

# Converting Colors

XYZ(21.6052, 35.7312, 15.4249)

Have a look what the booklet for  
XYZ(21.6052, 35.7312, 15.4249)  
contains.

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# Color

**XYZ(21.6340, 35.7719,  
15.4373)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4DB65A
RGB	77, 182, 90
RGB Percent	30%, 71%, 35%
CMY	0.6980, 0.2863, 0.6470
CMYK	0.58, 0.00, 0.51, 0.29
HSL	127°, 42%, 51%
HSV	127°, 58%, 71%
XYZ	21.6340, 35.7719, 15.4373
YIQ	140.1170, -33.0480, -50.8720

# Conversions

## Conversions Part 2

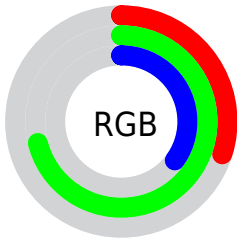
<b>Format</b>	<b>Color</b>
<b>RYB</b>	77, 170, 182
Decimal	5092954
CIELab	66.35, -49.65, 37.69
CIELCh	66, 62.336, 142.802
Yxy	35.7719, 0.2970, 0.4911
Android (android.graphics.Color)	4283283034 (0xFF4DB65A)
YUV	140.1170, -24.7077, -55.3536
Hunter-Lab	59.8096, -40.1008, 26.5635

# Details

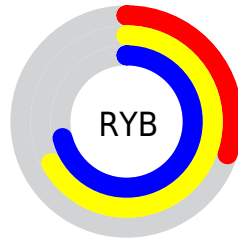
The XYZ color **21.6340, 35.7719, 15.4373** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **29.1078, 18.1180, 39.5000**, and the grayscale version is **25.0758, 26.3817, 28.7297**.

A 20% lighter version of the original color is **45.7407, 68.8369, 36.4673**, and **8.1194, 15.5984, 4.6807** is the 20% darker color. If you saturate the color by 10%, you get **19.7584, 34.8762, 12.1788**, and if you desaturate by 10%, it is **24.0678, 36.9406, 19.4836**.

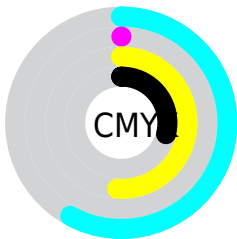
# Distribution



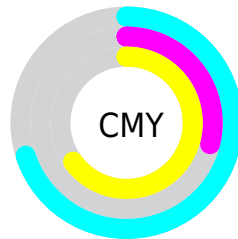
- Red (30%)
- Green (71%)
- Blue (35%)



- Red (30%)
- Yellow (67%)
- Blue (71%)



- Cyan (58%)
- Magenta (0%)
- Yellow (51%)
- Black (29%)




- Cyan (70%)
- Magenta (29%)
- Yellow (65%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.6340, 35.7719, 15.4373 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 21.6340, 35.7719, 15.4373 by changing the saturation by 10% instead.




