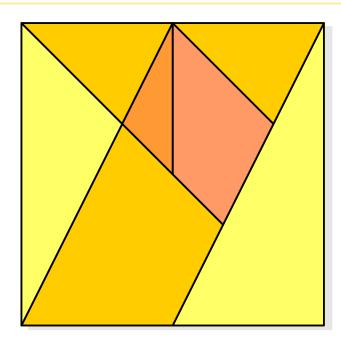
A Colorful Journey through Endless Patterns of Quick Wits

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## The Tangramion

by Serhiy Grabarchuk





The Tangramion.

This is a new assembling puzzle consisting of seven two-sided tiles which initially form a perfect square as that shown at left. Using all the seven tiles, you can solve different challenges both entertaining and cognitive. Some of them are posed below:

- 1. Form different shapes shown in page 2 with all seven tiles each time.
- 2. What's the ratio of all the seven tiles of the Tangramion?
- 3. A square can be formed in several different ways. Can you find all of them?
- 4. What's a total number of convex shapes which can be formed, using all the seven tiles each time?

Note, that tiles can be rotated and flipped over, but not overlapped.

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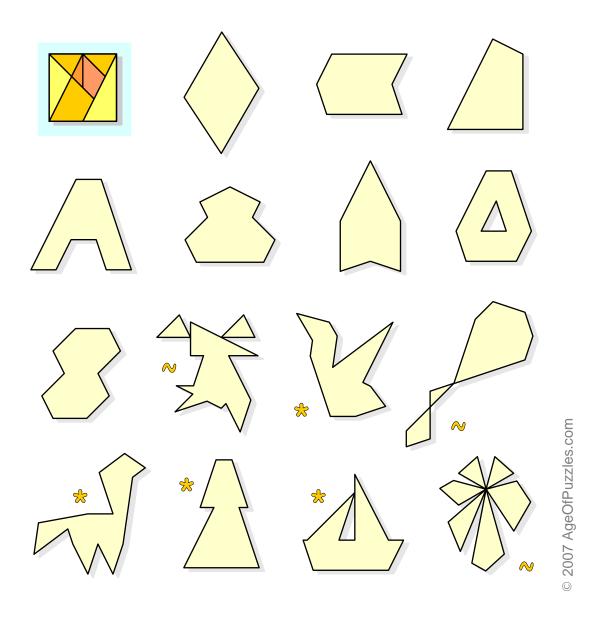


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## The Tangramion: Shapes by Serhiy Grabarchuk



Assemble these shapes, using all the seven tiles of the Tangramion.\*

\*) It is the first series of shapes; the second series will follow. Shapes marked with (~) were created by Tanya Grabarchuk. Shapes marked with (\*) were created by Helen Homa. The remaining shapes are created by myself.

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