

# Converting Colors

XYZ(21.2427, 36.0274, 22.6600)

Have a look what the booklet for  
XYZ(21.2427, 36.0274, 22.6600)  
contains.

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# Color

**XYZ(21.2264, 36.0165,  
22.6627)**

# Conversions

## Conversions Part 1

Format	Color
Hex	28B875
RGB	40, 184, 117
RGB Percent	16%, 72%, 46%
CMY	0.8431, 0.2784, 0.5412
CMYK	0.78, 0.00, 0.36, 0.28
HSL	152°, 64%, 44%
HSV	152°, 78%, 72%
XYZ	21.2264, 36.0165, 22.6627
YIQ	133.3060, -64.3170, -51.3650

# Conversions

## Conversions Part 2

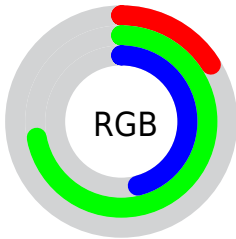
<b>Format</b>	<b>Color</b>
<b>RYB</b>	40, 134, 184
Decimal	2668661
CIELab	66.53, -52.39, 23.77
CIElCh	67, 57.531, 155.594
Yxy	36.0165, 0.2656, 0.4507
Android (android.graphics.Color)	4280858741 (0xFF28B875)
YUV	133.3060, -8.0389, -81.8294
Hunter-Lab	60.0137, -41.8900, 19.6202

# Details

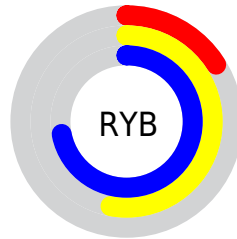
The XYZ color **21.2264, 36.0165, 22.6627** is a dark color, and the websafe version is hex **33CC99**. A complement of this color would be **23.1809, 12.7701, 15.1540**, and the grayscale version is **22.4519, 23.6211, 25.7234**.

A 20% lighter version of the original color is **45.0177, 69.0641, 48.9882**, and **9.0260, 16.3826, 8.1553** is the 20% darker color. If you saturate the color by 10%, you get **20.1936, 35.5406, 20.1063**, and if you desaturate by 10%, it is **22.6474, 36.6891, 25.4793**.

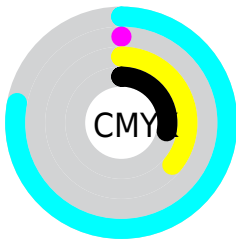
# Distribution



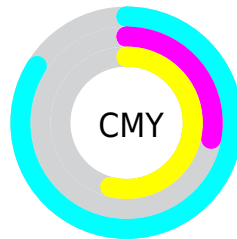
- Red (16%)
- Green (72%)
- Blue (46%)



- Red (16%)
- Yellow (53%)
- Blue (72%)



- Cyan (78%)
- Magenta (0%)
- Yellow (36%)
- Black (28%)




- Cyan (84%)
- Magenta (28%)
- Yellow (54%)


# Brightness & Saturation Gradients

These gradients show how the XYZ color 21.2264, 36.0165, 22.6627 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 21.2264, 36.0165, 22.6627 by changing the saturation by 10% instead.





