

Converting Colors

XYZ(12.2127, 18.4187, 14.5695)

Have a look what the booklet for
XYZ(12.2127, 18.4187, 14.5695)
contains.

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Color

**XYZ(12.2230, 18.4977,
14.4815)**

Conversions

Conversions Part 1

Format	Color
Hex	388562
RGB	56, 133, 98
RGB Percent	22%, 52%, 38%
CMY	0.7804, 0.4784, 0.6157
CMYK	0.58, 0.00, 0.26, 0.48
HSL	153°, 41%, 37%
HSV	153°, 58%, 52%
XYZ	12.2230, 18.4977, 14.4815
YIQ	105.9870, -34.6570, -27.2090

Conversions

Conversions Part 2

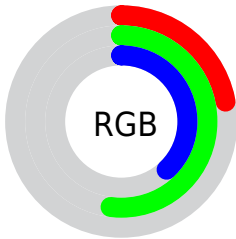
Format	Color
RYB	56, 106, 133
Decimal	3704162
CIELab	50.09, -32.51, 11.87
CIElCh	50, 34.610, 159.949
Yxy	18.4977, 0.2704, 0.4092
Android (android.graphics.Color)	4281894242 (0xFF388562)
YUV	105.9870, -3.9376, -43.8386
Hunter-Lab	43.0090, -24.5366, 10.1428

Details

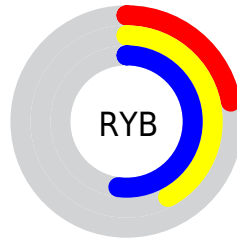
The XYZ color **12.2230, 18.4977, 14.4815** is a dark color, and the websafe version is hex **339966**. A complement of this color would be **12.9759, 8.5705, 10.8684**, and the grayscale version is **13.7136, 14.4278, 15.7119**.

A 20% lighter version of the original color is **29.6255, 41.0256, 34.7911**, and **3.6908, 6.4255, 4.1777** is the 20% darker color. If you saturate the color by 10%, you get **11.3015, 18.0549, 13.0044**, and if you desaturate by 10%, it is **13.3646, 19.0525, 16.0823**.

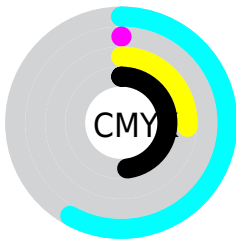
Distribution



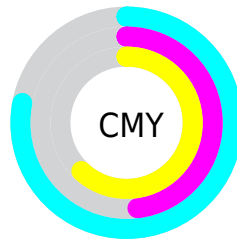
- Red (22%)
- Green (52%)
- Blue (38%)



- Red (22%)
- Yellow (42%)
- Blue (52%)



- Cyan (58%)
- Magenta (0%)
- Yellow (26%)
- Black (48%)



- Cyan (78%)
- Magenta (48%)
- Yellow (62%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2230, 18.4977, 14.4815 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 12.2230, 18.4977, 14.4815 by changing the saturation by 10% instead.

■ 12.2230, 18.4977,
14.4815

■ 12.2230, 18.4977,
14.4815

199.6160,
243.6616, 231.7377

■ 6.9690, 11.3079,
8.3138

■ 29.5140, 40.8836,
34.6703

■ 3.4889, 6.2743,
4.2057

■ 42.2816, 56.8485,
49.5285

■ 1.4173, 3.0126,
1.7389

■ 58.2846, 76.5071,
68.1205

■ 0.2685, 1.1383,
0.3872

■ 77.8882, 100.2440,
90.8649

■ 0.0000, 0.0104,
0.0000

■ 101.4578,
128.4435, 118.1803

■ 0.0000, 0.0000,
0.0000

■ 129.3587,

161.4900, 150.4852

161.9563,
199.7679, 188.1982

■ 12.2230, 18.4977,
14.4815

■ 12.2230, 18.4977,
14.4815

■ 11.3015, 18.0549,
13.0044

■ 13.3646, 19.0525,
16.0823

■ 10.5821, 17.7133,
11.6464

■ 14.7396, 19.7245,
17.8087

■ 10.0463, 17.4640,
10.4046

■ 16.3619, 20.5214,
19.6639

■ 9.6529, 17.2858,
9.2743

■ 18.2437, 21.4495,
21.6508

■ 9.5755, 17.2508,
9.0498

■ 20.3966, 22.5147,
23.7722

■ 22.8315, 23.7224,
26.0306

■ 25.5584, 25.0780,
28.4287

■ 28.5870, 26.5862,
30.9688

■ 31.9267, 28.2519,
33.6535

Harmonies

Analogous

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



13.7797, 18.4977, 9.0939



12.2230, 18.4977, 14.4815



11.9953, 18.4977, 23.4807

Triad

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



12.2230, 18.4977, 14.4815



18.7120, 18.4977, 44.1623



22.9654, 18.4977, 10.5060

Complementary

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



12.2230, 18.4977, 14.4815



12.9759, 8.5705, 10.8684

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.



