

# Converting Colors

XYZ(40.4406, 70.5426, 23.1873)

Have a look what the booklet for  
XYZ(40.4406, 70.5426, 23.1873)  
contains.

<b>XYZ(40.3337, 70.3628, 23.2600)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	24
<b><i>Color Blindness Simulation</i></b> .....	28
<b><i>CSS Examples</i></b> .....	31

# Color

**XYZ(40.3337, 70.3628,  
23.2600)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5DF863
RGB	93, 248, 99
RGB Percent	36%, 97%, 39%
CMY	0.6353, 0.0274, 0.6117
CMYK	0.63, 0.00, 0.60, 0.03
HSL	122°, 92%, 67%
HSV	122°, 63%, 97%
XYZ	40.3337, 70.3628, 23.2600
YIQ	184.6690, -44.5510, -79.1990

# Conversions

## Conversions Part 2

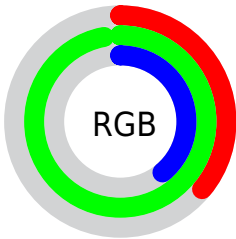
Format	Color
<a href="#">RYB</a>	<a href="#">93, 242, 248</a>
Decimal	<a href="#">6158435</a>
CIELab	<a href="#">87.17, -68.98, 58.33</a>
CIElCh	<a href="#">87, 90.339, 139.784</a>
Yxy	<a href="#">70.3628, 0.3011, 0.5253</a>
Android (android.graphics.Color)	<a href="#">4284348515 (0xFF5DF863)</a>
YUV	<a href="#">184.6690, -42.2348, -80.3937</a>
Hunter-Lab	<a href="#">83.8825, -60.9653, 42.2771</a>

# Details

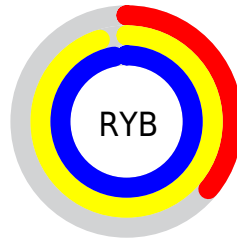
The XYZ color **40.3337, 70.3628, 23.2600** is a dark color, and the websafe version is hex **66FF66**. The color can be described as middle muted spring green. A complement of this color would be **58.6545, 34.1969, 87.5139**, and the grayscale version is **46.1765, 48.5813, 52.9050**.

A 20% lighter version of the original color is **55.6933, 81.1222, 43.2947**, and **18.8495, 37.0013, 8.4340** is the 20% darker color. If you saturate the color by 10%, you get **37.2423, 68.8840, 18.0193**, and if you desaturate by 10%, it is **44.5784, 72.4014, 30.3132**.

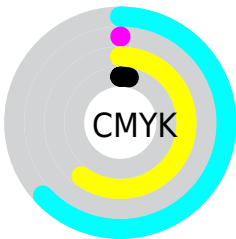
# Distribution



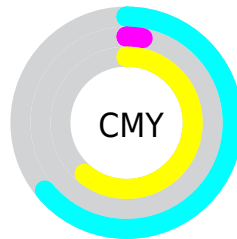
- Red (36%)
- Green (97%)
- Blue (39%)



- Red (36%)
- Yellow (95%)
- Blue (97%)



- Cyan (63%)
- Magenta (0%)
- Yellow (60%)
- Black (3%)




- Cyan (64%)
- Magenta (3%)
- Yellow (61%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 40.3337, 70.3628, 23.2600 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 40.3337, 70.3628, 23.2600 by changing the saturation by 10% instead.





 40.3337, 70.3628,  
23.2600


 40.3337, 70.3628,  
23.2600


338.6384,  
461.8228, 282.2227


 27.9842, 51.8224,  
14.5785


 74.9525, 119.7260,  
49.7485


 18.4541, 36.8635,  
8.3808


 97.9525, 151.3175,  
68.3926

 11.3782, 25.1018,  
4.2483


 125.2334,  
188.0282, 91.1946

 6.3910, 16.1529,  
1.7625

 157.1605,  
230.2425, 118.5731

 3.1271, 9.6324,  
0.4031

194.0992,  
278.3447, 150.9466

 1.2214, 5.1559,  
0.0000

236.4149,

 0.1231, 2.3390,

332.7192, 188.7337

0.0000

284.4728,  
393.7504, 232.3529

0.0000, 0.7943,  
0.0000

0.0000, 0.0000,  
0.0000

40.3337, 70.3628,  
23.2600

40.3337, 70.3628,  
23.2600

37.2423, 68.8840,  
18.0193

44.5784, 72.4014,  
30.3132

35.1866, 67.9018,  
14.4215


50.0693, 75.0384,  
39.3189

34.0331, 67.3535,  
12.2734


56.8955, 78.3191,  
50.4090

33.6214, 67.1587,  
11.4668

65.1368, 82.2819,  
63.7023

 74.8664, 86.9624,  
79.3089

 86.1527, 92.3934,  
97.3315

 92.8588, 95.6176,  
108.1696

# Harmonies

## Analogous

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



54.0095, 70.3628, 10.9056



40.3337, 70.3628, 23.2600



34.2521, 70.3628, 57.7203

# Triad

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



40.3337, 70.3628, 23.2600



59.9067, 70.3628, 258.4614



113.0257, 70.3628, 43.5072

# Complementary

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



40.3337, 70.3628, 23.2600



58.6545, 34.1969, 87.5139

# Split Complementary

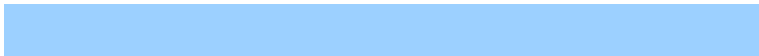
Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



