

# Converting Colors

XYZ(53.2343, 80.4825, 14.8085)

Have a look what the booklet for  
XYZ(53.2343, 80.4825, 14.8085)  
contains.

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# Color

**XYZ(53.1735, 80.4508,  
14.8238)**

# Conversions

## Conversions Part 1

Format	Color
Hex	ACFF29
RGB	172, 255, 41
RGB Percent	67%, 100%, 16%
CMY	0.3255, 0.0000, 0.8392
CMYK	0.33, 0.00, 0.84, 0.00
HSL	83°, 100%, 58%
HSV	83°, 84%, 100%
XYZ	53.1735, 80.4508, 14.8238
YIQ	205.7870, 19.2260, -84.1500

# Conversions

## Conversions Part 2

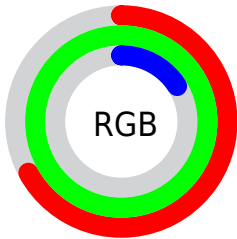
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	41, 255, 124
Decimal	11337513
CIE <sub>Lab</sub>	91.89, -53.04, 83.12
CIE <sub>LCh</sub>	92, 98.603, 122.540
Yxy	80.4508, 0.3582, 0.5419
Android (android.graphics.Color)	4289527593 (0xFFACFF29)
YUV	205.7870, -81.2400, -29.6312
Hunter-Lab	89.6944, -51.1450, 52.9872

# Details

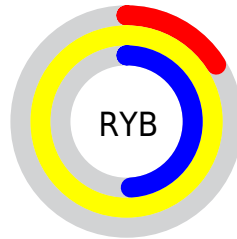
The XYZ color **53.1735, 80.4508, 14.8238** is a light color, and the websafe version is hex **99FF33**. The color can be described as light washed chartreuse. A complement of this color would be **27.1574, 13.0927, 95.7035**, and the grayscale version is **59.0252, 62.0991, 67.6259**.

A 20% lighter version of the original color is **72.1246, 89.9478, 28.0283**, and **26.8762, 43.8329, 7.0441** is the 20% darker color. If you saturate the color by 10%, you get **50.7723, 79.2487, 13.0919**, and if you desaturate by 10%, it is **56.0240, 81.8511, 18.0798**.

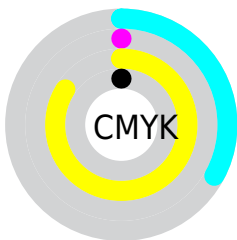
# Distribution



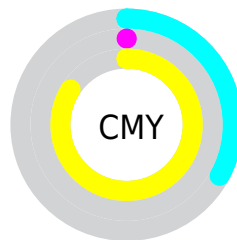
- Red (67%)
- Green (100%)
- Blue (16%)



- Red (16%)
- Yellow (100%)
- Blue (49%)



- Cyan (33%)
- Magenta (0%)
- Yellow (84%)
- Black (0%)




- Cyan (33%)
- Magenta (0%)
- Yellow (84%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 53.1735, 80.4508, 14.8238 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 53.1735, 80.4508, 14.8238 by changing the saturation by 10% instead.





 53.1735, 80.4508,  
14.8238

 53.1735, 80.4508,  
14.8238


389.2004,  
496.4508, 233.9012


 38.1693, 60.0894,  
8.5506


 94.0236, 133.9993,  
35.2817

 26.2919, 43.4907,  
4.3564


 120.6003,  
167.9553, 50.3034


 17.1760, 30.2703,  
1.8228


 151.7652,  
207.2115, 69.0784

 10.4561, 20.0438,  
0.4430

 187.8837,  
252.1524, 92.0252

 5.7670, 12.4269,  
0.0000

 229.3211,  
303.1624, 119.5624

 2.7432, 7.0351,  
0.0000

276.4428,

 1.0195, 3.4841,

360.6258, 152.1084

0.0000

329.6141,  
424.9272, 190.0818

0.0000, 1.3894,  
0.0000

0.0000, 0.2089,  
0.0000

53.1735, 80.4508,  
14.8238

53.1735, 80.4508,  
14.8238

50.7723, 79.2487,  
13.0919


56.0240, 81.8511,  
18.0798


49.4881, 78.5971,  
12.5625


59.3751, 83.4708,  
23.1101

63.2695, 85.3273,  
30.1231

67.7443, 87.4357,  
39.2977

 72.8328, 89.8097,  
50.7927

 78.5652, 92.4619,  
64.7521

 84.9697, 95.4037,  
81.3082

 92.0723, 98.6459,  
100.5837

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.



