

Converting Colors

XYZ(48.0682, 77.8031, 15.6158)

Have a look what the booklet for
XYZ(48.0682, 77.8031, 15.6158)
contains.

XYZ(48.0346, 77.7788, 15.6131)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	24
<i>Color Blindness Simulation</i>	28
<i>CSS Examples</i>	31

Color

**XYZ(48.0346, 77.7788,
15.6131)**

Conversions

Conversions Part 1

Format	Color
Hex	91FF33
RGB	145, 255, 51
RGB Percent	57%, 100%, 20%
CMY	0.4314, 0.0000, 0.8000
CMYK	0.43, 0.00, 0.80, 0.00
HSL	92°, 100%, 60%
HSV	92°, 80%, 100%
XYZ	48.0346, 77.7788, 15.6131
YIQ	198.8540, -0.0760, -86.7640

Conversions

Conversions Part 2

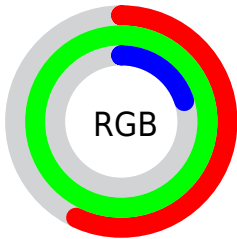
Format	Color
RYB	51, 255, 161
Decimal	9568051
CIELab	90.68, -61.55, 79.25
CIElCh	91, 100.345, 127.838
Yxy	77.7788, 0.3396, 0.5500
Android (android.graphics.Color)	4287758131 (0xFF91FF33)
YUV	198.8540, -72.8920, -47.2300
Hunter-Lab	88.1923, -57.1151, 51.2382

Details

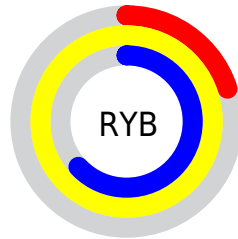
The XYZ color **48.0346, 77.7788, 15.6131** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **33.9343, 17.1667, 96.1327**, and the grayscale version is **54.6291, 57.4741, 62.5893**.

A 20% lighter version of the original color is **64.3081, 85.8796, 29.4067**, and **23.4459, 41.7263, 6.8183** is the 20% darker color. If you saturate the color by 10%, you get **45.3397, 76.4376, 13.3131**, and if you desaturate by 10%, it is **51.3309, 79.3943, 19.5500**.

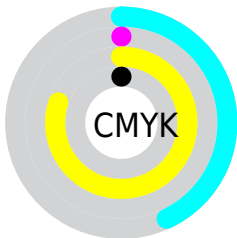
Distribution



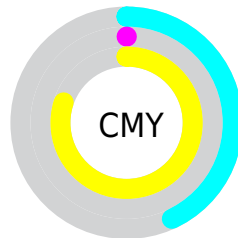
- Red (57%)
- Green (100%)
- Blue (20%)



- Red (20%)
- Yellow (100%)
- Blue (63%)



- Cyan (43%)
- Magenta (0%)
- Yellow (80%)
- Black (0%)





- Cyan (43%)
- Magenta (0%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the XYZ color 48.0346, 77.7788, 15.6131 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 48.0346, 77.7788, 15.6131 by changing the saturation by 10% instead.


 48.0346, 77.7788,
15.6131


 48.0346, 77.7788,
15.6131


369.5096,
487.4153, 238.8150


 34.0657, 57.8923,
9.0994


 86.4653, 130.2383,
36.6826

 23.1072, 41.7221,
4.7084


 111.6578,
163.5800, 52.0755


 14.7938, 28.8837,
2.0215


 141.3221,
202.1756, 71.2652

 8.7602, 18.9929,
0.5684

 175.8237,
246.4094, 94.6703

 4.6409, 11.6651,
0.0000

 215.5279,
296.6659, 122.7093

 2.0707, 6.5161,
0.0000

260.8000,

 0.6732, 3.1614,

353.3295, 155.8007

0.0000

312.0055,
416.7845, 194.3631

0.0000, 1.2165,
0.0000

0.0000, 0.0752,
0.0000

48.0346, 77.7788,
15.6131

48.0346, 77.7788,
15.6131

45.3397, 76.4376,
13.3131

51.3309, 79.3943,
19.5500

43.1633, 75.3365,
12.2668

55.2822, 81.3070,
25.3531

43.1625, 75.3361,
12.2664

59.9350, 83.5363,
33.2186

65.3307, 86.0999,
43.3170

■ 71.5068, 89.0139,
55.8011

■ 78.4980, 92.2931,
70.8101

■ 86.3368, 95.9513,
88.4727

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.



67.5206, 77.7788, 8.2182



48.0346, 77.7788, 15.6131



37.5526, 77.7788, 42.4242

Triad

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



48.0346, 77.7788, 15.6131



57.1313, 77.7788, 288.8374



132.9841, 77.7788, 67.1566

Complementary

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



48.0346, 77.7788, 15.6131



33.9343, 17.1667, 96.1327

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.