115.5406, 70.3628, 99.2350



40.3337, 70.3628, 23.2600



81.6430, 70.3628, 247.2912

# Square

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



40.3337, 70.3628, 23.2600



43.8634, 70.3628, 204.7772



103.0770, 70.3628, 179.3894



96.7949, 70.3628, 17.5788



# Rectangle

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



40.3337, 70.3628, 23.2600



34.2180, 70.3628, 98.2098



103.0770, 70.3628, 179.3894



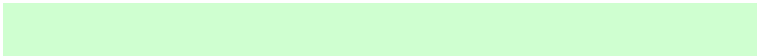
115.6174, 70.3628, 58.4402

# Sweetspot

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



40.3354, 70.3657, 23.2616



72.8043, 89.2958, 73.3488



72.4508, 86.9538, 23.3212



14.9770, 18.8215, 14.7260



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.



40.3354, 70.3657, 23.2616



39.0005, 73.0586, 18.0341



45.8868, 72.5863, 52.4950



17.0446, 19.3201, 18.4356



18.1732, 36.2823, 6.2553



1.6924, 3.3641, 0.6282



# Inverse Universe

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



58.6545, 34.1969, 87.5139



59.9393, 31.6507, 91.4253



49.4495, 30.5149, 39.0414



17.9623, 17.5123, 21.6571



29.2925, 14.1327, 45.1105

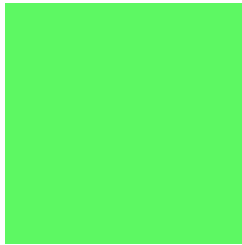


2.7218, 1.3125, 4.2244



# Previews

## White Background



This preview shows how the XYZ color 40.3337, 70.3628, 23.2600 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 40.3337, 70.3628, 23.2600 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 40.3337, 70.3628, 23.2600**

## **Background**



This preview shows how black text looks on a background with the XYZ color 40.3337, 70.3628, 23.2600.



This preview shows how white text looks on a background with the XYZ color 40.3337, 70.3628,



# 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

40.3337, 70.3628, 23.2600

### Protanopia

62.9339, 69.0647, 19.6867

### Deuteranopia

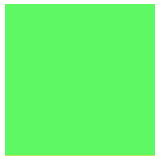
69.1513, 68.9053, 36.4434



## Tritanopia

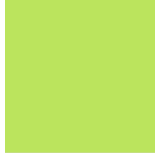
55.9116, 70.0682, 101.8444

# Trichromacy



## Original Color

40.3337, 70.3628, 23.2600



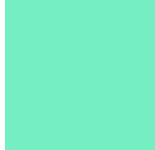
## Protanomaly

50.2127, 66.8419, 20.6112



## Deuteranomaly

53.0489, 66.0696, 30.3788



## Tritanomaly

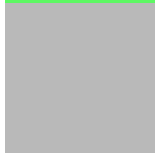
47.8745, 68.9165, 63.0035

# Monochromacy



## Original Color

40.3337, 70.3628, 23.2600



## Achromatopsia

46.1135, 48.5150, 52.8328



## Achromatomaly

41.3375, 54.1202, 38.8394

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 40.3337, 70.3628, 23.2600 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(93, 248, 99)` looks like.

```
.text, #text, p{  
    color:rgb(93, 248, 99)  
}
```

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(93, 248, 99) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(93, 248, 99) }
```

## Border

The CSS property to change the border of an element to XYZ 40.3337, 70.3628, 23.2600 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(93, 248, 99) }
```



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

```
.border{ border-color:rgb(93, 248, 99) }
```

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

Here you see how a box with a 4 pixel `rgb(93, 248, 99)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(93, 248, 99); -webkit-box-  
shadow:4px 4px 4px 4px rgb(93, 248, 99);  
box-shadow:4px 4px 4px 4px rgb(93, 248,  
99) }
```

# Background

The CSS property to change the background color of an element to XYZ 40.3337, 70.3628, 23.2600 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(93, 248, 99) }
```

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

```
.background{ background-color: rgb(93, 248,  
99) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor