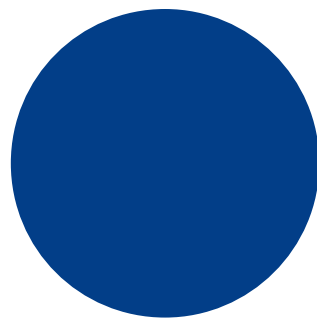
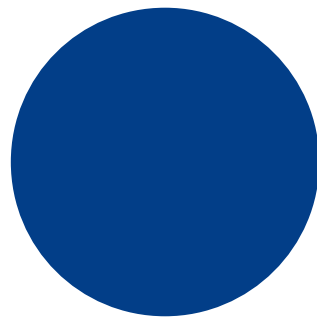


**::: Bones**

**Fame**

**Manual**

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# Fame - color reader

Life is colorful! - Congratulations on purchasing Fame, your color reader for Milestone. Fame gives you information about colors in your everyday life, which will help you to identify various things like your clothes. Furthermore, Fame features color comparison, a light finder and is able to recognize patterns.

## Introduction to the world of colors

Identifying colors is actually not a problem. The idea of color measurement is to represent the visual impression by physical parameters, for example to imitate the color perception of the eye. The problem starts, if you want to name colors. There is an infinite number of colors that the human eye is able to identify. If these different colors have to be named, one has to find an agreement.

Discussions about colors with friends may lead to some surprises since colors are named quite individually. You probably hear of color designations you have never heard before. Even after detailed discussions it is still difficult to obtain an agreement on the names of some colors.

There are some standards though, so that for example graphic designers have a common basis for communication. These standards use color names like reseda green, heather violet, azure or sepia brown.

In our opinion, it is not reasonable to use color names and descriptions, which do not cause a common imagination. Therefore, Fame applies descriptive and commonly used terms to describe the colors.

Fame names black, white and the six prismatic colors: yellow, green, blue, violet, red, orange and the three combinations yellow-green, blue-green and blue-violet.

Additionally, Fame knows the 11 colors beige, khaki, olive, ochre, brown, purple, turquoise, pink, rose, charcoal grey and grey.

Fame is able to identify three different brightness levels "light", "middle" or "dark". The saturation will be determined as "bright", "strong" or "pale". Furthermore, a combination of colors or the tendency of a color can be named, e. g. "strong red, with a tendency towards orange". These combinations sum up to a total of more than 400 individual color descriptions.

Please be aware of slight differences between the color description of Fame and the impression of the human eye, since the human eye depends on the lighting conditions while Fame uses LEDs for illumination and these are constant under all circumstances. Especially fluorescent and highly reflective colors as well as metameric colors may lead to visible deviations. Metarism is a phenomenon of samples matching under one light source but are distinctly different under another.

## Plug on Fame

On the front end of Fame you can feel a round opening behind which the electronic measuring equipment is arranged. On the back side a USB plug juts out of the case. Your Milestone has its USB socket in the middle of the front end. If you now plug Fame like a top piece on your Milestone, the USB plug connects itself with the USB socket of Milestone. A correct connection of the two devices is announced with "Fame". It does not matter in which application you are when plugging Fame. If "Fame" is not announced, please make sure that Milestone is turned on by pressing "Play".

*Hint:* In case Milestone does not recognize Fame, please make sure that the software on your Milestone is at least version 3.20 or higher. Otherwise Fame can not be activated. The newest firmware is available free of charge on [www.bones.ch](http://www.bones.ch).

## Color identification

Put Fame with the front side onto the object that you want to know the color of. The opening for the measurement has to be covered by the object. For this reason hold Fame upright on the object. A short push of the central "Play" button starts the measurement cycle. This takes approximately 1 to 2 seconds. You can hear a signal, when the measurement is finished. To guarantee a proper measurement do not remove Fame from the object before you hear this signal. Subsequently, the measured color will be announced. This color value is saved internally for a possible following color comparison.

*Attention:* Please put Fame onto the desired object at first, before starting the measurement. Only if Fame is upright on the object and its opening is covered by the object, no light from outside can falsify the measurement.

## Comparison of colors

This function of Fame gives you the possibility to compare the color of objects, for example socks. So you can assort them more easily.

To compare colors, you first have to identify the first color as described above. Then point Fame to the object which color you want to compare with the one previously measured. Press the "Right arrow" button shortly instead of the "Play" button. Hold Fame to the corresponding patch for 1 to 2 seconds. This time Fame tells you, if the second measurement differs from the first one or not by saying "Colors are different" or "Colors are the same". The comparison always refers to the last color measurement that was done by pressing the "Play" button.

It does not matter, how long ago the last measurement has been done or how many times you repeat the color comparison by pressing the "Right arrow" button.

## Light finder

A further feature of Fame is the determination of brightness. The sensor determines the brightness and indicates it by a corresponding tone pitch. A high tone corresponds to "bright" and a low tone corresponds to "dark". To figure out the position or direction of a light source, push and hold the "Rec" button. As long as you hold down the "Rec" button a continuous tone will be emitted, which varies in pitch according to the lighting conditions or brightness. This way, you can find out if the light is switched-on in a room or not, or where the window is located.

*Attention:* In comparison to other functions of Fame, when using the light finder the opening is free, so there is no physical contact with light sources.

## Recognition of patterns

Another very handy application of the Fame is the recognition of structures or patterns. Put Fame on a textile and push and hold the "Left arrow" button. Move Fame slowly over the textile. If the material is plain-colored, the tone pitch will vary only slightly. If the textile is patterned, the tone pitch will vary according to the brightness of the surface.

*Attention:* For the recognition of patterns, Fame needs to be put on the desired object like for the color identification.

*Attention:* Please be aware that thin patterns may not be detected.

## Please pay attention

Please be aware that Fame is a measurement device with sensitive electronics. Protect Fame from water or high humidity that could damage its electronics. Furthermore avoid heavy impacts and other overloads on the device. All parts of the guarantee are voided by inappropriate use, mechanical overload or opening of the device.

## Shortcut overview

Function	Operation	Acoustic feedback
Color identification	"Play"	Beep sound and color announcement
Compare colors	"Play" for first measurement, "Right arrow" for second measurement	Beep sound and color comparison
Light-finder	"Rec" (push and hold)	Tone pitch
Pattern recognition	"Left arrow"	Tone pitch