

# Converting Colors

XYZ(42.0178, 72.1458, 23.7671)

Have a look what the booklet for  
XYZ(42.0178, 72.1458, 23.7671)  
contains.

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# Color

**XYZ(41.9653, 72.1161,  
23.7646)**

# Conversions

## Conversions Part 1

Format	Color
Hex	66FA64
RGB	102, 250, 100
RGB Percent	40%, 98%, 39%
CMY	0.6000, 0.0196, 0.6078
CMYK	0.59, 0.00, 0.60, 0.02
HSL	119°, 94%, 69%
HSV	119°, 60%, 98%
XYZ	41.9653, 72.1161, 23.7646
YIQ	188.6480, -40.0580, -78.0260

# Conversions

## Conversions Part 2

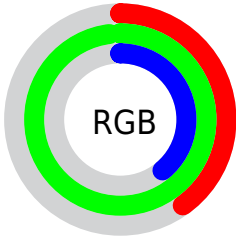
Format	Color
<a href="#">RYB</a>	<a href="#">100, 250, 248</a>
Decimal	<a href="#">6748772</a>
CIELab	<a href="#">88.02, -67.65, 58.94</a>
CIELCh	<a href="#">88, 89.720, 138.937</a>
Yxy	<a href="#">72.1161, 0.3044, 0.5232</a>
Android (android.graphics.Color)	<a href="#">4284938852 (0xFF66FA64)</a>
YUV	<a href="#">188.6480, -43.7035, -75.9903</a>
Hunter-Lab	<a href="#">84.9212, -60.4032, 42.8529</a>

# Details

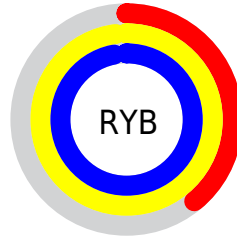
The XYZ color **41.9653, 72.1161, 23.7646** is a light color, and the websafe version is hex **66FF66**. A complement of this color would be **60.5283, 35.9757, 94.2002**, and the grayscale version is **48.4283, 50.9503, 55.4849**.

A 20% lighter version of the original color is **57.1934, 81.8859, 43.8015**, and **19.3733, 37.9189, 8.5835** is the 20% darker color. If you saturate the color by 10%, you get **38.5447, 70.4738, 18.2286**, and if you desaturate by 10%, it is **46.5921, 74.3415, 31.2974**.

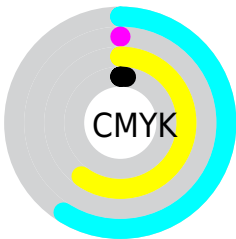
# Distribution



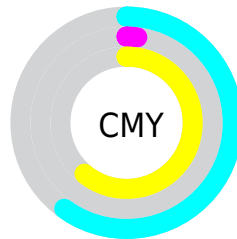
- Red (40%)
- Green (98%)
- Blue (39%)



- Red (39%)
- Yellow (98%)
- Blue (97%)



- Cyan (59%)
- Magenta (0%)
- Yellow (60%)
- Black (2%)




- Cyan (60%)
- Magenta (2%)
- Yellow (61%)

# Brightness & Saturation Gradients

These gradients show how the XYZ color 41.9653, 72.1161, 23.7646 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 41.9653, 72.1161, 23.7646 by changing the saturation by 10% instead.