74.3309, 80.4508, 9.1197



53.1735, 80.4508, 14.8238



40.9169, 80.4508, 37.7828

# Triad

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



53.1735, 80.4508, 14.8238



56.1579, 80.4508, 278.4619



136.0790, 80.4508, 81.5682

# Complementary

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



53.1735, 80.4508, 14.8238



27.1574, 13.0927, 95.7035

# 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.



128.2561, 80.4508, 168.8163



53.1735, 80.4508, 14.8238



78.6418, 80.4508, 313.4711

# Square

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



53.1735, 80.4508, 14.8238



42.3540, 80.4508, 185.9211



105.7265, 80.4508, 265.3284



125.2374, 80.4508, 32.0020



# Rectangle

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



53.1735, 80.4508, 14.8238



37.6663, 80.4508, 70.7266



105.7265, 80.4508, 265.3284



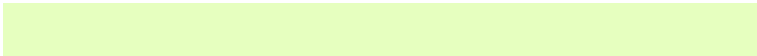
135.5453, 80.4508, 106.9575

# Sweetspot

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



53.1736, 80.4508, 14.8249



77.9123, 92.1608, 63.1170



48.7285, 35.5962, 6.4014



16.2347, 19.5221, 12.4188



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.



53.1736, 80.4508, 14.8249



49.4881, 78.5971, 12.5625



38.4057, 72.8376, 14.1338



18.8391, 20.7185, 19.1505



26.0307, 41.1574, 6.5722



2.6569, 4.0704, 0.6456



# Inverse Universe

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



27.1574, 13.0927, 95.7035



23.1856, 9.8675, 95.2903



51.4876, 25.6355, 96.8422



17.6693, 17.7212, 22.7392



12.2695, 5.2357, 49.7985

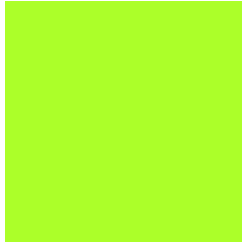


1.3125, 0.5705, 4.8542



# Previews

## White Background



This preview shows how the XYZ color 53.1735, 80.4508, 14.8238 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

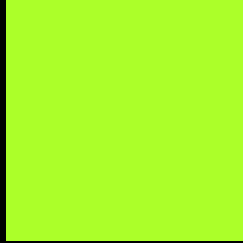
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 53.1735, 80.4508, 14.8238 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

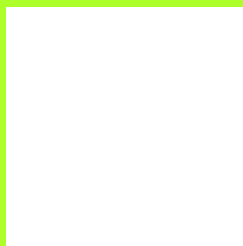
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 53.1735, 80.4508, 14.8238**

## **Background**



This preview shows how black text looks on a background with the XYZ color 53.1735, 80.4508, 14.8238.



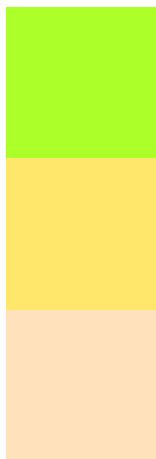
This preview shows how white text looks on a background with the XYZ color 53.1735, 80.4508,



# 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

53.1735, 80.4508, 14.8238

### Protanopia

72.4698, 79.4734, 25.4302

### Deuteranopia

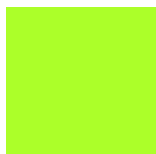
77.5135, 79.2836, 58.7948



## **Tritanopia**

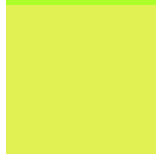
71.8874, 79.9305, 106.2470

# Trichromacy



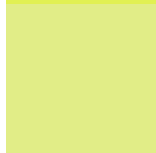
## Original Color

53.1735, 80.4508, 14.8238



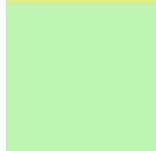
## Protanomaly

63.7728, 78.9523, 20.0617



## Deuteranomaly

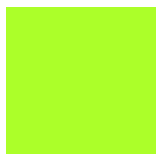
65.7087, 78.3252, 34.5767



## Tritanomaly

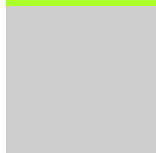
61.2728, 78.6945, 53.5551

# Monochromacy



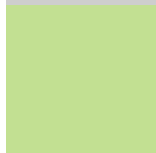
## Original Color

53.1735, 80.4508, 14.8238



## Achromatopsia

58.6655, 61.7207, 67.2138



## Achromatomaly

54.0921, 66.8560, 37.2477

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 53.1735, 80.4508, 14.8238 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(172, 255, 41)` looks like.

```
.text, #text, p{  
    color:rgb(172, 255, 41)  
}
```

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(172, 255, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 255, 41) }
```

## Border

The CSS property to change the border of an element to XYZ 53.1735, 80.4508, 14.8238 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(172, 255, 41) }
```



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

```
.border{ border-color:rgb(172, 255, 41) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 255, 41)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 255, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 255, 41);  
box-shadow:4px 4px 4px 4px rgb(172, 255,  
41) }
```

# Background

The CSS property to change the background color of an element to XYZ 53.1735, 80.4508, 14.8238 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 255, 41) }
```

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

```
.background{ background-color: rgb(172,  
255, 41) }
```

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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