

# Creativity in Robot Behaviors

Francisco J. Rodríguez Lera




[@franciscolera](https://twitter.com/franciscolera)




[fjrodl@unileon.es](mailto:fjrodl@unileon.es)



Abstract geometric shapes in the top right corner, including a grey triangle, a blue trapezoid, a purple trapezoid, and a cyan trapezoid.

**Creativity** is the ability to produce original and unusual ideas, or to make something new or imaginative

(Cambridge Dictionary 2020)

Abstract geometric shapes in the bottom left corner, including a green triangle, a cyan triangle, a purple triangle, a blue triangle, and an orange triangle.

**Creativity** is a process extended in time and characterized by originality, adaptiveness, and realization.

(Runco & Albert 1990:145-146.)

# The 2 C's

# Creativity

solutions to extremely difficult  
problems, or significant works  
of genius

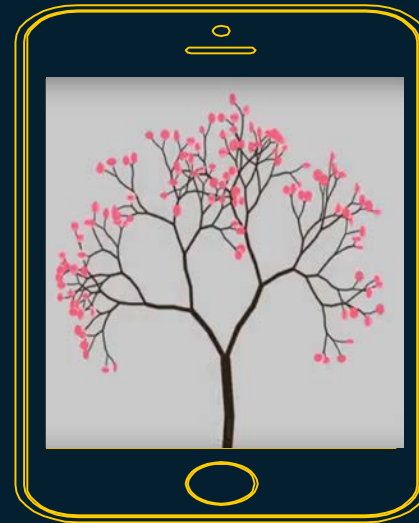