 21.2264, 36.0165,  
22.6627


 21.2264, 36.0165,  
22.6627


251.1883,  
329.0327, 279.0533


 13.4030, 24.4469,  
14.1417


 44.9525, 69.0575,  
48.7550


 7.7855, 15.6655,  
8.0794


 61.5858, 91.2978,  
67.1634


 4.0087, 9.2878,  
4.0573


 81.8866, 117.8637,  
89.7047

 1.7070, 4.9294,  
1.6568

 106.2200,  
149.1398, 116.7975

 0.4607, 2.2059,  
0.3309

 134.9516,  
185.5103, 148.8601

 0.0000, 0.7232,  
0.0000

168.4466,

 0.0000, 0.0000,

227.3597, 186.3113

0.0000

207.0703,  
275.0723, 229.5695

■ 21.2264, 36.0165,  
22.6627

■ 21.2264, 36.0165,  
22.6627

■ 20.1936, 35.5406,  
20.1063

■ 22.6474, 36.6891,  
25.4793

■ 19.4757, 35.2208,  
17.7977

■ 24.4976, 37.5767,  
28.5617

■ 19.3642, 35.1716,  
17.4201

■ 26.8158, 38.6998,  
31.9185

■ 29.6352, 40.0757,  
35.5570

■ 32.9859, 41.7196,  
39.4842

■ 36.8958, 43.6458,  
43.7067

■ 41.3904, 45.8674,  
48.2310

■ 46.4939, 48.3967,  
53.0632

■ 52.2290, 51.2452,  
58.2095

# Harmonies

## Analogous

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



25.4473, 36.0165, 11.8603



21.2264, 36.0165, 22.6627



20.2211, 36.0165, 44.0378

# Triad

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



21.2264, 36.0165, 22.6627



35.8773, 36.0165, 108.1565



49.5916, 36.0165, 17.5349

# Complementary

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



21.2264, 36.0165, 22.6627



23.1809, 12.7701, 15.1540

# 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.



53.5648, 36.0165, 34.7594



21.2264, 36.0165, 22.6627



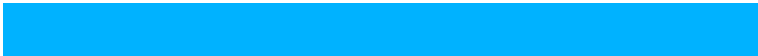
44.8378, 36.0165, 92.0027

# Square

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



21.2264, 36.0165, 22.6627



27.8185, 36.0165, 100.4347



51.6934, 36.0165, 62.3354



41.5638, 36.0165, 9.8914



# Rectangle

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



21.2264, 36.0165, 22.6627



21.3325, 36.0165, 63.5614



51.6934, 36.0165, 62.3354



51.5020, 36.0165, 22.0479

# Sweetspot

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



21.2273, 36.0179, 22.6635



63.1194, 77.2620, 75.2370



23.6120, 37.5740, 8.0157



13.0738, 16.3935, 15.6348



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.



21.2273, 36.0179, 22.6635



35.6225, 63.9855, 33.3441



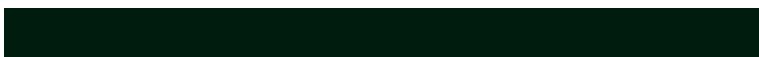
25.6881, 36.2338, 50.9892



9.0857, 10.1382, 10.6085



13.3812, 24.2534, 12.1952



0.5027, 0.8674, 0.5928



# Inverse Universe

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



23.1809, 12.7701, 15.1540



39.3386, 20.1344, 19.3347



21.0819, 12.2057, 3.2525



9.1738, 9.0799, 10.2626



14.8053, 7.4959, 6.8618

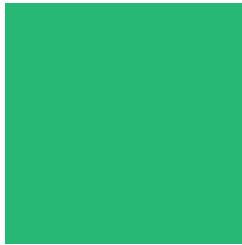


0.5532, 0.2768, 0.4068



# Previews

## White Background



This preview shows how the XYZ color 21.2264, 36.0165, 22.6627 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

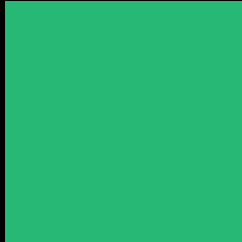
Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail



# Black Background



This preview shows how the XYZ color 21.2264, 36.0165, 22.6627 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 21.2264, 36.0165, 22.6627**

## **Background**



This preview shows how black text looks on a background with the XYZ color 21.2264, 36.0165, 22.6627.



This preview shows how white text looks on a background with the XYZ color 21.2264, 36.0165,



# 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

21.2264, 36.0165, 22.6627

### Protanopia

32.6802, 35.2018, 18.9821

### Deuteranopia

35.9327, 35.2578, 23.9804



## Tritanopia

27.3393, 35.7899, 53.6113

# Trichromacy



## Original Color

21.2264, 36.0165, 22.6627



## Protanomaly

25.5147, 33.8836, 20.2344



## Deuteranomaly

26.7378, 33.3591, 23.1189



## Tritanomaly

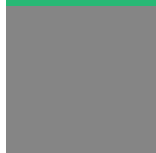
24.5179, 35.5093, 40.2121

# Monochromacy



## Original Color

21.2264, 36.0165, 22.6627



## Achromatopsia

22.2940, 23.4551, 25.5426



## Achromatomaly

20.2046, 26.6414, 24.1561

# CSS Examples

## Text

The CSS property to change the color of the text to XYZ 21.2264, 36.0165, 22.6627 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(40, 184, 117)` looks like.

```
.text, #text, p{  
  color:rgb(40, 184, 117)  
}
```

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(40, 184, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(40, 184, 117) }
```

## Border

The CSS property to change the border of an element to XYZ 21.2264, 36.0165, 22.6627 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(40, 184, 117) }
```



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

```
.border{ border-color:rgb(40, 184, 117) }
```

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

Here you see how a box with a 4 pixel `rgb(40, 184, 117)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(40, 184, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(40, 184, 117);  
box-shadow:4px 4px 4px 4px rgb(40, 184,  
117) }
```

# Background

The CSS property to change the background color of an element to XYZ 21.2264, 36.0165, 22.6627 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(40, 184, 117) }
```

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

```
.background{ background-color: rgb(40, 184,  
117) }
```

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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