universe

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



37.2218, 32.2785, 82.1150



38.6363, 31.2605, 98.6053



46.9469, 37.2920, 82.5702



14.3087, 14.5889, 18.9840



8.4717, 3.4032, 43.9533

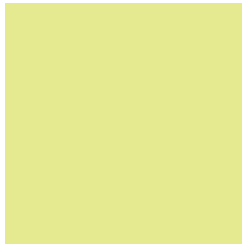


0.6926, 0.2814, 3.4527



# Previews

## White Background



This preview shows how the XYZ color 66.7700, 77.5173, 37.8287 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

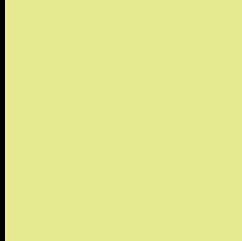
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 66.7700, 77.5173, 37.8287 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

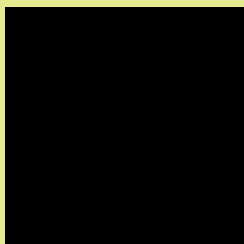
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

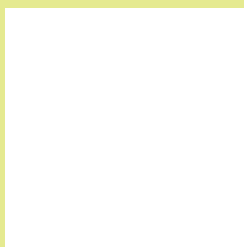
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 66.7700, 77.5173, 37.8287**

## **Background**



This preview shows how black text looks on a background with the XYZ color 66.7700, 77.5173, 37.8287.



This preview shows how white text looks on a background with the XYZ color 66.7700, 77.5173,



# 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

66.7700, 77.5173, 37.8287

### Protanopia

71.3373, 77.3963, 36.7703

### Deuteranopia

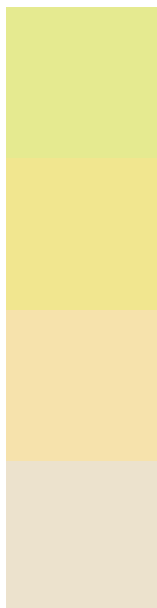
76.4384, 77.1334, 58.4364



## Tritanopia

77.7846, 77.0591, 93.2123

# Trichromacy



## Original Color

66.7700, 77.5173, 37.8287

## Protanomaly

69.5304, 77.2776, 37.2380

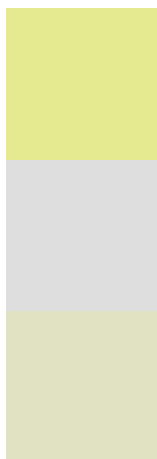
## Deuteranomaly

72.6488, 76.9641, 50.0563

## Tritanomaly

72.8079, 76.6334, 68.7119

# Monochromacy



## Original Color

66.7700, 77.5173, 37.8287

## Achromatopsia

69.4303, 73.0461, 79.5472

## Achromatomaly

67.9853, 74.2953, 61.7962

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 66.7700, 77.5173, 37.8287 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(229, 234, 144)` looks like.

```
.text, #text, p{  
    color:rgb(229, 234, 144)  
}
```

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(229, 234, 144) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 234, 144) }
```

## Border

The CSS property to change the border of an element to XYZ 66.7700, 77.5173, 37.8287 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(229, 234, 144) }
```



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

```
.border{ border-color:rgb(229, 234, 144) }
```

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

Here you see how a box with a 4 pixel `rgb(229, 234, 144)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 234, 144); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 234, 144);  
box-shadow:4px 4px 4px 4px rgb(229, 234,  
144) }
```

# Background

The CSS property to change the background color of an element to XYZ 66.7700, 77.5173, 37.8287 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 234, 144) }
```

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

```
.background{ background-color: rgb(229,  
234, 144) }
```

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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