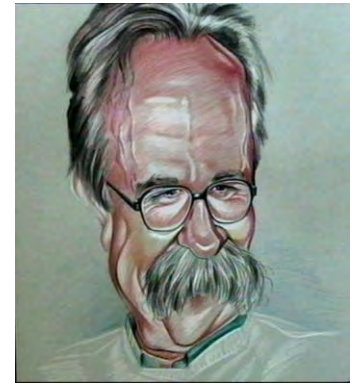
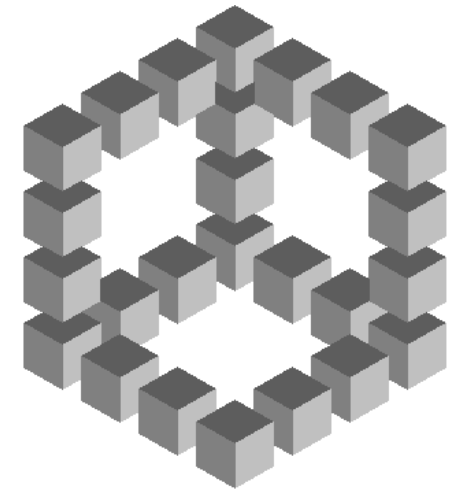
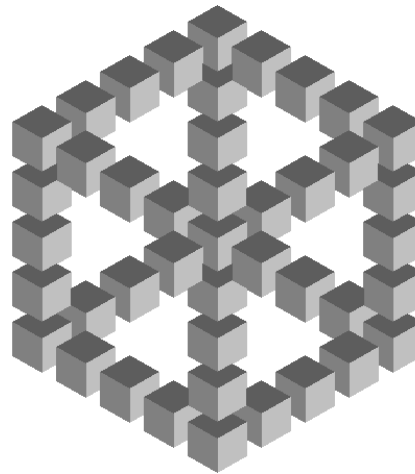
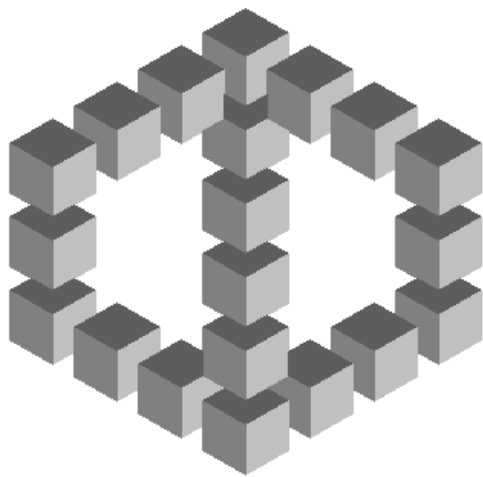


GEOMETRÍA IMPOSIBLE



Vicente Meavilla Seguí
Dpto. de Matemáticas
Área de Didáctica
Universidad de Zaragoza

ACTIVIDAD 1

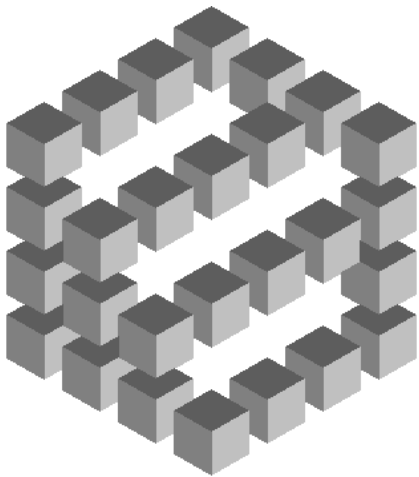
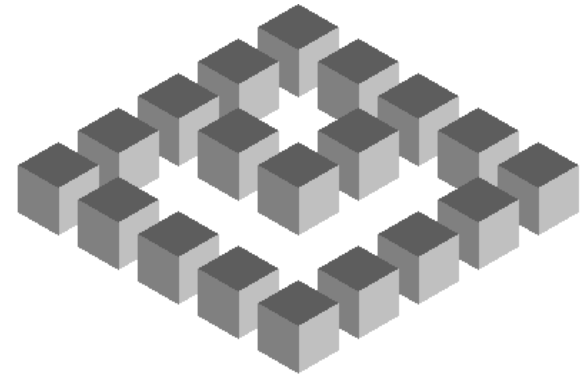
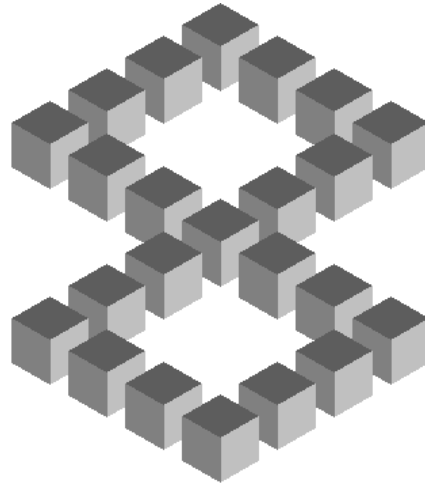
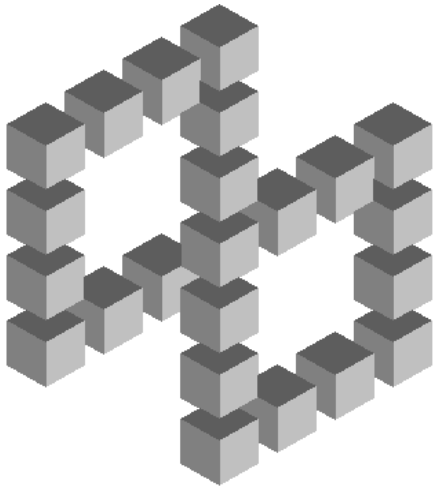


1. Utilizando cubos multilink construye (si es posible) los objetos representados en cada una de las figuras anteriores.

DEFINICIÓN 1: Las figuras que se pueden construir con cubos multilink se llaman *figuras posibles*. Aquellas que no se pueden construir con cubos multilink se llaman *figuras imposibles*.

2. ¿Cuáles de las figuras anteriores son imposibles?

ACTIVIDAD 2

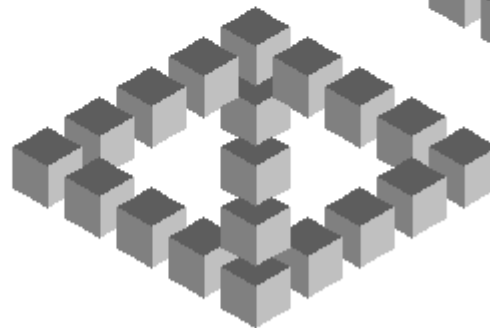
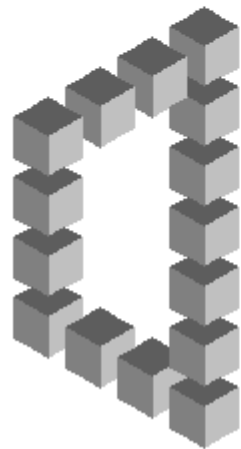
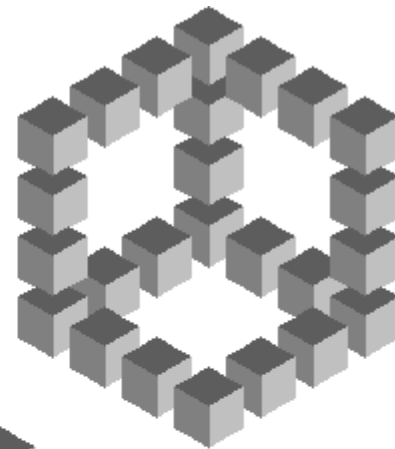


Utilizando cubos multilink, intenta construir las estructuras representadas en las figuras anteriores.

¿Cuáles de dichas figuras son imposibles?
Justifica tu respuesta.

