

Converting Colors

XYZ(12.2387, 13.8183, 23.1588)

Have a look what the booklet for
XYZ(12.2387, 13.8183, 23.1588)
contains.

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Color

**XYZ(12.2159, 13.7927,
23.1375)**

Conversions

Conversions Part 1

Format	Color
Hex	4A6C82
RGB	74, 108, 130
RGB Percent	29%, 42%, 51%
CMY	0.7098, 0.5765, 0.4902
CMYK	0.43, 0.17, 0.00, 0.49
HSL	204°, 27%, 40%
HSV	204°, 43%, 51%
XYZ	12.2159, 13.7927, 23.1375
YIQ	100.3420, -27.3260, -0.3660

Conversions

Conversions Part 2

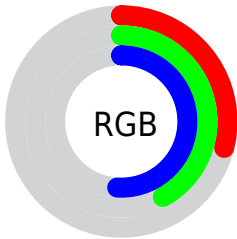
Format	Color
R_{YB}	74, 95, 130
Decimal	4877442
CIE _{Lab}	43.93, -6.01, -16.01
CIE _{LCh}	44, 17.104, 249.432
Yxy	13.7927, 0.2486, 0.2806
Android (android.graphics.Color)	4283067522 (0xFF4A6C82)
YUV	100.3420, 14.6214, -23.1019
Hunter-Lab	37.1385, -6.2788, -10.9410

Details

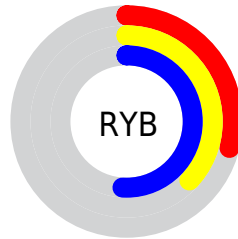
The XYZ color **12.2159, 13.7927, 23.1375** is a dark color, and the websafe version is hex **336666**. A complement of this color would be **14.6252, 13.6064, 8.3345**, and the grayscale version is **12.1697, 12.8034, 13.9429**.

A 20% lighter version of the original color is **29.4028, 32.5751, 49.5377**, and **3.5073, 4.1137, 8.3938** is the 20% darker color. If you saturate the color by 10%, you get **10.7938, 12.2835, 22.9214**, and if you desaturate by 10%, it is **13.8774, 15.4727, 23.3745**.

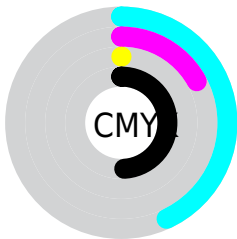
Distribution



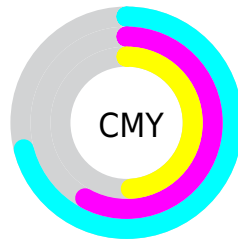
- Red (29%)
- Green (42%)
- Blue (51%)



- Red (29%)
- Yellow (37%)
- Blue (51%)



- Cyan (43%)
- Magenta (17%)
- Yellow (0%)
- Black (49%)



- Cyan (71%)
- Magenta (58%)
- Yellow (49%)

Brightness & Saturation Gradients

These gradients show how the XYZ color 12.2159, 13.7927, 23.1375 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 12.2159, 13.7927, 23.1375 by changing the saturation by 10% instead.

■ 12.2159, 13.7927,
23.1375

■ 12.2159, 13.7927,
23.1375

■ 199.5703,
215.9374, 281.5752

■ 6.9641, 7.9766,
14.4888

■ 29.5012, 32.7208,
49.5451

■ 3.4858, 4.0800,
8.3188

■ 42.2654, 46.6015,
68.1410

■ 1.4156, 1.7184,
4.2089

■ 58.2645, 63.9393,
90.8898

■ 0.2673, 0.4355,
1.7406

■ 77.8638, 85.1185,
118.2100

■ 0.0000, 0.0000,
0.3884

■ 101.4286,
110.5235, 150.5201

■ 0.0000, 0.0000,
0.0000

129.3244,

140.5387, 188.2386

161.9165,
175.5486, 231.7841

■ 12.2159, 13.7927,
23.1375

■ 12.2159, 13.7927,
23.1375

■ 10.7938, 12.2835,
22.9214

■ 13.8774, 15.4727,
23.3745

■ 9.5962, 10.9359,
22.7244

■ 15.7891, 17.3290,
23.6320

■ 8.6089, 9.7419,
22.5460

■ 17.9629, 19.3689,
23.9112

■ 7.8151, 8.6920,
22.3852

■ 20.4094, 21.5984,
24.2126

■ 7.1946, 7.7750,
22.2409

■ 23.1386, 24.0235,
24.5368

■ 6.8202, 7.1936,
22.1484

■ 26.1600, 26.6499,
24.8845

■ 29.4827, 29.4827,
25.2562

■ 33.1153, 32.5273,
25.6524

■ 37.0660, 35.7884,
26.0736

Harmonies

Analogous

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



11.1995, 13.7927, 20.2698



12.2159, 13.7927, 23.1375



13.5409, 13.7927, 23.6407

Triad

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



12.2159, 13.7927, 23.1375



15.8496, 13.7927, 13.8287



11.5243, 13.7927, 9.9632

Complementary

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



12.2159, 13.7927, 23.1375



14.6252, 13.6064, 8.3345

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.