C

# Imagine that we want to make a portrait, paint a flower or write a book

patrick resset

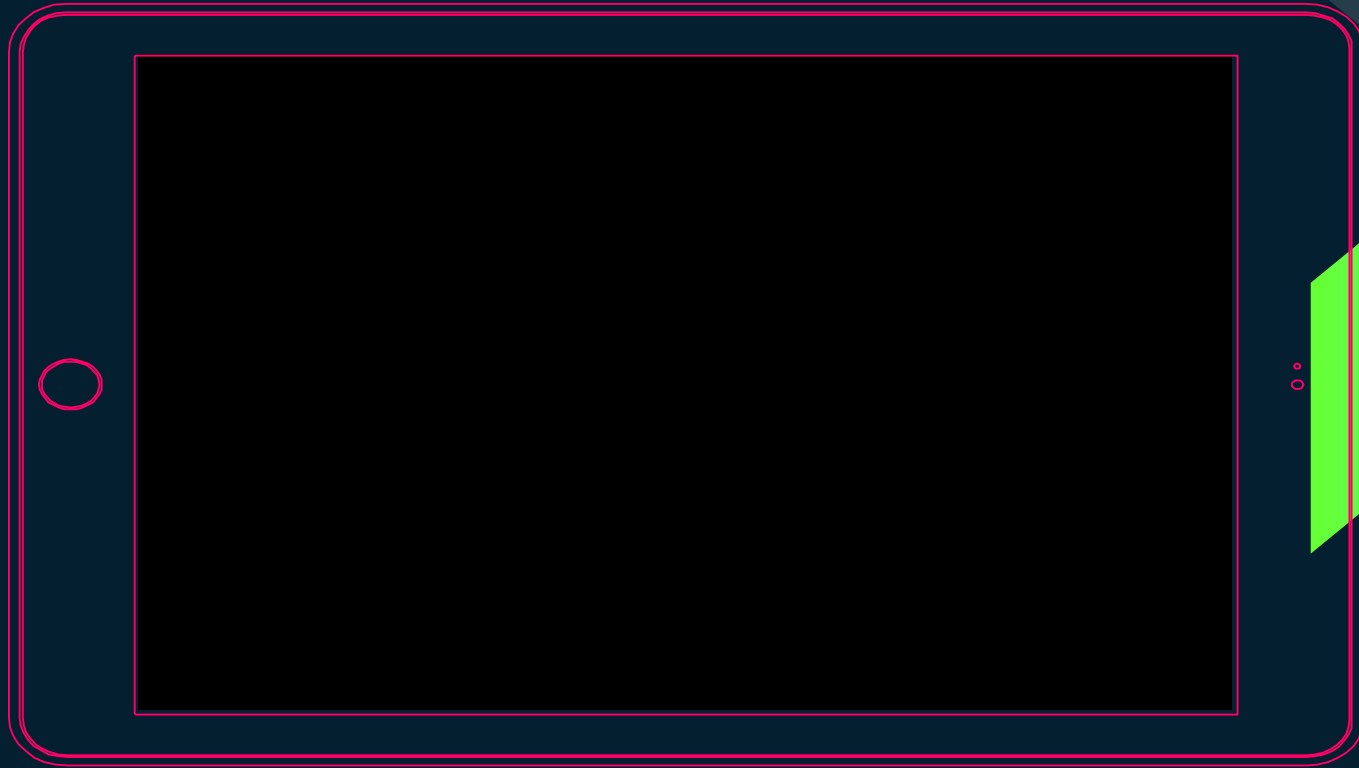


7Bot



# Scribi

<http://www.stefanopadoan.art/>



# Who has the creativity?

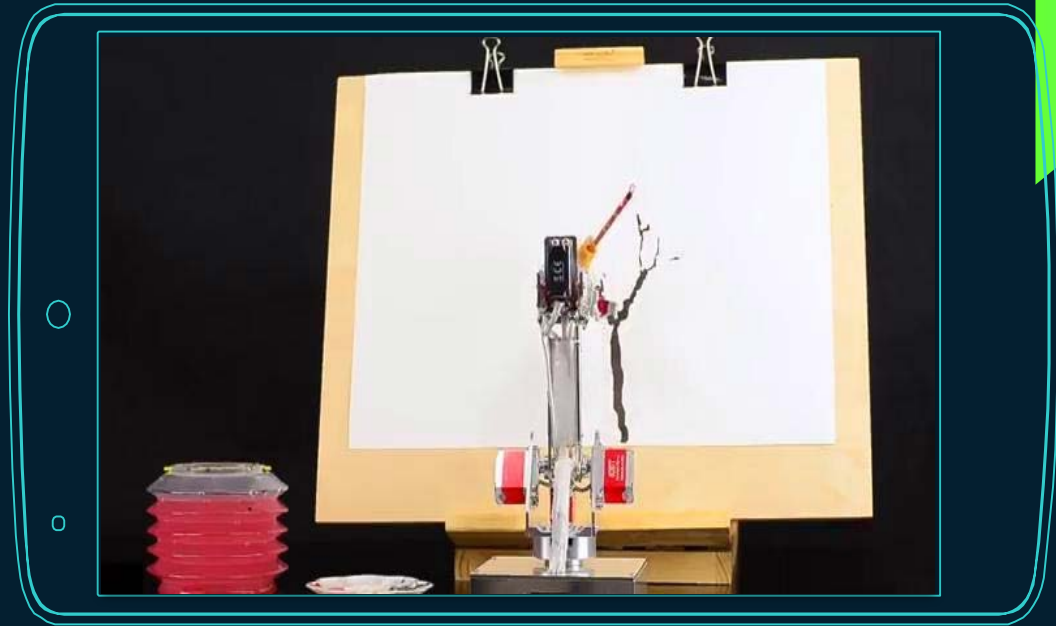
<https://patrickrasset.com/new/>



Who decided to draw in this manner?  
Why?

# Where is creativity?

- › algorithm
- › engineering
- › manufacturer
- › what to draw?
- › calibrations



# The 2 C's

## Creativity

solutions to extremely difficult  
problems, or significant works  
of genius

## Creativity

solutions to everyday activities





# Who has the creativity?

Gentlebots Team



Who decided to perform in this manner?  
Why?

The process should be easy

Cognitive  
Variables



Environmental  
Variables



Personality  
Variables?



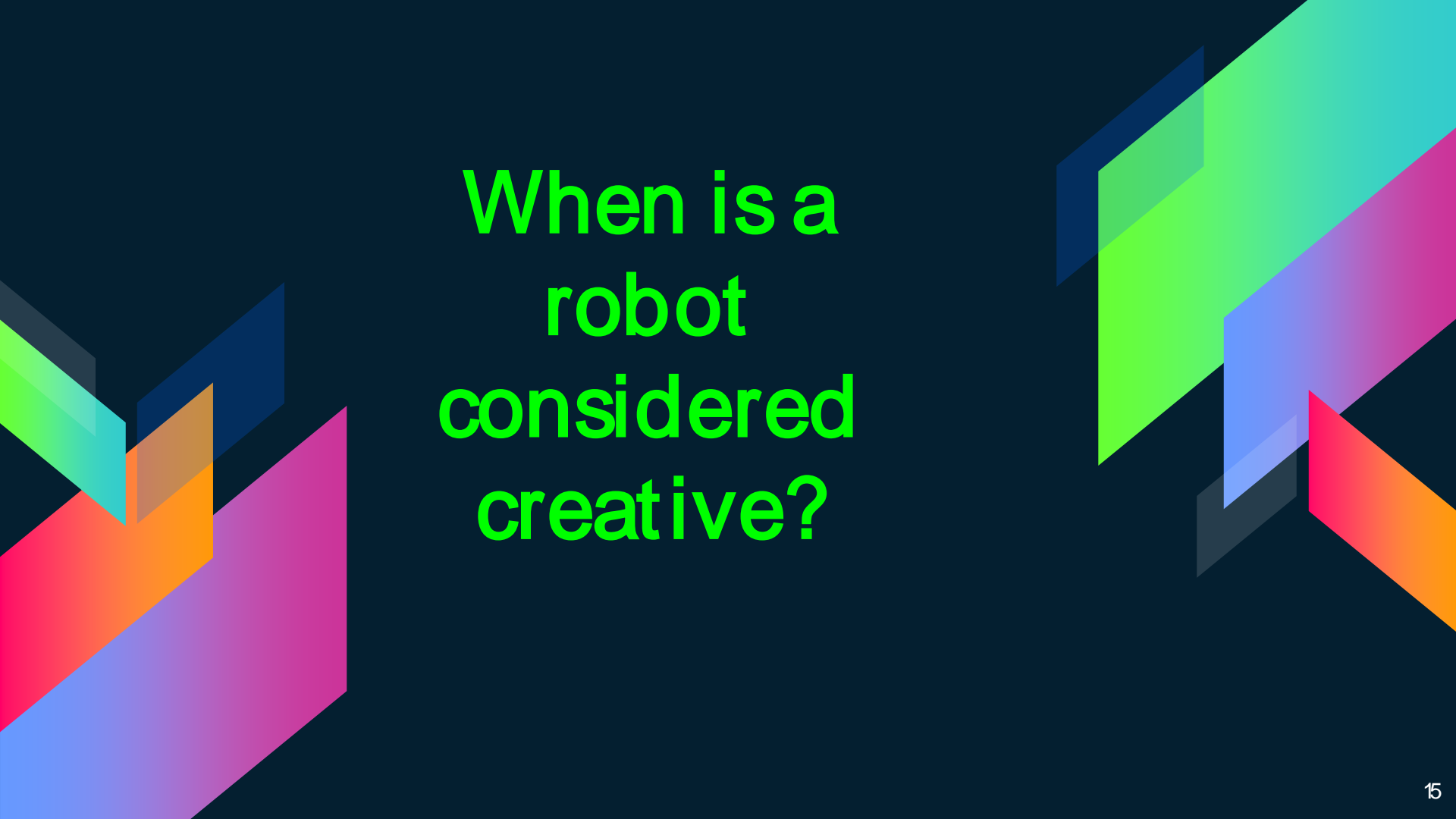
# Maslow (for humans)