ACTIVIDAD 3

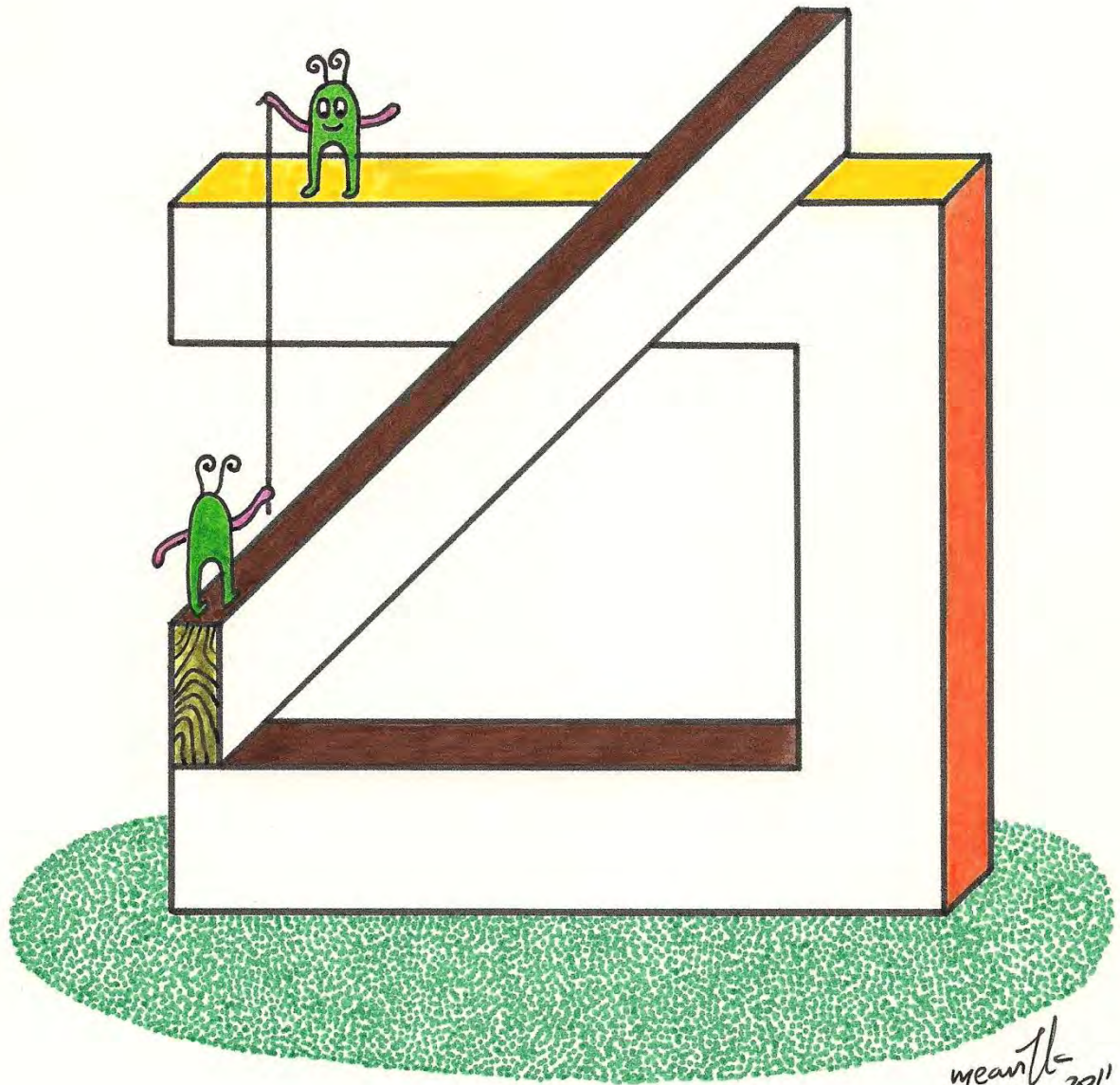
Sin utilizar cubos multilink clasifica las figuras siguientes en posibles e imposibles. Justifica tu respuesta.



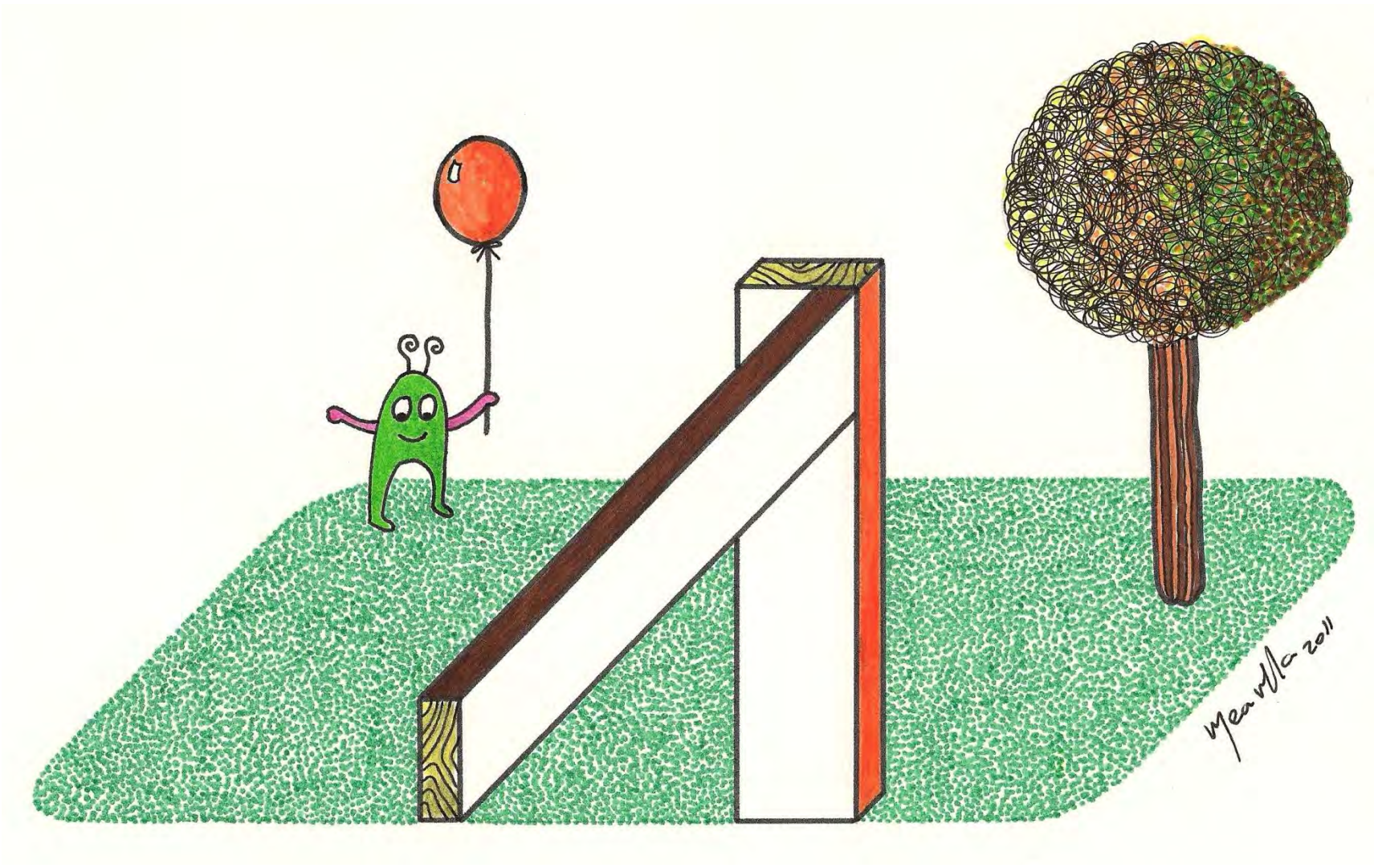
DEFINICIÓN 2:

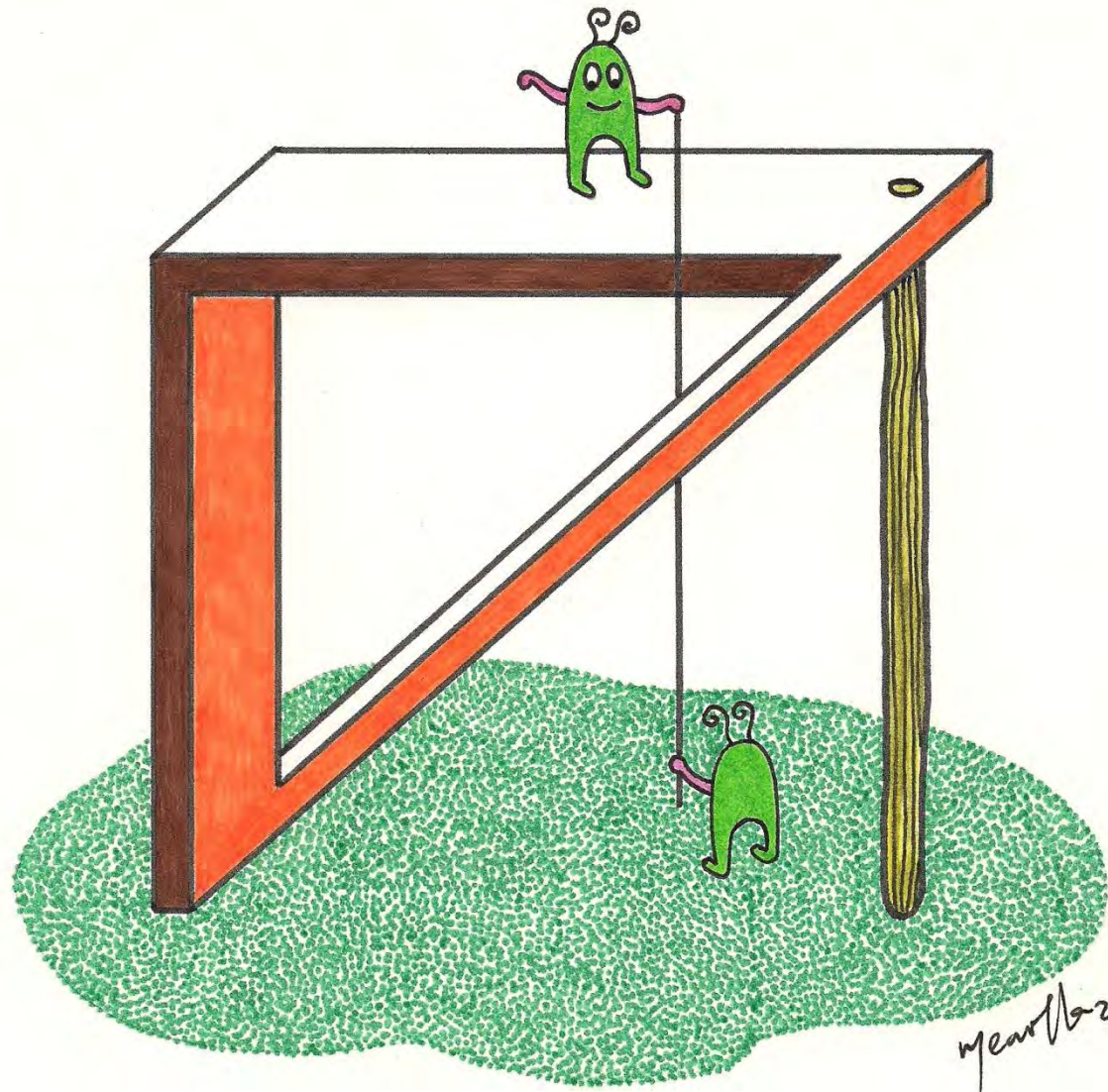
Figuras imposibles son aquellas que se pueden dibujar en un papel pero que no pueden construirse en el mundo tridimensional.



