

Converting Colors

XYZ(12.2202, 8.1064, 49.2538)

Have a look what the booklet for
XYZ(12.2202, 8.1064, 49.2538)
contains.

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Color

**XYZ(12.2157, 8.1284,
49.0692)**

Conversions

Conversions Part 1

Format	Color
Hex	2D42BD
RGB	45, 66, 189
RGB Percent	18%, 26%, 74%
CMY	0.8235, 0.7412, 0.2588
CMYK	0.76, 0.65, 0.00, 0.26
HSL	231°, 62%, 46%
HSV	231°, 76%, 74%
XYZ	12.2157, 8.1284, 49.0692
YIQ	73.7430, -51.9990, 33.8010

Conversions

Conversions Part 2

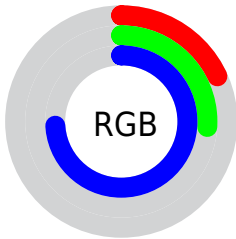
Format	Color
R_{YB}	45, 63, 189
Decimal	2966205
CIE _{Lab}	34.25, 35.74, -66.70
CIE _{LCh}	34, 75.671, 298.181
Y _{xy}	8.1284, 0.1760, 0.1171
Android (android.graphics.Color)	4281156285 (0xFF2D42BD)
YUV	73.7430, 56.8217, -25.2076
Hunter-Lab	28.5103, 26.5880, -82.0869

Details

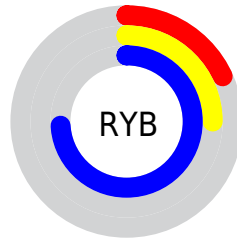
The XYZ color **12.2157, 8.1284, 49.0692** is a dark color, and the websafe version is hex **333399**. A complement of this color would be **35.4652, 39.0184, 8.1458**, and the grayscale version is **6.3735, 6.7054, 7.3022**.

A 20% lighter version of the original color is **29.4619, 22.1992, 89.9208**, and **4.6297, 2.3745, 22.7686** is the 20% darker color. If you saturate the color by 10%, you get **10.7485, 6.1639, 48.7676**, and if you desaturate by 10%, it is **14.3221, 10.8175, 49.4775**.

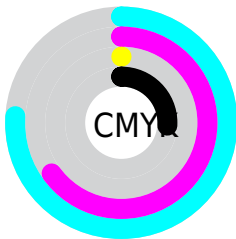
Distribution



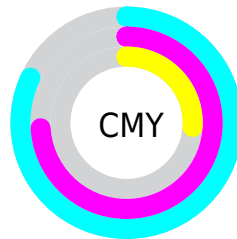
- Red (18%)
- Green (26%)
- Blue (74%)



- Red (18%)
- Yellow (25%)
- Blue (74%)



- Cyan (76%)
- Magenta (65%)
- Yellow (0%)
- Black (26%)



- Cyan (82%)
- Magenta (74%)
- Yellow (26%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2157, 8.1284, 49.0692 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 12.2157, 8.1284, 49.0692 by changing the saturation by 10% instead.

