

# Converting Colors

XYZ(33.6487, 57.9724, 33.5940)

Have a look what the booklet for  
XYZ(33.6487, 57.9724, 33.5940)  
contains.

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# Color

**XYZ(33.6462, 57.9999,  
33.4665)**

# Conversions

## Conversions Part 1

Format	Color
Hex	32E48A
RGB	50, 228, 138
RGB Percent	20%, 89%, 54%
CMY	0.8039, 0.1059, 0.4588
CMYK	0.78, 0.00, 0.39, 0.11
HSL	150°, 77%, 55%
HSV	150°, 78%, 89%
XYZ	33.6462, 57.9999, 33.4665
YIQ	164.5180, -77.1980, -65.7260

# Conversions

## Conversions Part 2

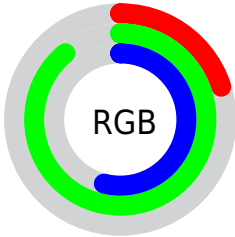
Format	Color
<a href="#">RYB</a>	<a href="#">50, 169, 228</a>
Decimal	<a href="#">3335306</a>
CIELab	<a href="#">80.74, -63.28, 31.82</a>
CIELCh	<a href="#">81, 70.826, 153.305</a>
Yxy	<a href="#">57.9999, 0.2689, 0.4636</a>
Android (android.graphics.Color)	<a href="#">4281525386 (0xFF32E48A)</a>
YUV	<a href="#">164.5180, -13.0734, -100.4323</a>
Hunter-Lab	<a href="#">76.1577, -54.4152, 27.2561</a>

# Details

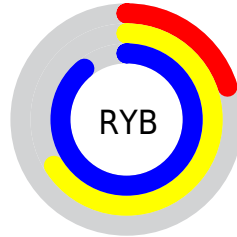
The XYZ color **33.6462, 57.9999, 33.4665** is a dark color, and the websafe version is hex **66FF99**. The color can be described as middle washed spring green. A complement of this color would be **37.8709, 20.6697, 26.8065**, and the grayscale version is **35.6218, 37.4769, 40.8124**.

A 20% lighter version of the original color is **53.5866, 79.6109, 62.4113**, and **16.2832, 29.8139, 13.9133** is the 20% darker color. If you saturate the color by 10%, you get **31.9984, 57.2434, 29.2620**, and if you desaturate by 10%, it is **35.9446, 59.0847, 38.1665**.

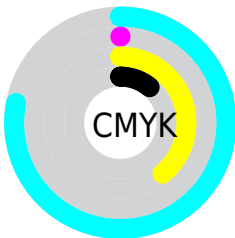
# Distribution



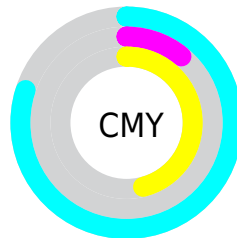
- Red (20%)
- Green (89%)
- Blue (54%)



- Red (20%)
- Yellow (66%)
- Blue (89%)



- Cyan (78%)
- Magenta (0%)
- Yellow (39%)
- Black (11%)




- Cyan (80%)
- Magenta (11%)
- Yellow (46%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 33.6462, 57.9999, 33.4665 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 33.6462, 57.9999, 33.4665 by changing the saturation by 10% instead.





 33.6462, 57.9999,  
33.4665


 33.6462, 57.9999,  
33.4665


310.1653,  
417.1856, 332.4428


 22.7835, 41.8086,  
22.2100


 64.7311, 101.9227,  
66.2276


 14.5536, 28.9514,  
13.8115


 85.6840, 130.4230,  
88.5692


 8.5909, 19.0441,  
7.8524


 110.7310,  
163.7950, 115.4430

 4.5303, 11.7021,  
3.9143

 140.2375,  
202.4232, 147.2674

 2.0063, 6.5412,  
1.5784

 174.5688,  
246.6920, 184.4611

 0.6375, 3.1769,  
0.2754

214.0903,

 0.0000, 1.2248,

296.9857, 227.4425

0.0000

259.1674,  
353.6888, 276.6303

■ 0.0000, 0.0818,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 33.6462, 57.9999,  
33.4665

