

# Converting Colors

XYZ(20.3339, 36.2934, 14.0543)

Have a look what the booklet for  
XYZ(20.3339, 36.2934, 14.0543)  
contains.

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# Color

**XYZ(20.3869, 36.3953,  
14.1341)**

# Conversions

## Conversions Part 1

Format	Color
Hex	31BA53
RGB	49, 186, 83
RGB Percent	19%, 73%, 33%
CMY	0.8078, 0.2706, 0.6745
CMYK	0.74, 0.00, 0.55, 0.27
HSL	135°, 58%, 46%
HSV	135°, 74%, 73%
XYZ	20.3869, 36.3953, 14.1341
YIQ	133.2950, -48.5890, -61.0770

# Conversions

## Conversions Part 2

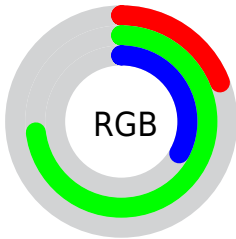
Format	Color
<a href="#">RYB</a>	<a href="#">49, 159, 186</a>
Decimal	<a href="#">3258963</a>
CIELab	<a href="#">66.82, -57.69, 41.53</a>
CIElCh	<a href="#">67, 71.079, 144.250</a>
Yxy	<a href="#">36.3953, 0.2875, 0.5132</a>
Android (android.graphics.Color)	<a href="#">4281449043 (0xFF31BA53)</a>
YUV	<a href="#">133.2950, -24.7954, -73.9267</a>
Hunter-Lab	<a href="#">60.3285, -45.2542, 28.3392</a>

# Details

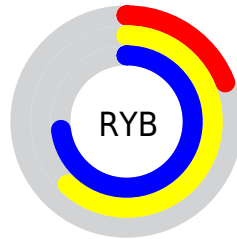
The XYZ color **20.3869, 36.3953, 14.1341** is a dark color, and the websafe version is hex **33CC66**. A complement of this color would be **27.0167, 14.9035, 31.1599**, and the grayscale version is **22.5032, 23.6751, 25.7822**.

A 20% lighter version of the original color is **43.4940, 69.4953, 34.0432**, and **8.3770, 16.3369, 4.0783** is the 20% darker color. If you saturate the color by 10%, you get **19.1816, 35.8312, 11.5384**, and if you desaturate by 10%, it is **22.0730, 37.1967, 17.3224**.

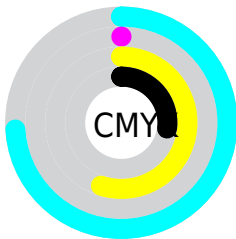
# Distribution



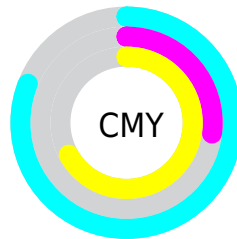
- Red (19%)
- Green (73%)
- Blue (33%)



- Red (19%)
- Yellow (62%)
- Blue (73%)



- Cyan (74%)
- Magenta (0%)
- Yellow (55%)
- Black (27%)




- Cyan (81%)
- Magenta (27%)
- Yellow (67%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 20.3869, 36.3953, 14.1341 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 20.3869, 36.3953, 14.1341 by changing the saturation by 10% instead.