128.4176, 77.7788, 148.4724



48.0346, 77.7788, 15.6131



80.7251, 77.7788, 309.5827

Square

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



48.0346, 77.7788, 15.6131



41.9133, 77.7788, 201.3443



107.7669, 77.7788, 248.0896



119.1140, 77.7788, 24.9425

Rectangle

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



48.0346, 77.7788, 15.6131



35.3431, 77.7788, 79.5663



107.7669, 77.7788, 248.0896



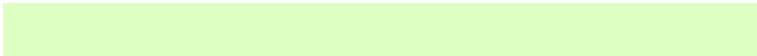
133.6029, 77.7788, 90.0247

Sweetspot

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



48.0347, 77.7788, 15.6142



75.5988, 90.9354, 64.4891



54.3747, 46.5730, 9.2568



15.6531, 19.2161, 12.6745



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.



48.0347, 77.7788, 15.6142



43.9832, 75.7528, 12.5965



37.8846, 72.5276, 15.9802



18.5669, 20.5782, 19.1377



22.7212, 39.4513, 6.4173



2.3366, 3.9053, 0.6307

Inverse Universe

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



33.9343, 17.1667, 96.1327



29.3516, 13.2105, 95.6106



59.3986, 30.4183, 91.7106



17.9388, 17.8602, 22.7518



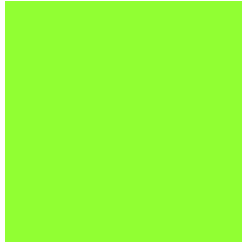
15.0400, 6.6639, 49.9281



1.5905, 0.7138, 4.8672

Previews

White Background



This preview shows how the XYZ color 48.0346, 77.7788, 15.6131 looks on a white background.

Color Contrast Check

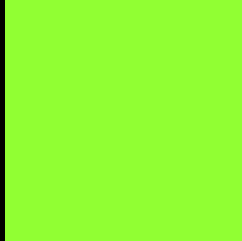
Large Text (above 18pt) WCAG AA × Fail

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 48.0346, 77.7788, 15.6131 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 48.0346, 77.7788, 15.6131

Background



This preview shows how black text looks on a background with the XYZ color 48.0346, 77.7788, 15.6131.

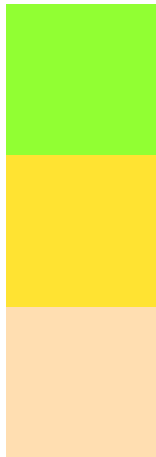


This preview shows how white text looks on a background with the XYZ color 48.0346, 77.7788,

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

48.0346, 77.7788, 15.6131

Protanopia

69.2848, 76.4285, 14.1181

Deuteranopia

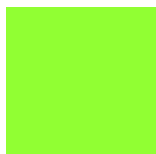
75.2971, 76.6769, 52.4265



Tritanopia

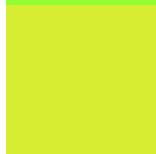
66.6943, 77.2534, 106.0040

Trichromacy



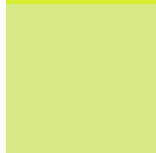
Original Color

48.0346, 77.7788, 15.6131



Protanomaly

58.8842, 75.2457, 14.4380



Deuteranomaly

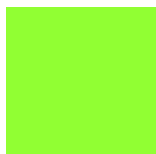
61.5439, 74.9314, 32.6922



Tritanomaly

56.4171, 76.1446, 55.4399

Monochromacy



Original Color

48.0346, 77.7788, 15.6131



Achromatopsia

54.2854, 57.1125, 62.1955



Achromatomaly

49.0328, 62.2911, 36.2271

CSS Examples

Text

The CSS property to change the color of the text to XYZ 48.0346, 77.7788, 15.6131 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, 255, 51)` looks like.

```
.text, #text, p{  
    color:rgb(145, 255, 51)  
}
```

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, 255, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(145, 255, 51) }
```

Border

The CSS property to change the border of an element to XYZ 48.0346, 77.7788, 15.6131 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, 255, 51) }
```


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

```
.border{ border-color:rgb(145, 255, 51) }
```

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

Here you see how a box with a 4 pixel rgb(145, 255, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(145, 255, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(145, 255, 51);  
box-shadow:4px 4px 4px 4px rgb(145, 255,  
51) }
```

Background

The CSS property to change the background color of an element to XYZ 48.0346, 77.7788, 15.6131 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(145, 255, 51) }
```

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

```
.background{ background-color: rgb(145,  
255, 51) }
```

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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