# Maslow (for ROBOTS)







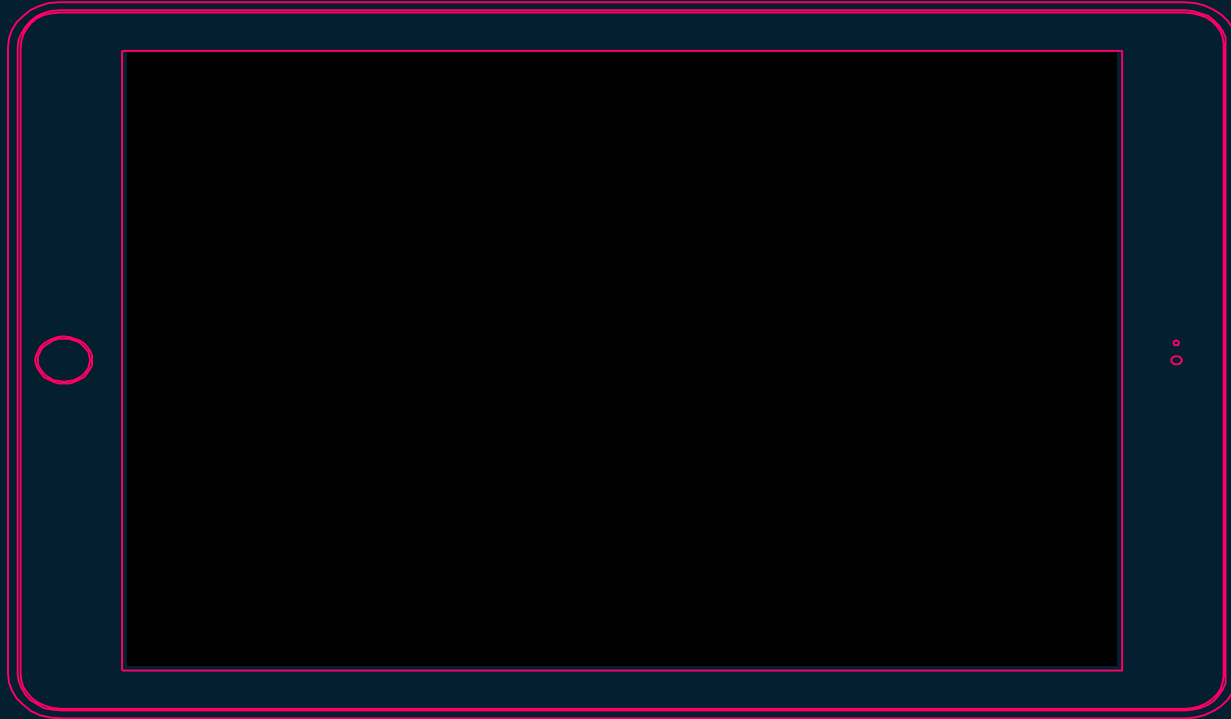
When is a  
robot  
considered  
creative?

# The creative ROBOT

can program/decide for  
himself or herself or itself  
to ask the right questions  
for solving problems



# ... and an artist?



# Creativity in Robot Behaviors

Thank you!



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