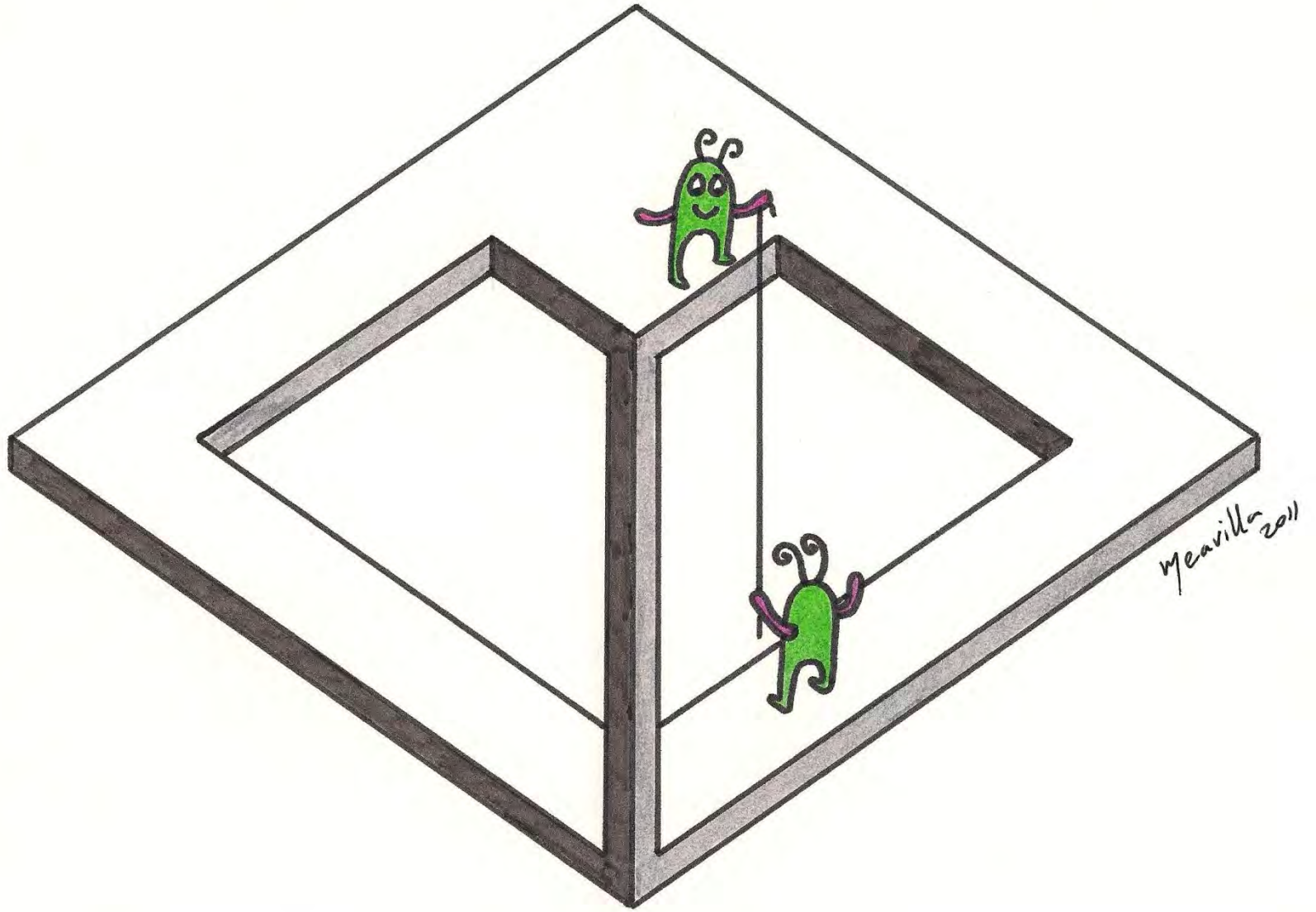


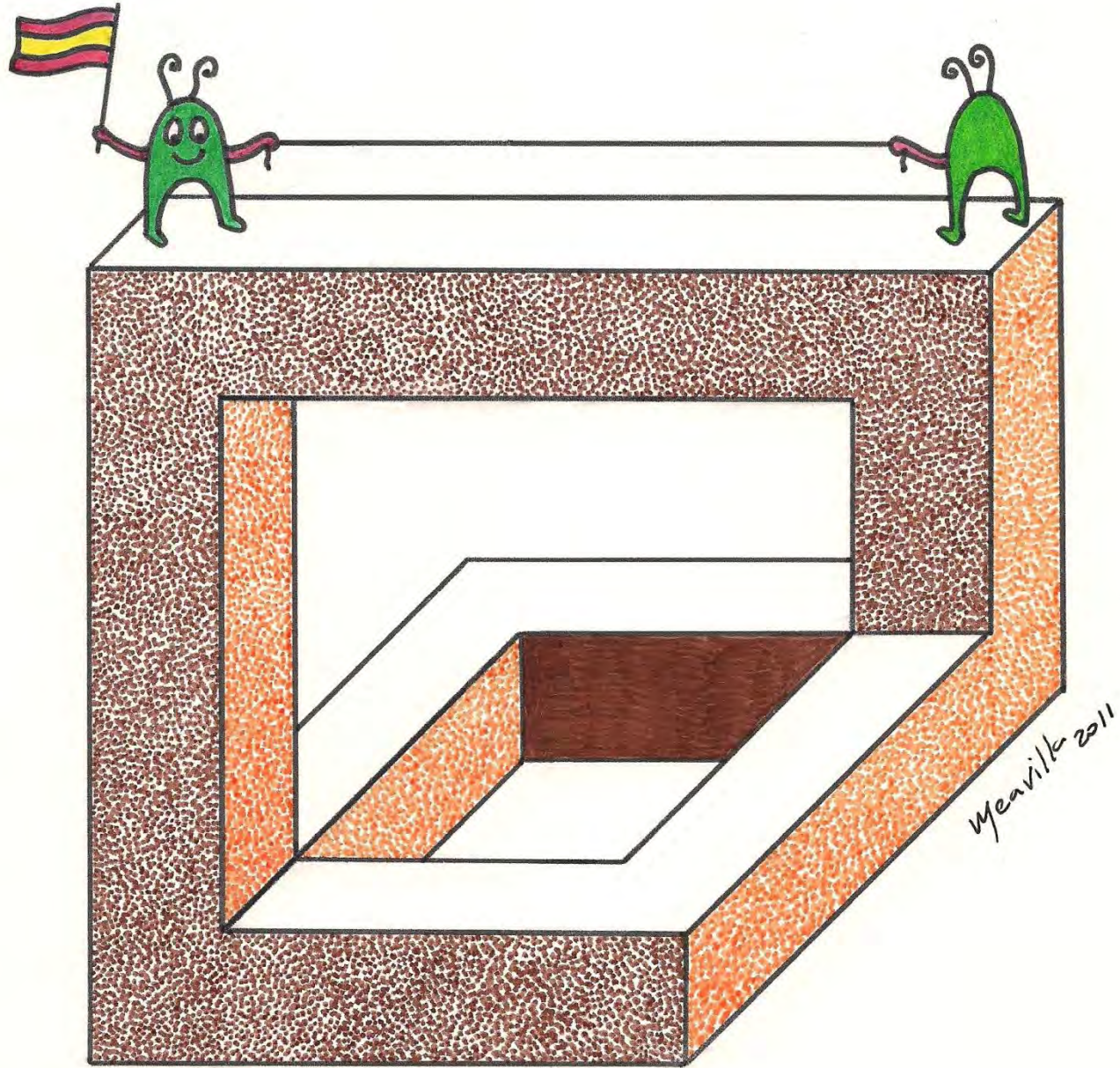
meanth-2011

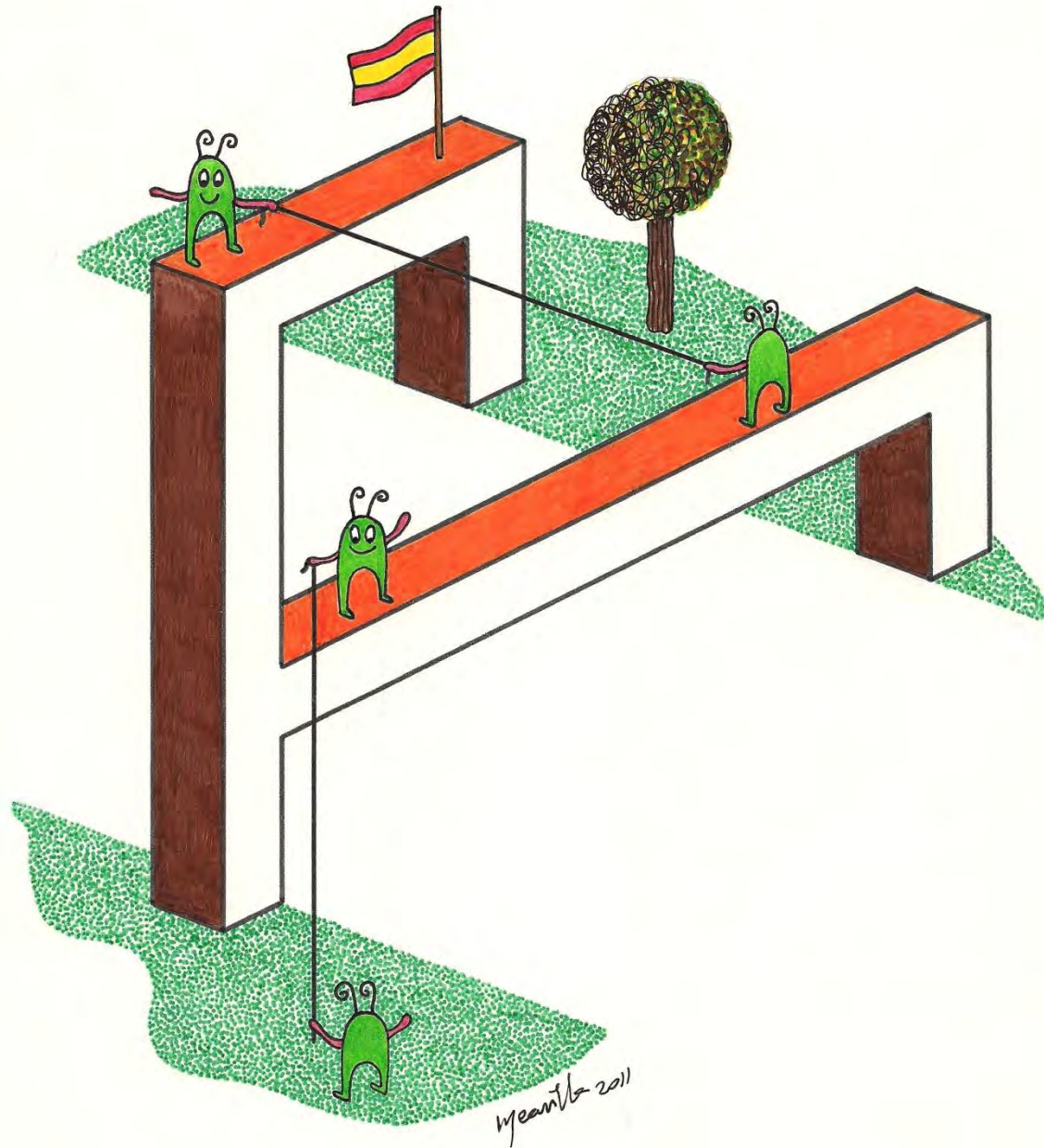


