

To which wavelength is guppy the most sensitive to ?

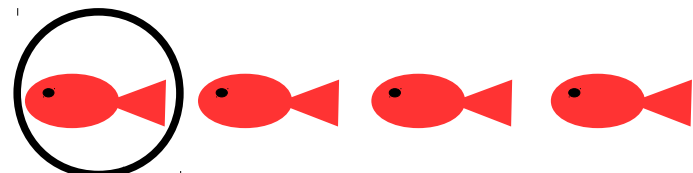
The guppy, a colorful fish.



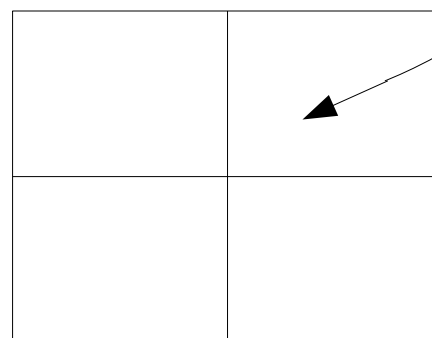
- Size : from 3 to 5 cm.
- Life expectancy : around 2 year.
- Tropical fish, decorative, easy to sustain
- Can sense light color, especially UV and IR.
- Usefull for finding food or a mating partner.

Experiment

We have 4 guppies.

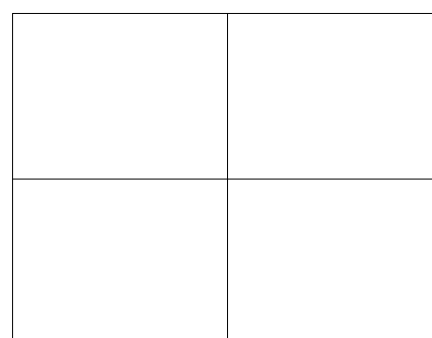


We put 1 guppy in the aquarium for experiment.



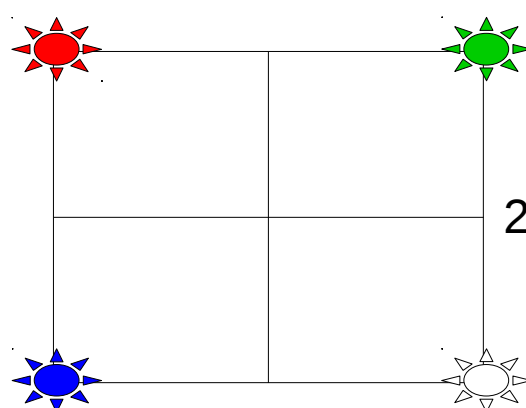
5 minutes of adaptation with light off

We measure time spent in each area.

