

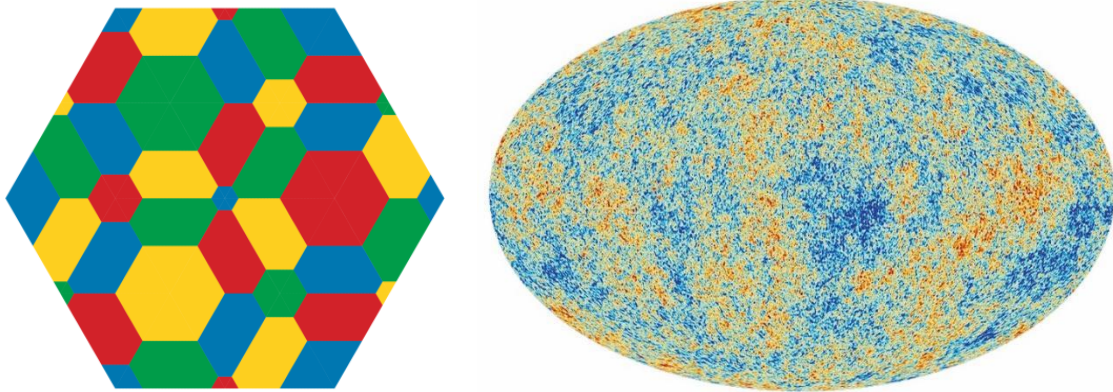
Good practices INTER_502BCD_EN

Author's name and institution:

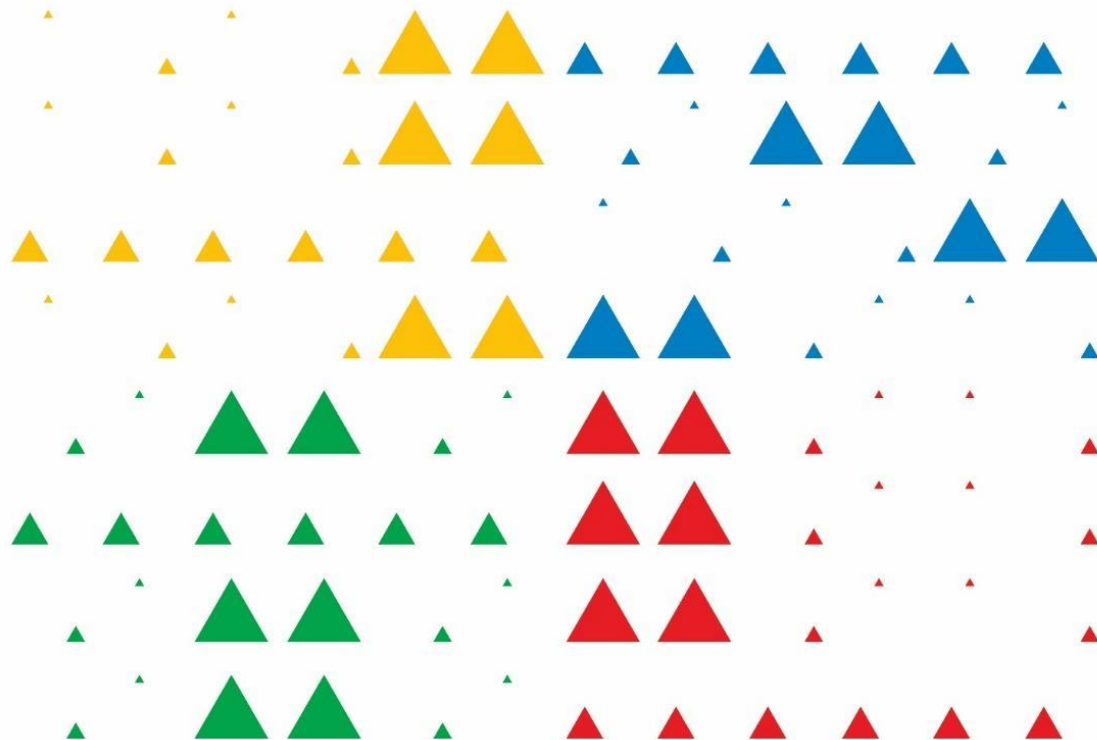
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Description of the problem / exercise: **Poly-Universe and cosmic space**

Inserting the elements of the Poly-Universe into real cosmic space. A new approach to building basic elements.