 21.6340, 35.7719,  
15.4373


 21.6340, 35.7719,  
15.4373

253.2974,  
327.9625, 237.7293


 13.7033, 24.2581,  
8.9768


 45.6237, 68.6799,  
36.3716

 7.9949, 15.5252,  
4.6295


 62.4134, 90.8428,  
51.6826


 4.1435, 9.1888,  
1.9766


 82.8869, 117.3242,  
70.7808

 1.7836, 4.8645,  
0.5409

 107.4094,  
148.5085, 94.0847

 0.5078, 2.1680,  
0.0000

 136.3463,  
184.7801, 122.0130

 0.0000, 0.7025,  
0.0000

170.0631,

 0.0000, 0.0000,

226.5233, 154.9842

0.0000

208.9250,  
274.1227, 193.4168

■ 21.6340, 35.7719,  
15.4373

■ 21.6340, 35.7719,  
15.4373

■ 19.7584, 34.8762,  
12.1788

■ 24.0678, 36.9406,  
19.4836

■ 18.3938, 34.2272,  
9.6546

■ 27.0969, 38.3973,  
24.3619

■ 17.4893, 33.8008,  
7.8082

■ 30.7583, 40.1613,  
30.1159

■ 16.9701, 33.5600,  
6.5733

■ 35.0852, 42.2487,  
36.7857

■ 16.8787, 33.5174,  
6.3663

■ 40.1085, 44.6748,  
44.4087

■ 45.8570, 47.4536,  
53.0204

■ 52.3581, 50.5985,  
62.6545

■ 59.6377, 54.1223,  
73.3429

■ 67.7203, 58.0368,  
85.1163

# Harmonies

## Analogous

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



27.5196, 35.7719, 8.2148



21.6340, 35.7719, 15.4373



19.1443, 35.7719, 32.8681

# Triad

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



21.6340, 35.7719, 15.4373



31.8045, 35.7719, 115.2403



53.3319, 35.7719, 22.2583

# Complementary

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



21.6340, 35.7719, 15.4373



29.1078, 18.1180, 39.5000

# 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.



55.0493, 35.7719, 45.7383



21.6340, 35.7719, 15.4373



41.4257, 35.7719, 107.9693

# Square

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



21.6340, 35.7719, 15.4373



24.2791, 35.7719, 95.7738



50.3586, 35.7719, 78.9285



46.0210, 35.7719, 10.7096



# Rectangle

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



21.6340, 35.7719, 15.4373



19.3524, 35.7719, 51.4590



50.3586, 35.7719, 78.9285



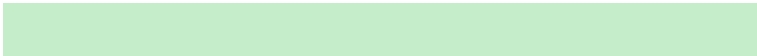
54.6311, 35.7719, 28.6519

# Sweetspot

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



21.6349, 35.7734, 15.4381



63.9504, 76.7593, 67.2149



34.5925, 42.5117, 13.4037



13.7546, 16.7751, 14.2793



88.6918, 93.3107, 101.6153



17.8044, 18.7317, 20.3988



# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



21.6349, 35.7734, 15.4381



35.1250, 62.8962, 20.8264



24.6532, 36.9807, 31.3325



8.9344, 10.0777, 9.8119



11.9329, 23.6741, 4.5685



0.4355, 0.8405, 0.2390



# Inverse Universe

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



29.1078, 18.1180, 39.5000



49.9017, 27.8676, 68.3186



25.1719, 16.5437, 18.7739



9.3318, 9.1431, 11.0945



18.0879, 8.8089, 24.1475



0.6512, 0.3160, 0.9226



# Previews

## White Background



This preview shows how the XYZ color 21.6340, 35.7719, 15.4373 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 21.6340, 35.7719, 15.4373 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 21.6340, 35.7719, 15.4373**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.6340, 35.7719, 15.4373.



This preview shows how white text looks on a background with the XYZ color 21.6340, 35.7719,



# 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

21.6340, 35.7719, 15.4373

### Protanopia

32.2636, 35.1133, 13.2607

### Deuteranopia

35.7970, 35.1149, 16.2004



## Tritanopia

28.8763, 35.7745, 51.2822

# Trichromacy



## Original Color

21.6340, 35.7719, 15.4373



## Protanomaly

26.6669, 34.3399, 14.0269



## Deuteranomaly

28.0583, 33.9384, 15.6616



## Tritanomaly

25.4440, 35.5280, 34.3707

# Monochromacy



## Original Color

21.6340, 35.7719, 15.4373



## Achromatopsia

24.9269, 26.2251, 28.5591



## Achromatomaly

22.5703, 28.6297, 22.7489

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.6340, 35.7719, 15.4373 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(77, 182, 90)` looks like.

```
.text, #text, p{  
    color:rgb(77, 182, 90)  
}
```

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(77, 182, 90) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(77, 182, 90) }
```

## Border

The CSS property to change the border of an element to XYZ 21.6340, 35.7719, 15.4373 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(77, 182, 90) }
```



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

```
.border{ border-color:rgb(77, 182, 90) }
```

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

Here you see how a box with a 4 pixel rgb(77, 182, 90) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(77, 182, 90); -webkit-box-  
shadow:4px 4px 4px 4px rgb(77, 182, 90);  
box-shadow:4px 4px 4px 4px rgb(77, 182,  
90) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.6340, 35.7719, 15.4373 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(77, 182, 90) }
```

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

```
.background{ background-color: rgb(77, 182,  
90) }
```

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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