

# Converting Colors

XYZ(37.7166, 72.3326, 20.8717)

Have a look what the booklet for  
XYZ(37.7166, 72.3326, 20.8717)  
contains.

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# Color

**XYZ(37.7083, 72.3303,  
20.7778)**

# Conversions

## Conversions Part 1

Format	Color
Hex	13FF56
RGB	19, 255, 86
RGB Percent	7%, 100%, 34%
CMY	0.9255, 0.0000, 0.6627
CMYK	0.93, 0.00, 0.66, 0.00
HSL	137°, 100%, 54%
HSV	137°, 93%, 100%
XYZ	37.7083, 72.3303, 20.7778
YIQ	165.1700, -86.4070, -102.5910

# Conversions

## Conversions Part 2

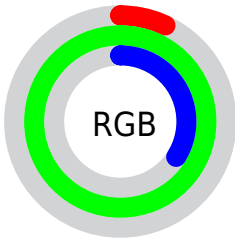
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">19, 203, 255</a>
Decimal	<a href="#">1310550</a>
CIELab	<a href="#">88.13, -81.43, 64.39</a>
CIELCh	<a href="#">88, 103.807, 141.666</a>
Yxy	<a href="#">72.3303, 0.2883, 0.5529</a>
Android (android.graphics.Color)	<a href="#">4279500630 (0xFF13FF56)</a>
YUV	<a href="#">165.1700, -39.0308, -128.1911</a>
Hunter-Lab	<a href="#">85.0472, -69.6892, 45.0480</a>

# Details

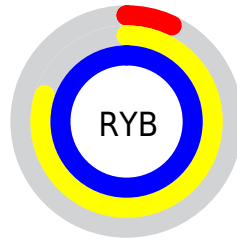
The XYZ color **37.7083, 72.3303, 20.7778** is a dark color, and the websafe version is hex **00FF66**. The color can be described as dark washed green. A complement of this color would be **50.5503, 25.3569, 49.8083**, and the grayscale version is **36.0583, 37.9361, 41.3124**.

A 20% lighter version of the original color is **48.3882, 77.4661, 37.9933**, and **19.8662, 39.5304, 7.2449** is the 20% darker color. If you saturate the color by 10%, you get **36.9426, 71.9930, 18.1475**, and if you desaturate by 10%, it is **39.3329, 73.0717, 25.1988**.

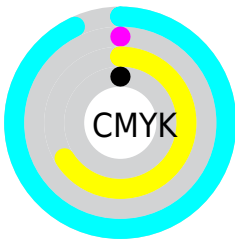
# Distribution



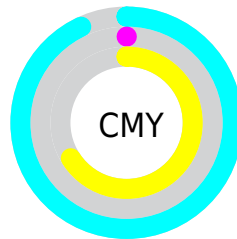
- Red (7%)
- Green (100%)
- Blue (34%)



- Red (7%)
- Yellow (80%)
- Blue (100%)



- Cyan (93%)
- Magenta (0%)
- Yellow (66%)
- Black (0%)




- Cyan (93%)
- Magenta (0%)
- Yellow (66%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 37.7083, 72.3303, 20.7778 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 37.7083, 72.3303, 20.7778 by changing the saturation by 10% instead.





 37.7083, 72.3303,  
20.7778


 37.7083, 72.3303,  
20.7778


327.6695,  
468.6904, 268.8374

 25.9326, 53.4285,  
12.7720


 70.9676, 122.5260,  
45.5934


 16.9056, 38.1450,  
7.1429


 93.1819, 154.5888,  
63.2403

 10.2621, 26.0952,  
3.4718


 119.6064,  
191.8073, 84.9380

 5.6367, 16.8949,  
1.3403

 150.6064,  
234.5660, 111.1051

 2.6640, 10.1596,  
0.0945

186.5474,  
283.2493, 142.1600

 0.9787, 5.5049,  
0.0000

227.7947,

 0.0000, 2.5464,

338.2415, 178.5213

0.0000

274.7136,  
399.9271, 220.6076

■ 0.0000, 0.8998,  
0.0000

■ 0.0000, 0.0000,  
0.0000

■ 37.7083, 72.3303,  
20.7778

■ 37.7083, 72.3303,  
20.7778


■ 36.9426, 71.9930,  
18.1475


■ 39.3329, 73.0717,  
25.1988


■ 41.8319, 74.2406,  
30.7090


■ 45.3241, 75.8969,  
37.3771


■ 49.9084, 78.0904,  
45.2651

 55.6711, 80.8643,  
54.4305

 62.6897, 84.2574,  
64.9269

 71.0349, 88.3053,  
76.8050

 80.7721, 93.0405,  
90.1126

 91.9620, 98.4935,  
104.8954

# Harmonies

## Analogous

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



52.5976, 72.3303, 7.7982



37.7083, 72.3303, 20.7778



31.5272, 72.3303, 60.5678

# Triad

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



37.7083, 72.3303, 20.7778



62.0631, 72.3303, 306.0051



123.2904, 72.3303, 38.3192

# Complementary

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



37.7083, 72.3303, 20.7778



50.5503, 25.3569, 49.8083

# 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.



127.5700, 72.3303, 100.2618



37.7083, 72.3303, 20.7778



87.9056, 72.3303, 286.1613

# Square

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



37.7083, 72.3303, 20.7778



43.2028, 72.3303, 241.8675



113.3640, 72.3303, 197.5091



102.7813, 72.3303, 12.8503



# Rectangle

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



37.7083, 72.3303, 20.7778



31.8146, 72.3303, 109.7355



113.3640, 72.3303, 197.5091



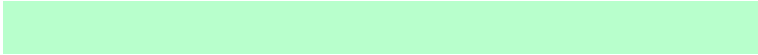
126.8440, 72.3303, 54.2350

# Sweetspot

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



37.7086, 72.3305, 20.7790



66.3150, 86.0144, 70.1525



56.6500, 82.2756, 13.5114



13.4561, 18.0529, 13.9523



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.



37.7086, 72.3305, 20.7790



36.9426, 71.9930, 18.1475



46.9120, 76.0118, 69.2432



17.9835, 20.2529, 20.2163



19.3582, 37.6399, 9.7715



1.9293, 3.6827, 1.1856



# Inverse Universe

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



50.5503, 25.3569, 49.8083



49.7463, 24.6625, 46.7234



42.5829, 22.1700, 7.8523



18.5598, 18.2072, 21.5653



26.0609, 12.9136, 24.7688

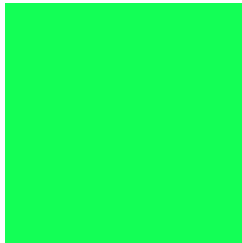


2.5844, 1.2761, 2.6590



# Previews

## White Background



This preview shows how the XYZ color 37.7083, 72.3303, 20.7778 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 37.7083, 72.3303, 20.7778 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

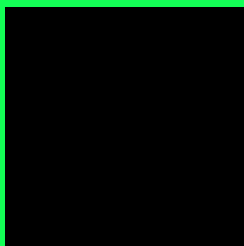
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**XYZ 37.7083, 72.3303, 20.7778**

## **Background**



This preview shows how black text looks on a background with the XYZ color 37.7083, 72.3303, 20.7778.



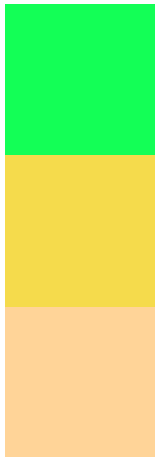
This preview shows how white text looks on a background with the XYZ color 37.7083, 72.3303,



# 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

37.7083, 72.3303, 20.7778

### Protanopia

64.2922, 70.5973, 17.0756

### Deuteranopia

70.4510, 70.6140, 39.6225



## Tritanopia

55.8054, 71.6399, 105.4944

# Trichromacy



## Original Color

37.7083, 72.3303, 20.7778



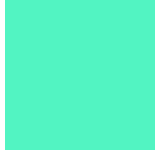
## Protanomaly

45.4088, 66.0789, 17.9506



## Deuteranomaly

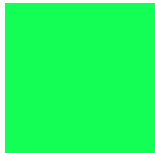
48.0019, 65.4803, 30.5311



## Tritanomaly

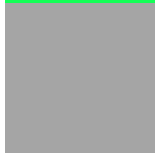
45.5680, 70.3902, 62.2239

# Monochromacy



## Original Color

37.7083, 72.3303, 20.7778



## Achromatopsia

35.7637, 37.6262, 40.9749



## Achromatomaly

31.3201, 45.6105, 30.4455

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 37.7083, 72.3303, 20.7778 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(19, 255, 86)` looks like.

```
.text, #text, p{  
    color:rgb(19, 255, 86)  
}
```

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(19, 255, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(19, 255, 86) }
```

## Border

The CSS property to change the border of an element to XYZ 37.7083, 72.3303, 20.7778 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(19, 255, 86) }
```



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

```
.border{ border-color:rgb(19, 255, 86) }
```

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

Here you see how a box with a 4 pixel rgb(19, 255, 86) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(19, 255, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(19, 255, 86);  
box-shadow:4px 4px 4px 4px rgb(19, 255,  
86) }
```

# Background

The CSS property to change the background color of an element to XYZ 37.7083, 72.3303, 20.7778 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(19, 255, 86) }
```

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

```
.background{ background-color: rgb(19, 255,  
86) }
```

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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