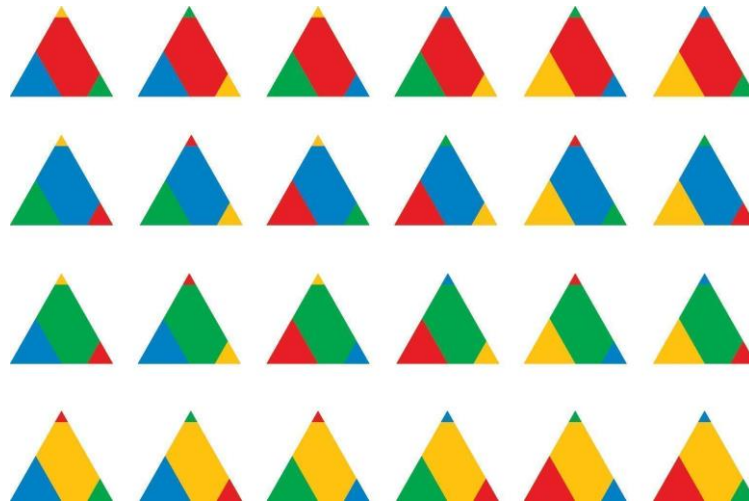
Prior to the Big Bang, the Poly-Universe triangle was condensed into a single galactic hexagon. Not only the basic elements like stars, but also their smaller parts like planets are scattered in outer space.



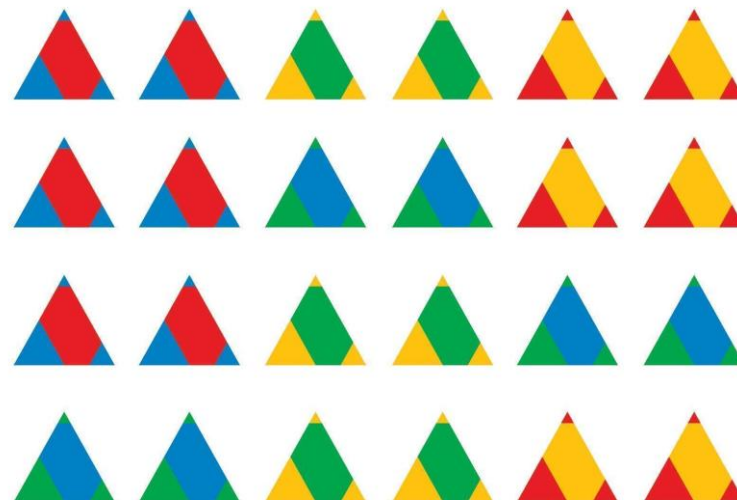
Task: First, find an own planet belonging to all of the stars in the Poly-Universe and then rebuild the galactic hexagon. Can you restore the original state or get a new galaxy? Estimate or figure out quite exactly how many different such there are in the cosmos.

Solution: The first step is to restore the triangular stars and their planets

1/ according to the classic 4 color combinations



2/ the planets are other color than the star body, but they are the same color



3/ at random

- *Why this exercise is good:* This task developed students' creativity, a complex worldview.
- *Level of teacher training:* Elementary, subject teacher, secondary school
- *School subject(s):* Creative Art, Physics, Cosmology, Informatics
- *Comments:* This task can be outsourced to all ages, but the full solution can only be expected from high school students. Can be solved with colored paper elements or Google Draw or other applications specially designed for this task... It can be done with all three basic forms.