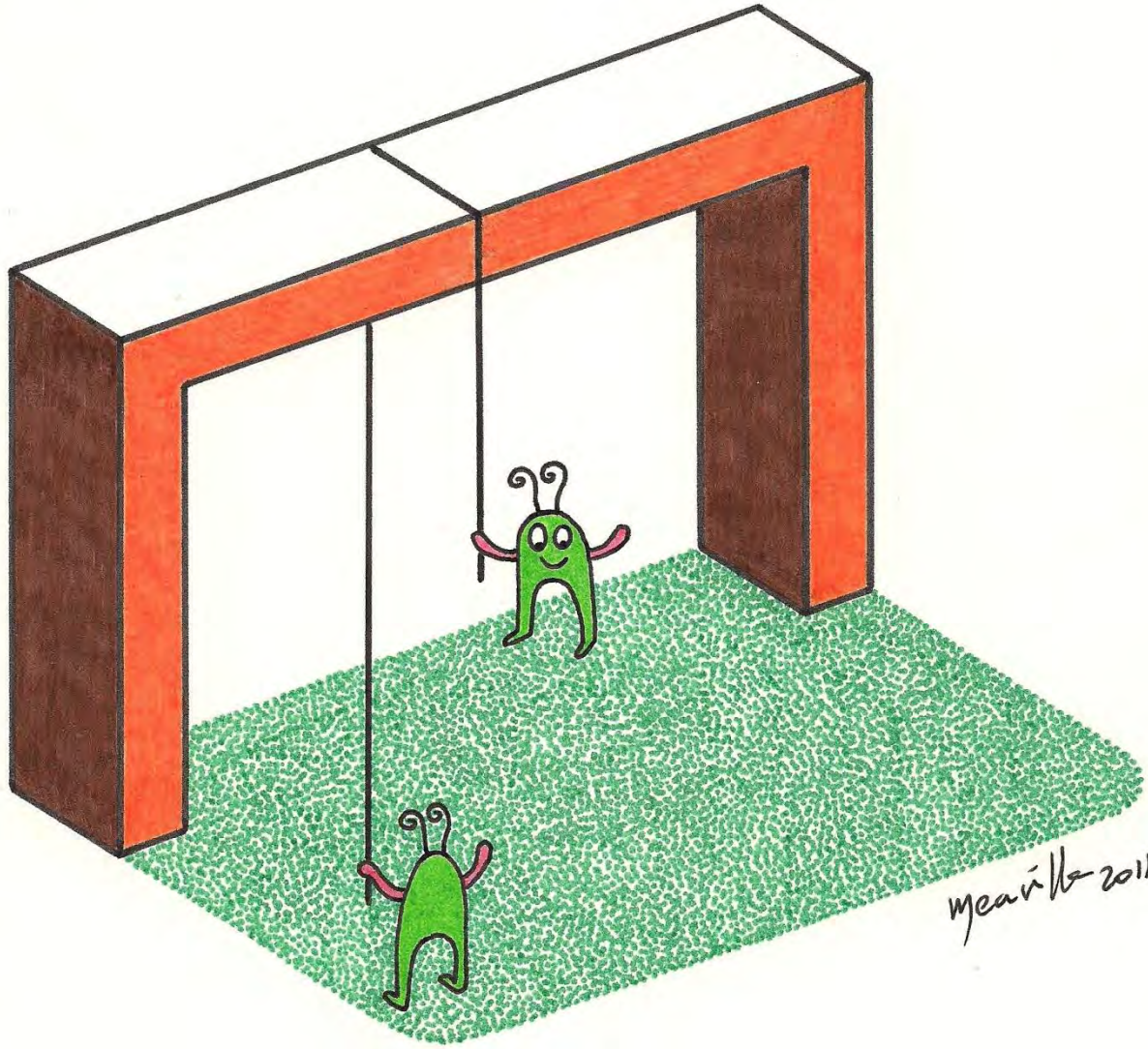


meat/2011

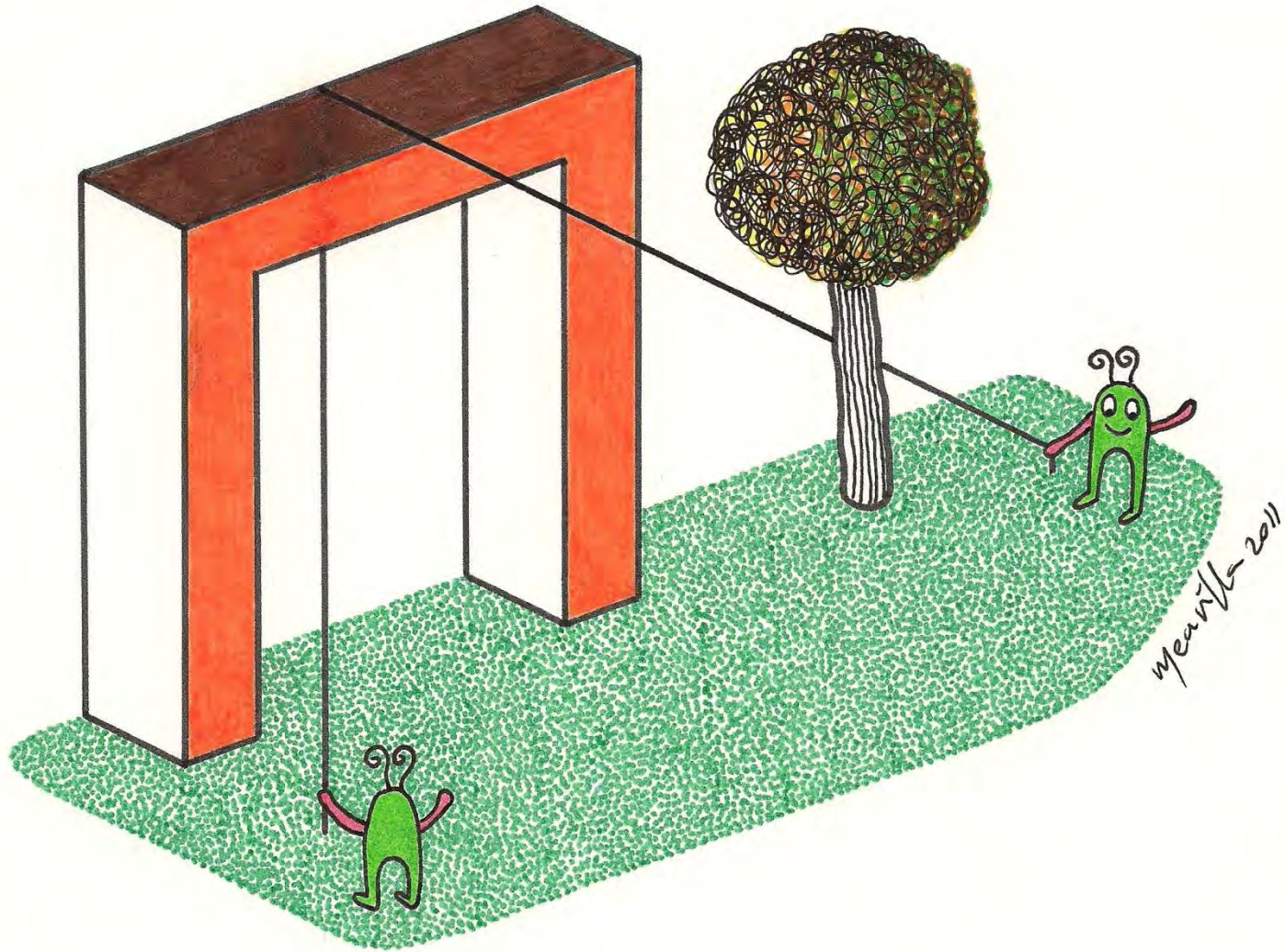


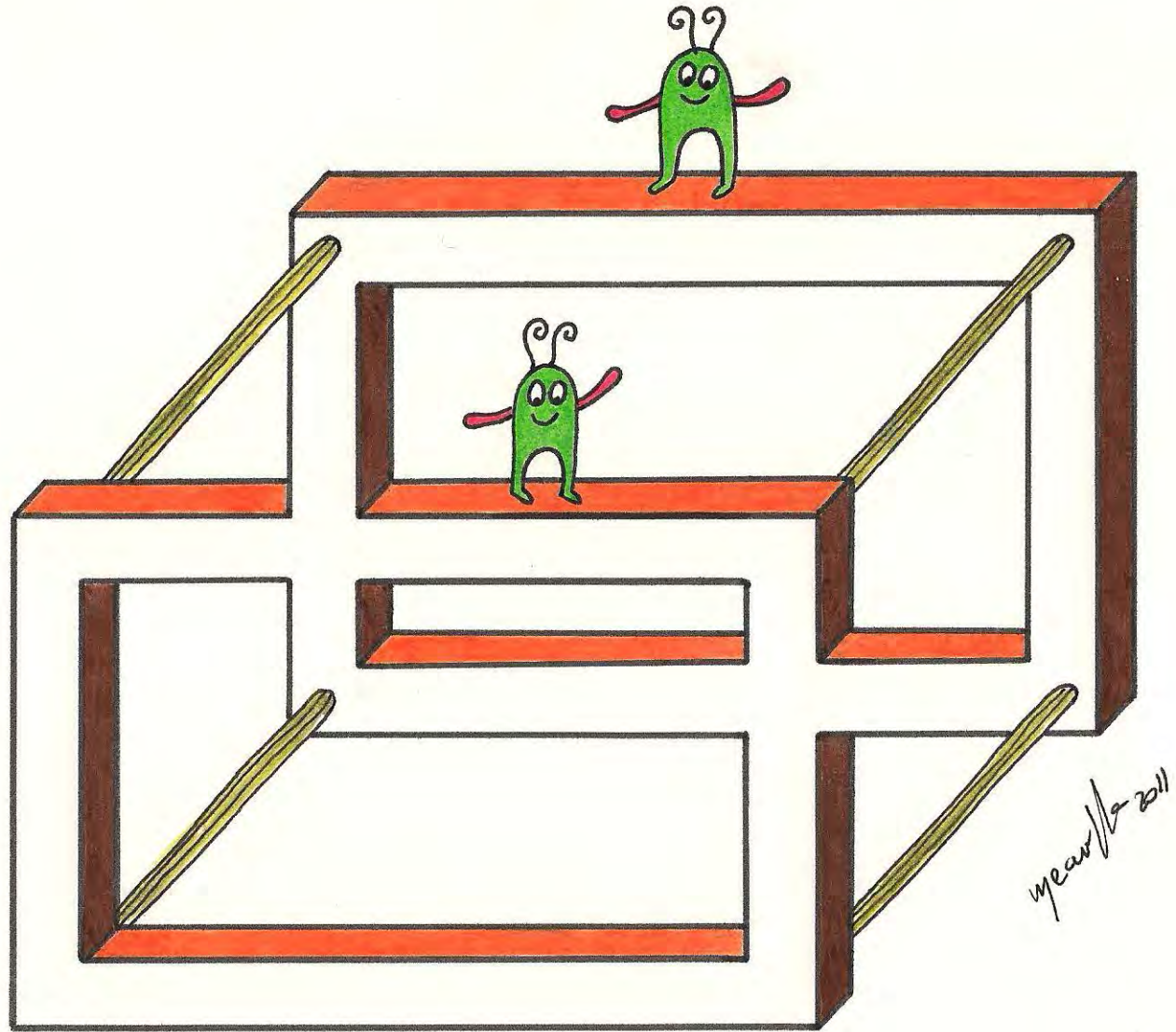