12.6874, 13.7927, 8.7974



12.2159, 13.7927, 23.1375



15.2253, 13.7927, 10.7619

Square

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



12.2159, 13.7927, 23.1375



15.7016, 13.7927, 17.7930



14.0457, 13.7927, 9.0622



10.8197, 13.7927, 12.5475

Rectangle

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



12.2159, 13.7927, 23.1375



14.4311, 13.7927, 22.4938



14.0457, 13.7927, 9.0622



11.8712, 13.7927, 9.4145

Sweetspot

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



12.2163, 13.7932, 23.1378



31.5446, 34.0274, 42.0979



12.8939, 18.2562, 13.7827



6.9676, 7.5421, 9.5069



62.3462, 65.5931, 71.4309



8.4577, 8.8982, 9.6901

Same Dimension

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



12.2163, 13.7932, 23.1378



18.9847, 21.6061, 40.3623



9.7616, 8.8838, 22.3196



4.3090, 4.6120, 5.4764



6.5462, 6.9109, 21.2389



0.0000, 0.0000, 0.0000

Inverse Universe

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



14.3619, 10.7266, 15.5014



23.4363, 15.9296, 24.3643



17.5833, 19.5225, 9.3206



4.4288, 4.3847, 5.0625



10.1812, 5.0922, 7.5439



0.0000, 0.0000, 0.0000

Previews

White Background



This preview shows how the XYZ color 12.2159, 13.7927, 23.1375 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 × Fail

Black Background



This preview shows how the XYZ color 12.2159, 13.7927, 23.1375 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

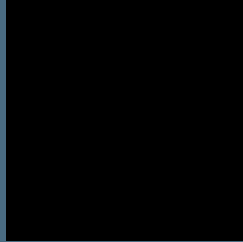
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

XYZ 12.2159, 13.7927, 23.1375

Background



This preview shows how black text looks on a background with the XYZ color 12.2159, 13.7927, 23.1375.



This preview shows how white text looks on a background with the XYZ color 12.2159, 13.7927,

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

12.2159, 13.7927, 23.1375

Protanopia

13.6531, 13.8035, 21.6834

Deuteranopia

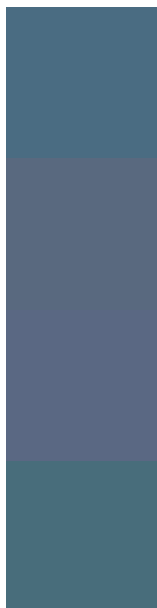
13.9937, 13.7941, 23.3977



Tritanopia

11.5042, 13.8234, 19.5146

Trichromacy



Original Color

12.2159, 13.7927, 23.1375

Protanomaly

13.0022, 13.7593, 22.0492

Deuteranomaly

13.2635, 13.7130, 23.4205

Tritanomaly

11.7163, 13.7451, 20.7744

Monochromacy



Original Color

12.2159, 13.7927, 23.1375

Achromatopsia

12.1130, 12.7438, 13.8780

Achromatomaly

12.0339, 13.0723, 16.9279

CSS Examples

Text

The CSS property to change the color of the text to XYZ 12.2159, 13.7927, 23.1375 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(74, 108, 130)` looks like.

```
.text, #text, p{  
    color:rgb(74, 108, 130)  
}
```

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(74, 108, 130) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 108, 130) }
```

Border

The CSS property to change the border of an element to XYZ 12.2159, 13.7927, 23.1375 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(74, 108, 130) }
```


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

```
.border{ border-color:rgb(74, 108, 130) }
```

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

Here you see how a box with a 4 pixel `rgb(74, 108, 130)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 108, 130); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 108, 130);  
box-shadow:4px 4px 4px 4px rgb(74, 108,  
130) }
```

Background

The CSS property to change the background color of an element to XYZ 12.2159, 13.7927, 23.1375 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 108, 130) }
```

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

```
.background{ background-color: rgb(74, 108,  
130) }
```

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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