■ 33.6462, 57.9999,  
33.4665

■ 31.9984, 57.2434,  
29.2620

■ 35.9446, 59.0847,  
38.1665


■ 30.8910, 56.7539,  
25.5297


■ 38.9651, 60.5297,  
43.3754


■ 30.7094, 56.6749,  
24.8609


■ 42.7738, 62.3701,  
49.1106


■ 47.4279, 64.6353,  
55.3875

 52.9789, 67.3515,  
62.2207

 59.4742, 70.5428,  
69.6241

 66.9578, 74.2317,  
77.6112

 75.4707, 78.4391,  
86.1950

 84.9753, 83.1453,  
95.3844

# Harmonies

## Analogous

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



41.0964, 57.9999, 16.9541



33.6462, 57.9999, 33.4665



31.5696, 57.9999, 67.9045

# Triad

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



33.6462, 57.9999, 33.4665



56.7625, 57.9999, 182.3291



82.0950, 57.9999, 28.4767

# Complementary

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



33.6462, 57.9999, 33.4665



37.8709, 20.6697, 26.8065

# 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.



88.1958, 57.9999, 58.6266



33.6462, 57.9999, 33.4665



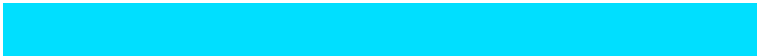
72.0351, 57.9999, 157.0745

# Square

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



33.6462, 57.9999, 33.4665



43.4460, 57.9999, 165.7434



84.2250, 57.9999, 106.6268



68.7343, 57.9999, 15.0963



# Rectangle

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



33.6462, 57.9999, 33.4665



33.1434, 57.9999, 100.6268



84.2250, 57.9999, 106.6268



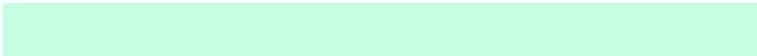
85.1601, 57.9999, 36.3715

# Sweetspot

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



33.6477, 58.0022, 33.4678



72.2538, 88.7579, 84.8050



39.4706, 61.4675, 12.8021



14.8324, 18.6871, 17.4203



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.



33.6477, 58.0022, 33.4678



40.2512, 73.3398, 34.5163



42.6558, 61.6055, 80.9037



14.4849, 16.2074, 16.8182



17.7917, 32.7488, 14.6694



1.3616, 2.4388, 1.3308



# Inverse Universe

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



37.8709, 20.6697, 26.8065



45.8945, 23.4020, 25.5768



33.7788, 19.0329, 5.2580



14.6795, 14.4890, 16.5127



20.3313, 10.2668, 10.6398

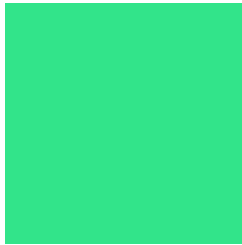


1.5493, 0.7774, 1.0332



# Previews

## White Background



This preview shows how the XYZ color 33.6462, 57.9999, 33.4665 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 33.6462, 57.9999, 33.4665 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

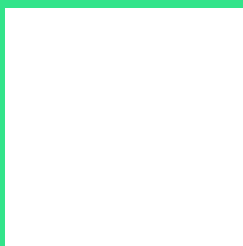
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**XYZ 33.6462, 57.9999, 33.4665**

## **Background**



This preview shows how black text looks on a background with the XYZ color 33.6462, 57.9999, 33.4665.



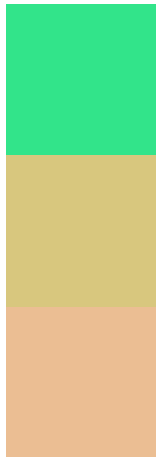
This preview shows how white text looks on a background with the XYZ color 33.6462, 57.9999,



# 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

33.6462, 57.9999, 33.4665

### Protanopia

52.5082, 56.9521, 27.9640

### Deuteranopia

57.9409, 56.5957, 35.4740



## Tritanopia

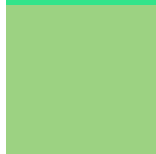
44.2802, 57.9459, 86.6928

# Trichromacy



## Original Color

33.6462, 57.9999, 33.4665



## Protanomaly

40.7862, 54.7728, 29.5416



## Deuteranomaly

42.7754, 53.5242, 34.4623



## Tritanomaly

39.3071, 57.4561, 63.0513

# Monochromacy



## Original Color

33.6462, 57.9999, 33.4665



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

32.0680, 42.5440, 37.5320

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 33.6462, 57.9999, 33.4665 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(50, 228, 138)` looks like.

```
.text, #text, p{  
    color:rgb(50, 228, 138)  
}
```

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(50, 228, 138) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(50, 228, 138) }
```

## Border

The CSS property to change the border of an element to XYZ 33.6462, 57.9999, 33.4665 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(50, 228, 138) }
```



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

```
.border{ border-color:rgb(50, 228, 138) }
```

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

Here you see how a box with a 4 pixel `rgb(50, 228, 138)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(50, 228, 138); -webkit-box-  
shadow:4px 4px 4px 4px rgb(50, 228, 138);  
box-shadow:4px 4px 4px 4px rgb(50, 228,  
138) }
```

# Background

The CSS property to change the background color of an element to XYZ 33.6462, 57.9999, 33.4665 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(50, 228, 138) }
```

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

```
.background{ background-color: rgb(50, 228,  
138) }
```

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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