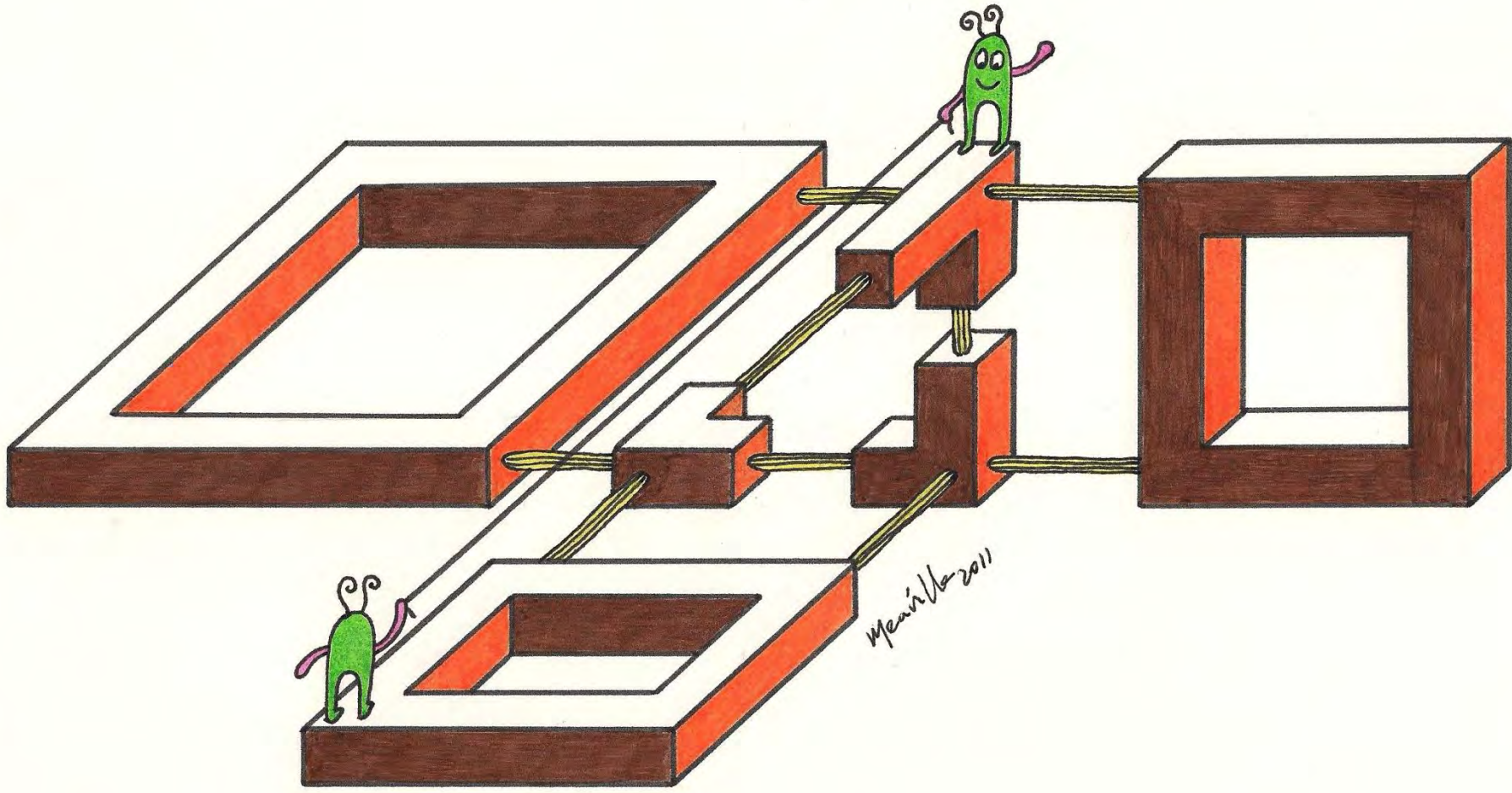


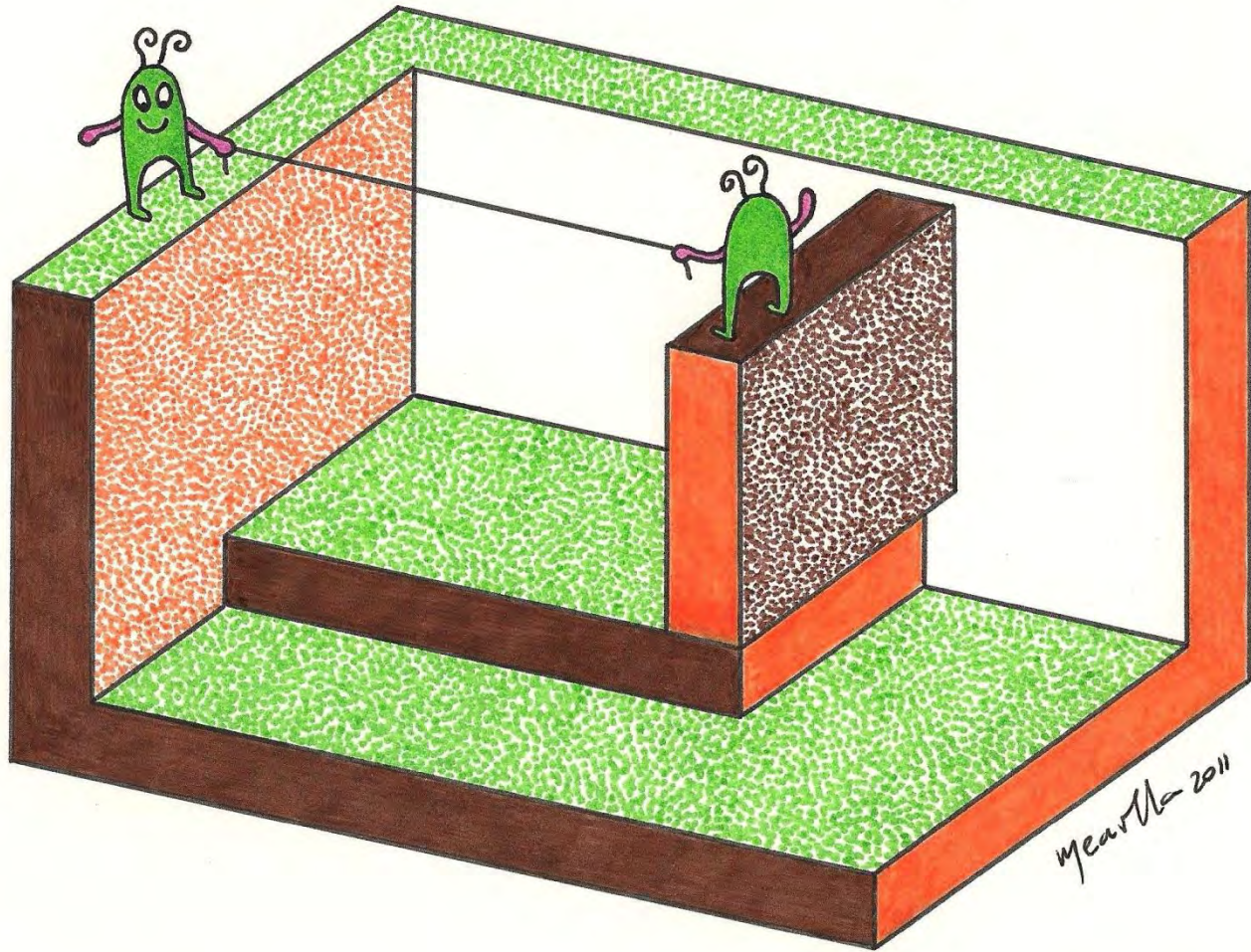


mevika 2011

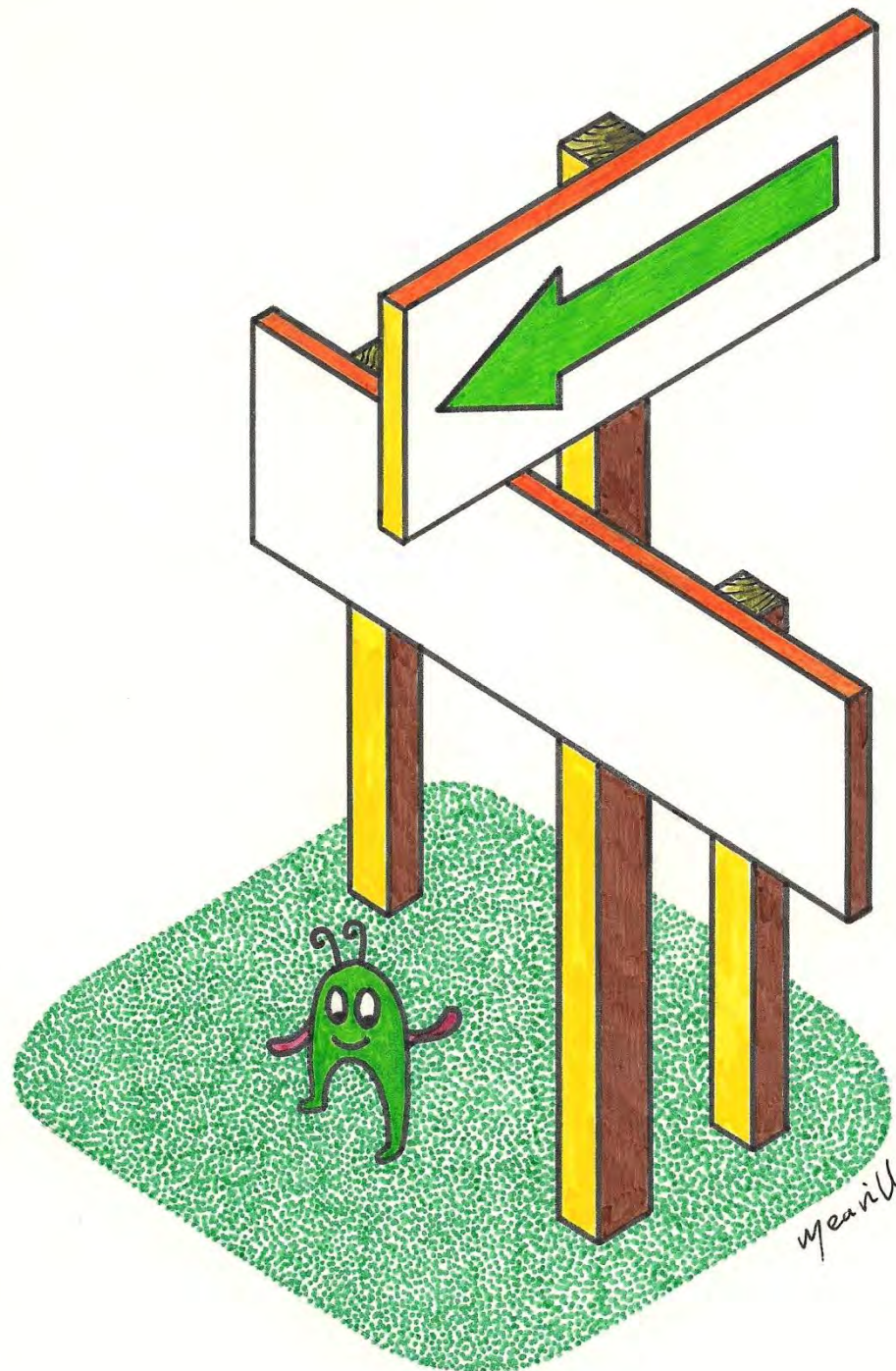