 41.9653, 72.1161,  
23.7646

 41.9653, 72.1161,  
23.7646


345.3331,  
467.9456, 284.8763


 29.2651, 53.2535,  
14.9485


 77.4126, 122.2216,  
50.5848


 19.4268, 38.0052,  
8.6370


 100.8904,  
154.2333, 69.4260

 12.0849, 25.9867,  
4.4116


 128.6915,  
191.3968, 92.4459

 6.8741, 16.8137,  
1.8538

 161.1812,  
234.0965, 120.0632

 3.4291, 10.1018,  
0.4631

198.7248,  
282.7169, 152.6964

 1.3845, 5.4665,  
0.0000

241.6878,

 0.2452, 2.5235,

337.6423, 190.7639

0.0000

290.4355,  
399.2570, 234.6844

0.0000, 0.8884,  
0.0000

0.0000, 0.0000,  
0.0000

41.9653, 72.1161,  
23.7646

41.9653, 72.1161,  
23.7646

38.5447, 70.4738,  
18.2286

46.5921, 74.3415,  
31.2974

36.2135, 69.3523,  
14.4957


52.5174, 77.1878,  
40.9872


34.8414, 68.6912,  
12.3423


59.8308, 80.7001,  
52.9837


34.2288, 68.3956,  
11.3977

68.6123, 84.9166,  
67.4218

 34.2287, 68.3956,  
11.3976

 78.9359, 89.8729,  
84.4259

 90.8705, 95.6021,  
104.1121

 93.4771, 96.8541,  
108.3757

# Harmonies

## Analogous

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



56.0391, 72.1161, 11.4817



41.9653, 72.1161, 23.7646



35.5733, 72.1161, 58.0115

# Triad

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



41.9653, 72.1161, 23.7646



60.9481, 72.1161, 260.2438



115.2946, 72.1161, 46.1516

# Complementary

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



41.9653, 72.1161, 23.7646



60.5283, 35.9757, 94.2002

# Split Complementary

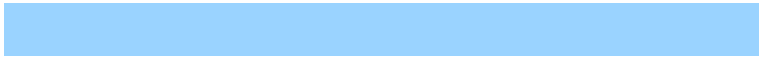
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



117.3755, 72.1161, 103.3738



41.9653, 72.1161, 23.7646



82.7835, 72.1161, 251.0438

# Square

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



41.9653, 72.1161, 23.7646



44.9126, 72.1161, 205.0993



104.4844, 72.1161, 184.1527



99.2811, 72.1161, 18.9706



# Rectangle

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



41.9653, 72.1161, 23.7646



35.4024, 72.1161, 98.2887



104.4844, 72.1161, 184.1527



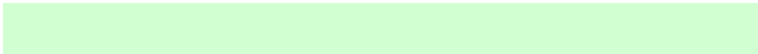
117.7553, 72.1161, 61.6011

# Sweetspot

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



41.9670, 72.1191, 23.7662



73.7770, 89.7876, 73.8288



75.1418, 88.0757, 25.0976



15.1638, 18.9170, 14.7696



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.



41.9670, 72.1191, 23.7662



39.7222, 73.4297, 18.1085



46.9381, 74.0817, 51.1096



17.0387, 19.3202, 18.2935



18.1646, 36.2825, 6.0458



1.6896, 3.3641, 0.5603



# Inverse Universe

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



60.5283, 35.9757, 94.2002



60.6758, 32.5772, 97.6978



51.9698, 32.6345, 45.4191



17.9689, 17.5121, 21.8184



29.4485, 14.1240, 49.1476

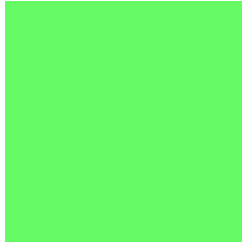


2.7346, 1.3118, 4.5523



# Previews

## White Background



This preview shows how the XYZ color 41.9653, 72.1161, 23.7646 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 41.9653, 72.1161, 23.7646 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 41.9653, 72.1161, 23.7646**

## **Background**



This preview shows how black text looks on a background with the XYZ color 41.9653, 72.1161, 23.7646.



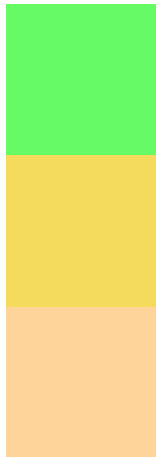
This preview shows how white text looks on a background with the XYZ color 41.9653, 72.1161,



# 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

41.9653, 72.1161, 23.7646

### Protanopia

64.5281, 70.6515, 20.1336

### Deuteranopia

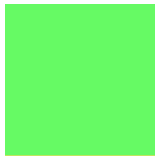
70.6162, 70.6801, 40.4926



## Tritanopia

57.6337, 71.3408, 103.6610

# Trichromacy



## Original Color

41.9653, 72.1161, 23.7646



## Protanomaly

52.0554, 68.6082, 21.0888



## Deuteranomaly

55.0526, 68.2561, 32.8274



## Tritanomaly

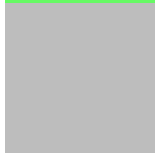
49.6956, 70.7114, 63.8528

# Monochromacy



## Original Color

41.9653, 72.1161, 23.7646



## Achromatopsia

48.3692, 50.8881, 55.4172



## Achromatomaly

43.2847, 56.1910, 40.4629

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 41.9653, 72.1161, 23.7646 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(102, 250, 100)` looks like.

```
.text, #text, p{  
    color:rgb(102, 250, 100)  
}
```

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(102, 250, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(102, 250, 100) }
```

## Border

The CSS property to change the border of an element to XYZ 41.9653, 72.1161, 23.7646 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(102, 250, 100) }
```



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

```
.border{ border-color:rgb(102, 250, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(102, 250, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(102, 250, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(102, 250, 100);  
box-shadow:4px 4px 4px 4px rgb(102, 250,  
100) }
```

# Background

The CSS property to change the background color of an element to XYZ 41.9653, 72.1161, 23.7646 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(102, 250, 100) }
```

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

```
.background{ background-color: rgb(102,  
250, 100) }
```

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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