■ 12.2157, 8.1284,
49.0692

■ 12.2157, 8.1284,
49.0692

■ 199.5690,
176.7357, 399.6450

■ 6.9640, 4.1772,
34.3084

■ 29.5008, 22.2098,
90.1763

■ 3.4857, 1.7732,
22.8513

■ 42.2649, 33.1088,
117.3596

■ 1.4155, 0.4704,
14.2795

■ 58.2639, 47.0925,
149.5209

■ 0.2672, 0.0000,
8.1744

■ 77.8631, 64.5453,
187.0786

■ 0.0000, 0.0000,
4.1173

■ 101.4278, 85.8516,
230.4513

■ 0.0000, 0.0000,
1.6899

■ 129.3235,

■ 0.0000, 0.0000,

111.3959, 280.0576

0.3538

161.9154,
141.5624, 336.3160

■ 0.0000, 0.0000,
0.0000

■ 12.2157, 8.1284,
49.0692

■ 12.2157, 8.1284,
49.0692

■ 10.7485, 6.1639,
48.7676

■ 14.3221, 10.8175,
49.4775

■ 9.8393, 4.8481,
48.5615

■ 17.1308, 14.2942,
50.0005

■ 9.5900, 4.4834,
48.5043

■ 20.6986, 18.6149,
50.6464

■ 25.0761, 23.8310,
51.4225

■ 30.3094, 29.9892,
52.3353

■ 36.4411, 37.1333,
53.3911

■ 43.5110, 45.3042,
54.5956

■ 51.5564, 54.5404,
55.9544

■ 60.6127, 64.8787,
57.4725

Harmonies

Analogous

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



7.4717, 8.1284, 58.1536



12.2157, 8.1284, 49.0692



16.8513, 8.1284, 27.5723

Triad

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



12.2157, 8.1284, 49.0692



12.8298, 8.1284, 0.0000



2.1296, 8.1284, 8.1347

Complementary

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



12.2157, 8.1284, 49.0692



35.4652, 39.0184, 8.1458

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.



2.6856, 8.1284, 1.3897



12.2157, 8.1284, 49.0692



7.9856, 8.1284, 0.0000

Square

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



12.2157, 8.1284, 49.0692



17.2872, 8.1284, 1.7947



4.4979, 8.1284, 0.0000



2.5606, 8.1284, 24.9416

Rectangle

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



12.2157, 8.1284, 49.0692



18.6711, 8.1284, 14.5006



4.4979, 8.1284, 0.0000



2.2013, 8.1284, 4.8997

Sweetspot

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



12.2162, 8.1286, 49.0694



57.2112, 57.1325, 94.2385



26.2926, 39.7584, 43.0427



11.4995, 11.3464, 20.1266



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.



12.2162, 8.1286, 49.0694



18.1252, 9.4366, 87.0924



14.8859, 8.0065, 48.9052



9.1257, 9.4438, 12.0141



6.4874, 3.0866, 32.6468



0.2905, 0.1937, 1.2909

Inverse Universe

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



22.9085, 13.0898, 6.4732



38.5517, 20.2227, 5.4237



29.2530, 42.0399, 9.0565



9.5853, 9.5584, 10.2053



14.2753, 7.3413, 1.4776



0.5775, 0.2949, 0.1546

Previews

White Background



This preview shows how the XYZ color 12.2157, 8.1284, 49.0692 looks on a white 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

Black Background



This preview shows how the XYZ color 12.2157, 8.1284, 49.0692 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

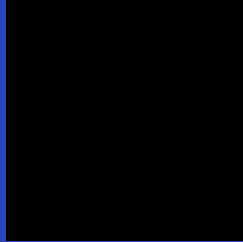
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

XYZ 12.2157, 8.1284, 49.0692

Background



This preview shows how black text looks on a background with the XYZ color 12.2157, 8.1284, 49.0692.



This preview shows how white text looks on a background with the XYZ color 12.2157, 8.1284,

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

12.2157, 8.1284, 49.0692

Protanopia

9.2647, 7.9521, 35.6969

Deuteranopia

7.7509, 7.9280, 25.9327



Tritanopia

5.6379, 7.9710, 12.0679

Trichromacy



Original Color

12.2157, 8.1284, 49.0692

Protanomaly

10.0426, 7.8538, 40.0164

Deuteranomaly

8.9697, 7.7477, 33.3704

Tritanomaly

7.1186, 7.5800, 21.8568

Monochromacy



Original Color

12.2157, 8.1284, 49.0692

Achromatopsia

6.5089, 6.8478, 7.4573

Achromatomaly

7.4555, 6.8242, 17.4472

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2157, 8.1284, 49.0692 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(45, 66, 189)` looks like.

```
.text, #text, p{  
    color:rgb(45, 66, 189)  
}
```

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(45, 66, 189) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 66, 189) }
```

Border

The CSS property to change the border of an element to XYZ 12.2157, 8.1284, 49.0692 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(45, 66, 189) }
```


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

```
.border{ border-color:rgb(45, 66, 189) }
```

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

Here you see how a box with a 4 pixel rgb(45, 66, 189) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 66, 189); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 66, 189);  
box-shadow:4px 4px 4px 4px rgb(45, 66,  
189) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2157, 8.1284, 49.0692 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 66, 189) }
```

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

```
.background{ background-color: rgb(45, 66,  
189) }
```

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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