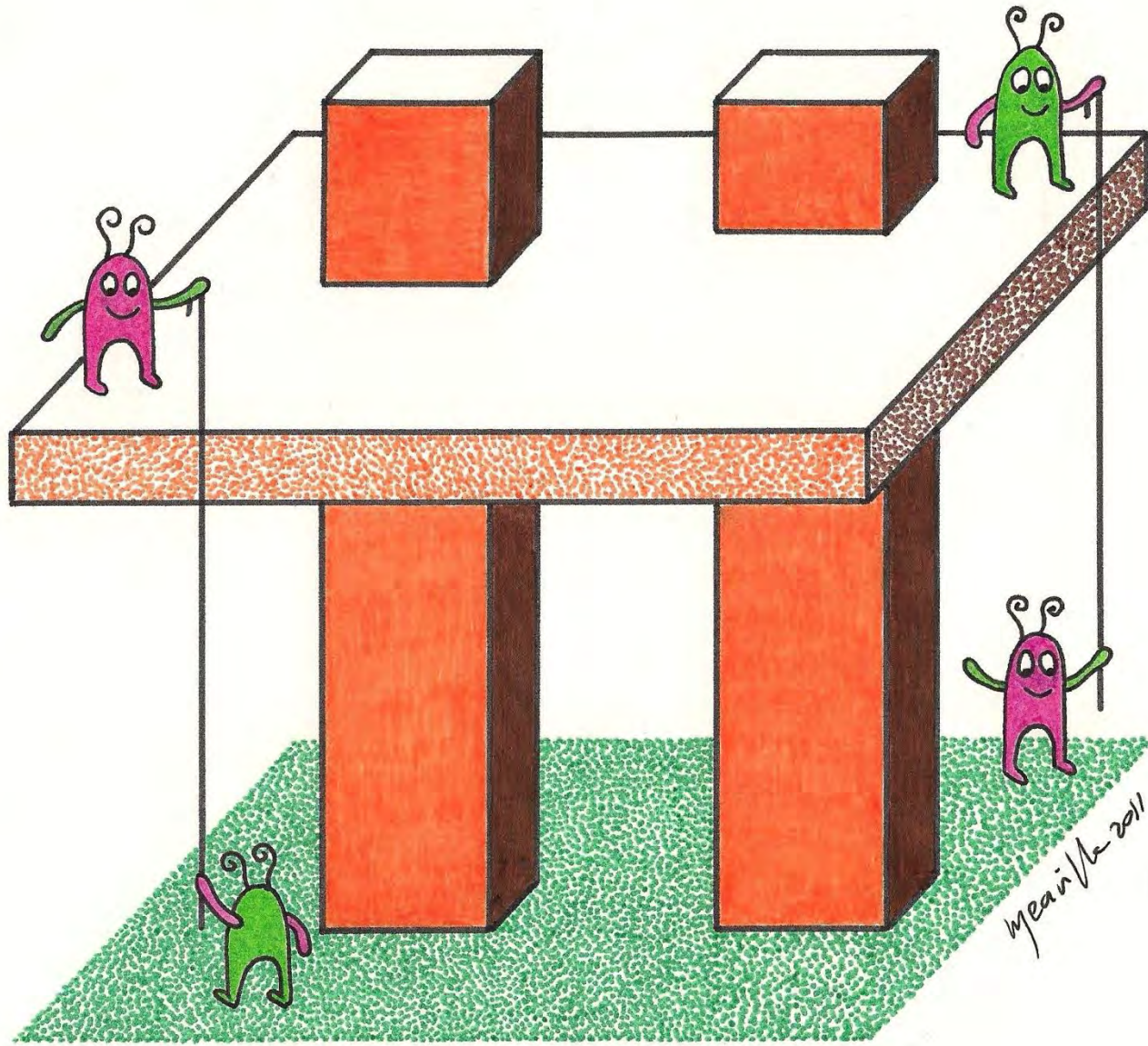




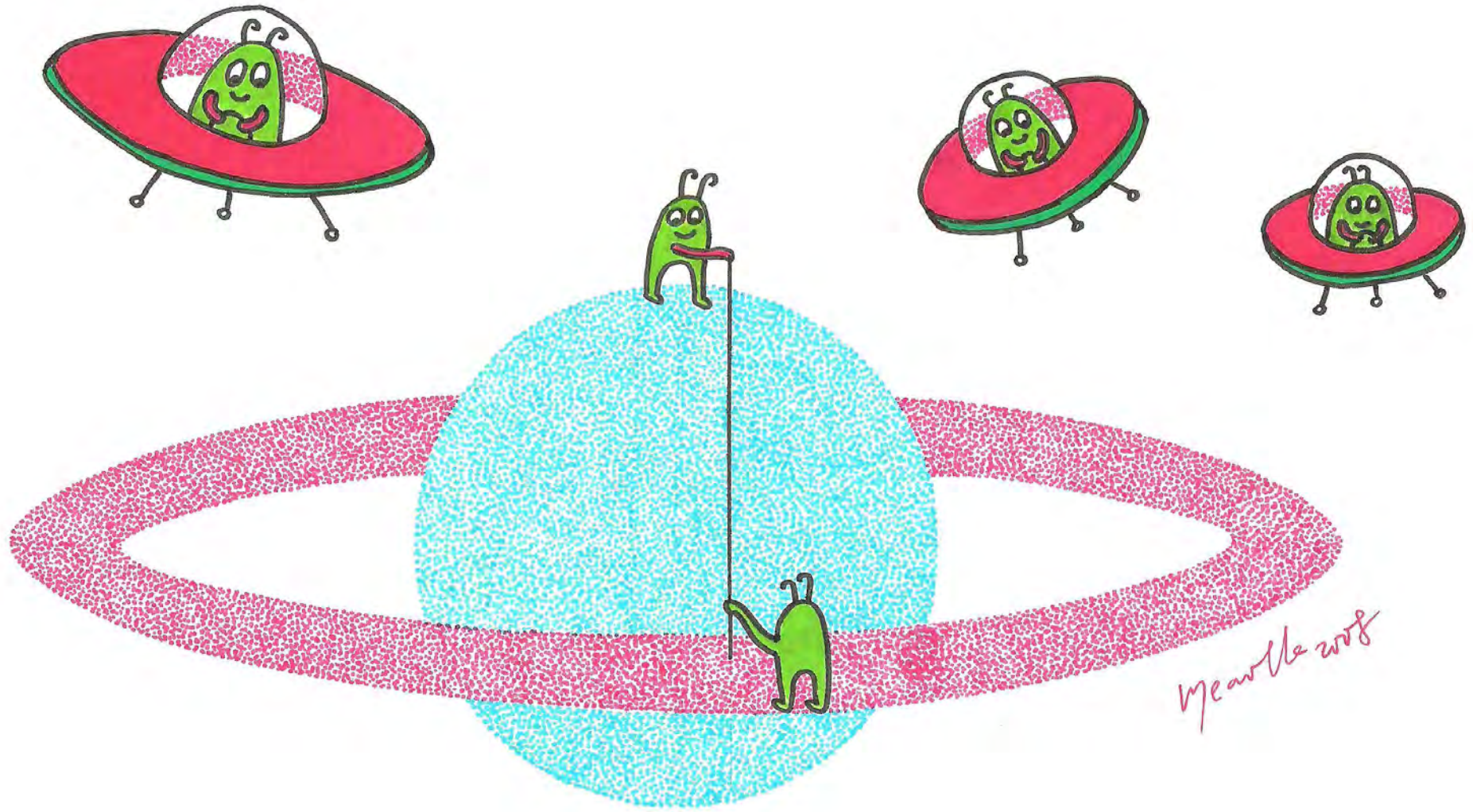
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