24.6782, 18.4977, 17.1337



12.2230, 18.4977, 14.4815



22.0252, 18.4977, 37.7389

Square

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



12.2230, 18.4977, 14.4815



15.4748, 18.4977, 42.7658



24.3139, 18.4977, 27.1105



19.8712, 18.4977, 7.3526

Rectangle

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



12.2230, 18.4977, 14.4815



12.5934, 18.4977, 30.7616



24.3139, 18.4977, 27.1105



23.7385, 18.4977, 12.2983

Sweetspot

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



12.2235, 18.4984, 14.4819



32.8536, 38.5011, 38.9579



13.5089, 19.3333, 6.7612



7.2685, 8.6082, 8.6409



64.0503, 67.3860, 73.3833



8.9945, 9.4630, 10.3052

Same Dimension

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



12.2235, 18.4984, 14.4819



19.8592, 32.1505, 22.6164



13.9055, 18.6158, 25.0516



4.7146, 5.2441, 5.5084



9.1246, 16.4327, 8.6413



0.0353, 0.0584, 0.0494

Inverse Universe

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



12.9759, 8.5705, 10.8684



21.3441, 12.6311, 15.5393



11.9289, 8.3559, 4.7256



4.7540, 4.7213, 5.3171



10.0060, 5.0667, 4.6038



0.0383, 0.0190, 0.0349

Previews

White Background



This preview shows how the XYZ color 12.2230, 18.4977, 14.4815 looks on a white background.

Color Contrast Check

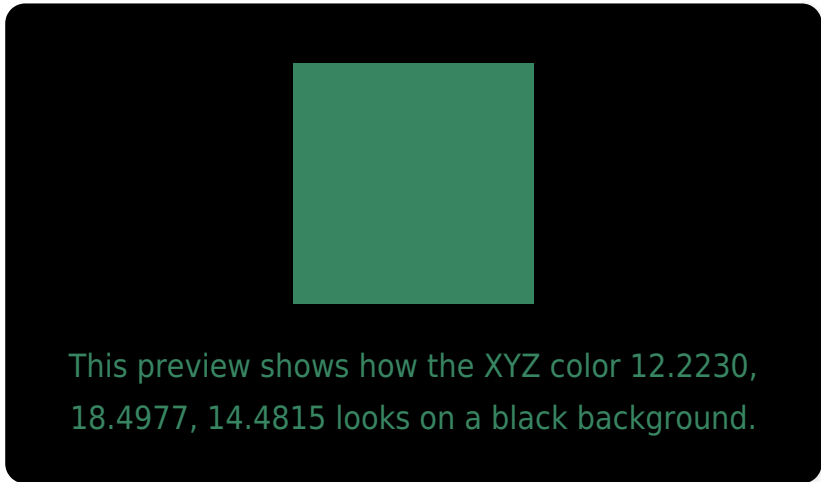
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

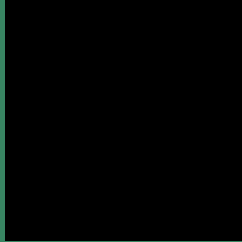
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

XYZ 12.2230, 18.4977, 14.4815

Background



This preview shows how black text looks on a background with the XYZ color 12.2230, 18.4977, 14.4815.



This preview shows how white text looks on a background with the XYZ color 12.2230, 18.4977,

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

12.2230, 18.4977, 14.4815

Protanopia

17.1192, 18.2242, 12.5129

Deuteranopia

18.5689, 18.2282, 15.1101



Tritanopia

14.7609, 18.5385, 26.8451

Trichromacy



Original Color

12.2230, 18.4977, 14.4815

Protanomaly

14.4702, 17.7408, 13.2513

Deuteranomaly

15.2497, 17.7401, 14.9324

Tritanomaly

13.6721, 18.4853, 21.5863

Monochromacy



Original Color

12.2230, 18.4977, 14.4815

Achromatopsia

13.6994, 14.4128, 15.6956

Achromatomaly

12.7181, 15.5448, 15.1621

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2230, 18.4977, 14.4815 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(56, 133, 98)` looks like.

```
.text, #text, p{  
    color:rgb(56, 133, 98)  
}
```

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(56, 133, 98) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 133, 98) }
```

Border

The CSS property to change the border of an element to XYZ 12.2230, 18.4977, 14.4815 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(56, 133, 98) }
```


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

```
.border{ border-color:rgb(56, 133, 98) }
```

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

Here you see how a box with a 4 pixel rgb(56, 133, 98) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 133, 98); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 133, 98);  
box-shadow:4px 4px 4px 4px rgb(56, 133,  
98) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2230, 18.4977, 14.4815 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 133, 98) }
```

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

```
.background{ background-color: rgb(56, 133,  
98) }
```

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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