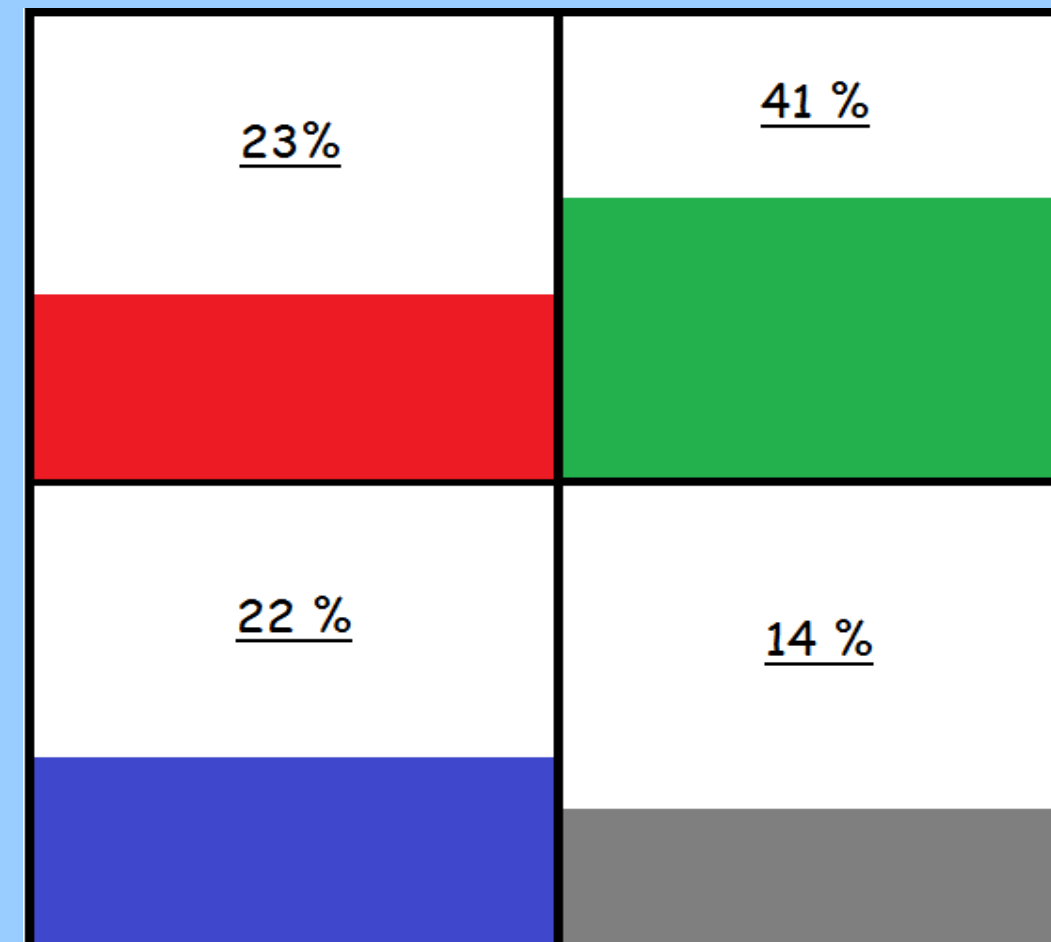


2 minutes with the light off.

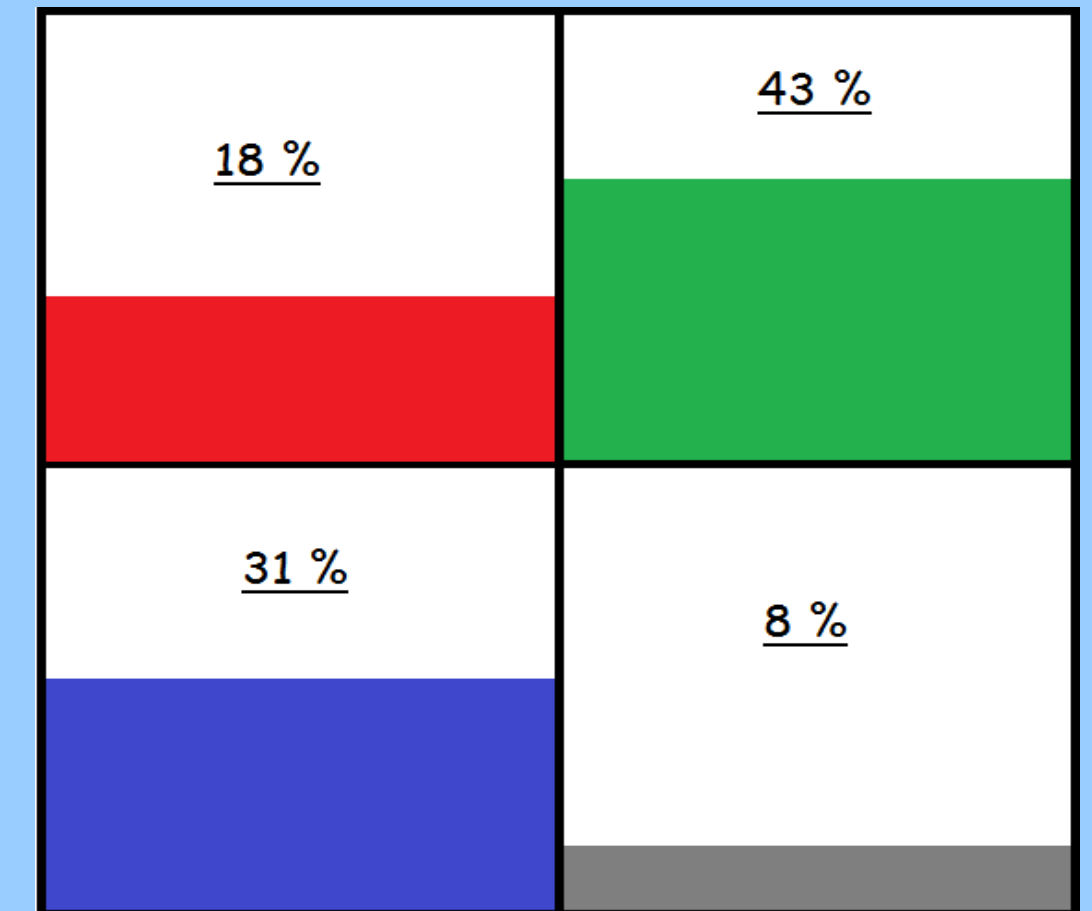
Repeat 3 times



2 minutes with the light on.



This square presents the percentage of time the fishes spent in each area on 2 minutes when the light was off.



This square presents the percentage of time the fishes spent in each area on 2 minutes when the light was on.

It seems that guppies don't have any preference.

But we cannot really conclude. Indeed, our sample size was too small, and a lot of bias interfered during the experiment : noises, vibrations, water leak, etc.

The important result of this project is what we learned and what could be improved.

Thanks to Tamara and all the Biosensors team who made this project possible.

- Follow us on twitter : <https://twitter.com/FindingGuppy>
- Discover our blogpost : <http://learningthruresearch.blogspot.fr/2017/02/guppys-favorite-color.html>
- Check our Github : <https://github.com/learningthruresearch/Biosensors2017/tree/master/Findind-Guppy>



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