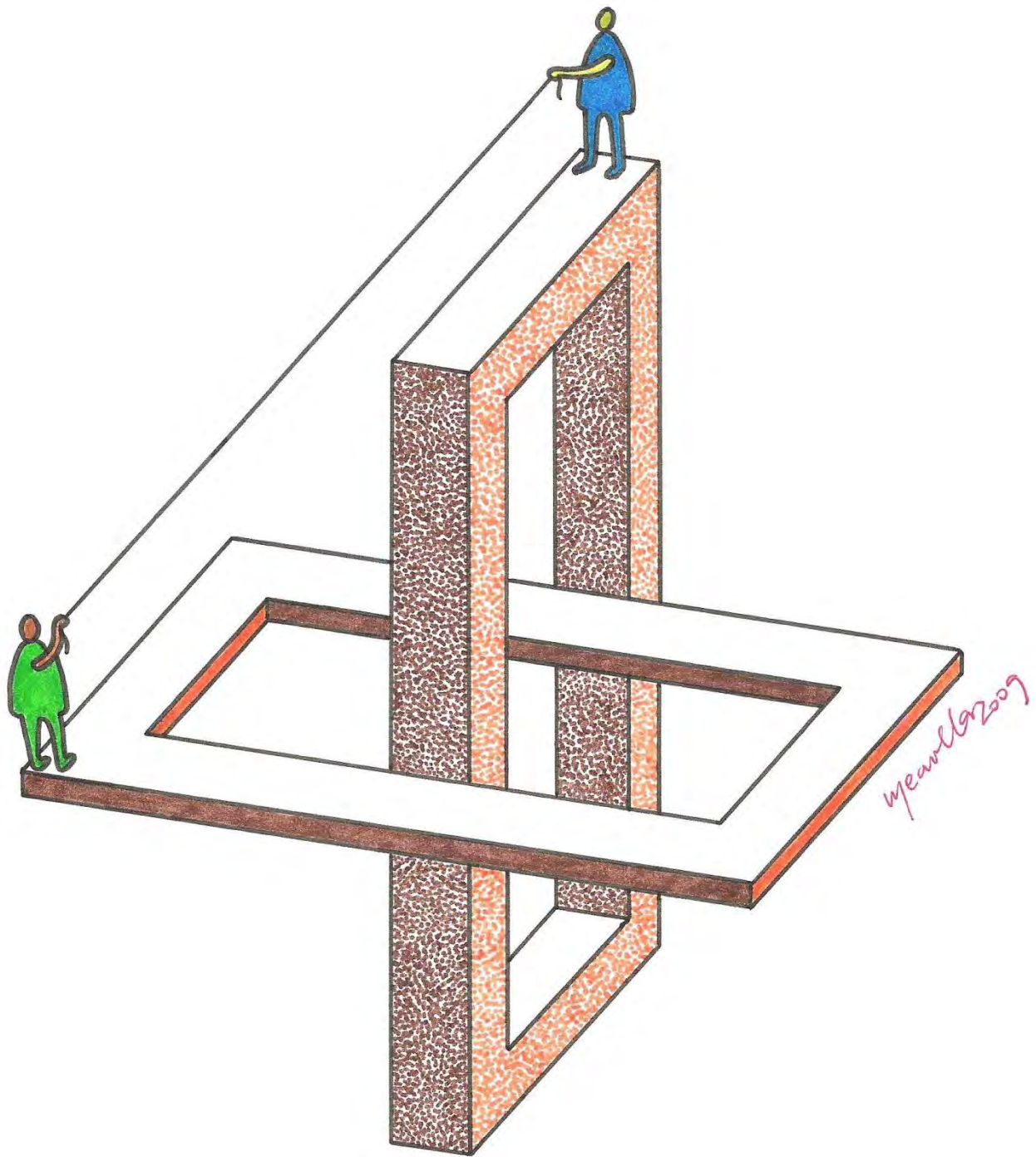
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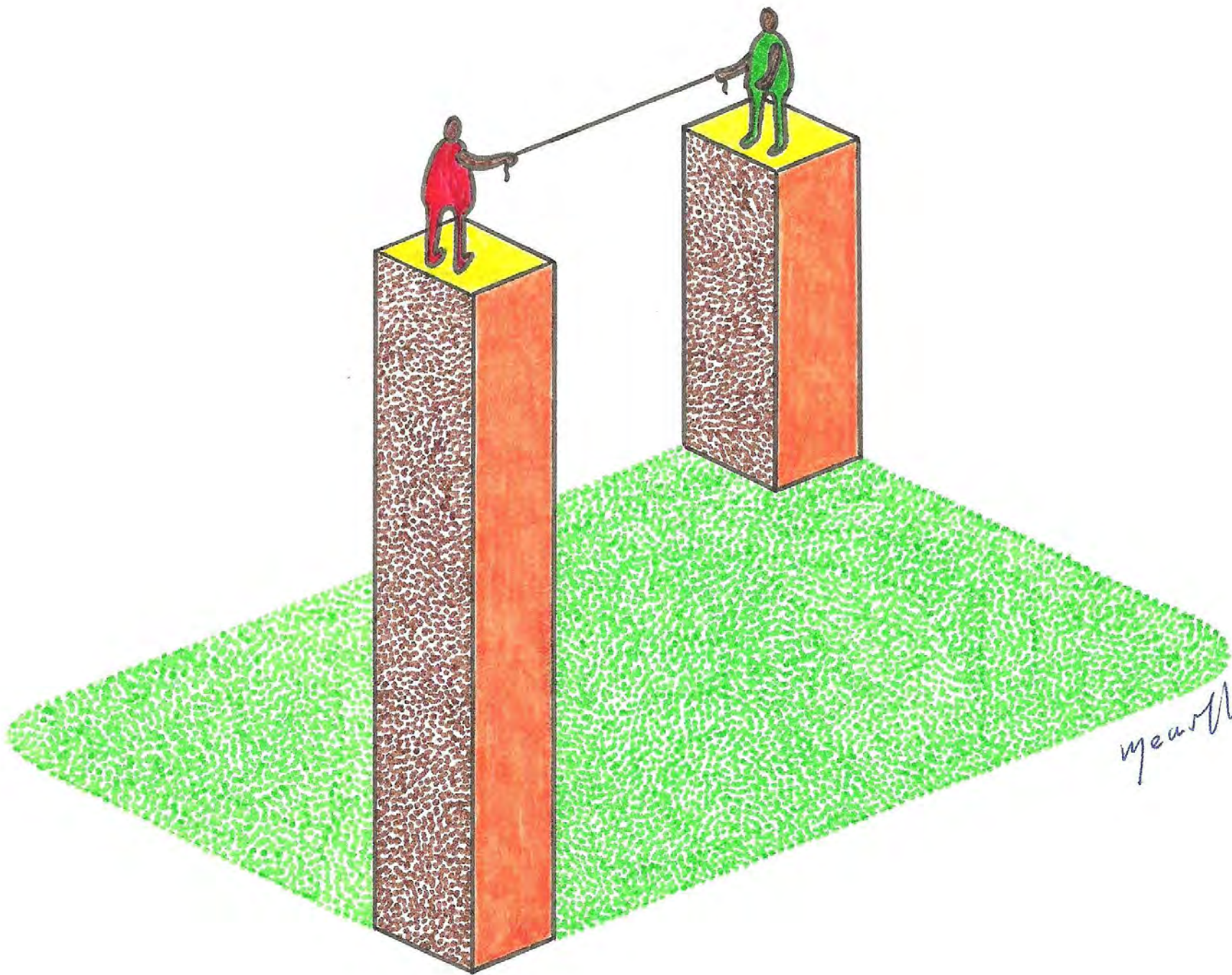