 20.3869, 36.3953,  
14.1341


 20.3869, 36.3953,  
14.1341


246.7958,  
330.6850, 229.5208


 12.7865, 24.7396,  
8.0742


 43.5639, 69.6418,  
34.0473


 7.3577, 15.8832,  
4.0540


 59.8712, 92.0014,  
48.7377


 3.7351, 9.4415,  
1.6550


 79.8116, 118.6977,  
67.1420

 1.5534, 5.0303,  
0.3296

 103.7503,  
150.1153, 89.6787

 0.3617, 2.2650,  
0.0000

 132.0527,  
186.6384, 116.7664

 0.0000, 0.7551,  
0.0000

165.0842,

 0.0000, 0.0000,

228.6515, 148.8237

0.0000

203.2101,  
276.5389, 186.2690

■ 20.3869, 36.3953,  
14.1341

■ 20.3869, 36.3953,  
14.1341

■ 19.1816, 35.8312,  
11.5384

■ 22.0730, 37.1967,  
17.3224

■ 18.3989, 35.4721,  
9.4958

■ 24.2838, 38.2544,  
21.1346

■ 18.0559, 35.3177,  
8.4668

■ 27.0611, 39.5901,  
25.6025

■ 30.4417, 41.2223,  
30.7552

■ 34.4592, 43.1677,  
36.6200

■ 39.1445, 45.4419,  
43.2227

■ 44.5269, 48.0591,  
50.5876

■ 50.6334, 51.0331,  
58.7382

■ 57.4899, 54.3765,  
67.6968

# Harmonies

## Analogous

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



26.7811, 36.3953, 6.4557



20.3869, 36.3953, 14.1341



17.8375, 36.3953, 33.9901

# Triad

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



20.3869, 36.3953, 14.1341



32.5634, 36.3953, 132.4835



57.0596, 36.3953, 19.9535

# Complementary

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



20.3869, 36.3953, 14.1341



27.0167, 14.9035, 31.1599

# 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.



59.4936, 36.3953, 45.8579



20.3869, 36.3953, 14.1341



43.7923, 36.3953, 121.7766

# Square

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



20.3869, 36.3953, 14.1341



23.8701, 36.3953, 109.6696



54.2180, 36.3953, 85.2327



48.1239, 36.3953, 8.3906



# Rectangle

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



20.3869, 36.3953, 14.1341



18.1816, 36.3953, 56.0526



54.2180, 36.3953, 85.2327



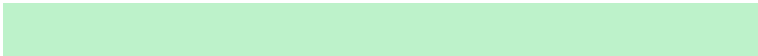
58.7335, 36.3953, 26.7736

# Sweetspot

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



20.3878, 36.3968, 14.1349



63.4839, 78.7391, 67.8421



31.4474, 42.2146, 9.3968



13.5085, 17.1110, 14.2637



90.7827, 95.5105, 104.0109



18.6292, 19.5994, 21.3438



# Same Dimension

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



20.3878, 36.3968, 14.1349



33.8573, 64.5242, 18.6478



24.2888, 37.9572, 34.6771



8.9793, 10.0957, 10.0486



12.1728, 23.7701, 5.8317



0.4546, 0.8481, 0.3396



# Inverse Universe

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



27.0167, 14.9035, 31.1599



46.3676, 23.4928, 50.4309



23.0100, 13.3008, 10.0610



9.2831, 9.1236, 10.8382



16.8311, 8.3062, 17.5293



0.6164, 0.3021, 0.7396



# Previews

## White Background



This preview shows how the XYZ color 20.3869, 36.3953, 14.1341 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 20.3869, 36.3953, 14.1341 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 20.3869, 36.3953, 14.1341**

## **Background**



This preview shows how black text looks on a background with the XYZ color 20.3869, 36.3953, 14.1341.



This preview shows how white text looks on a background with the XYZ color 20.3869, 36.3953,



# 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

20.3869, 36.3953, 14.1341

### Protanopia

32.6053, 35.5814, 11.8060

### Deuteranopia

36.5133, 35.7542, 15.1020



## Tritanopia

28.2616, 36.2654, 53.6545

# Trichromacy



## Original Color

20.3869, 36.3953, 14.1341



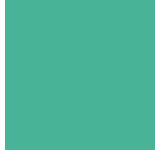
## Protanomaly

25.2656, 34.2050, 12.4783



## Deuteranomaly

26.7671, 33.8333, 14.5709



## Tritanomaly

24.2976, 35.8199, 34.4875

# Monochromacy



## Original Color

20.3869, 36.3953, 14.1341



## Achromatopsia

22.2940, 23.4551, 25.5426



## Achromatomaly

19.8022, 26.5191, 20.2947

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 20.3869, 36.3953, 14.1341 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(49, 186, 83)` looks like.

```
.text, #text, p{  
    color:rgb(49, 186, 83)  
}
```

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(49, 186, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 186, 83) }
```

## Border

The CSS property to change the border of an element to XYZ 20.3869, 36.3953, 14.1341 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(49, 186, 83) }
```



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

```
.border{ border-color:rgb(49, 186, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 186, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 186, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 186, 83);  
box-shadow:4px 4px 4px 4px rgb(49, 186,  
83) }
```

# Background

The CSS property to change the background color of an element to XYZ 20.3869, 36.3953, 14.1341 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 186, 83) }
```

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

```
.background{ background-color: rgb(49, 186,  
83) }
```

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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