mea in /a 2011

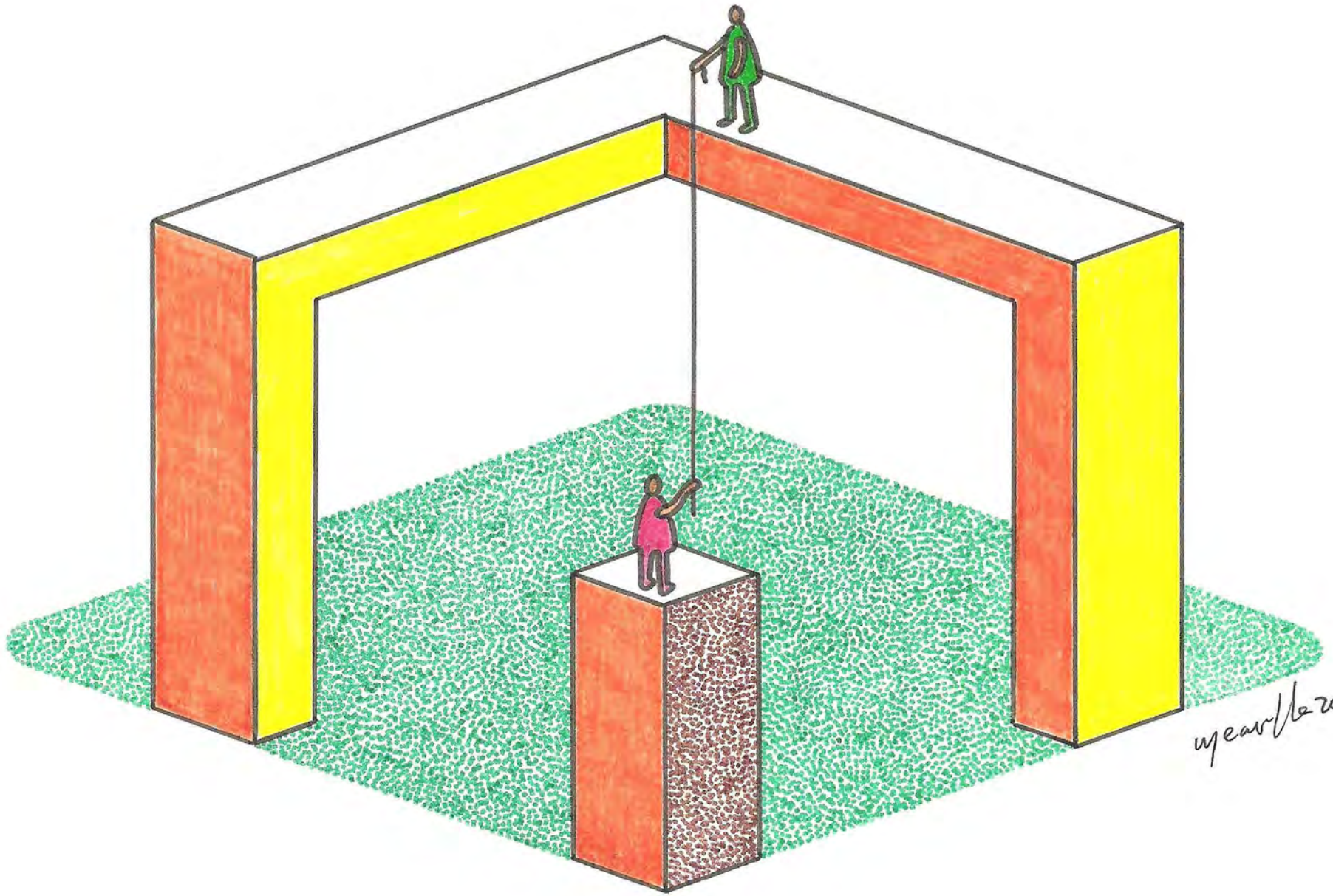


meville 2008

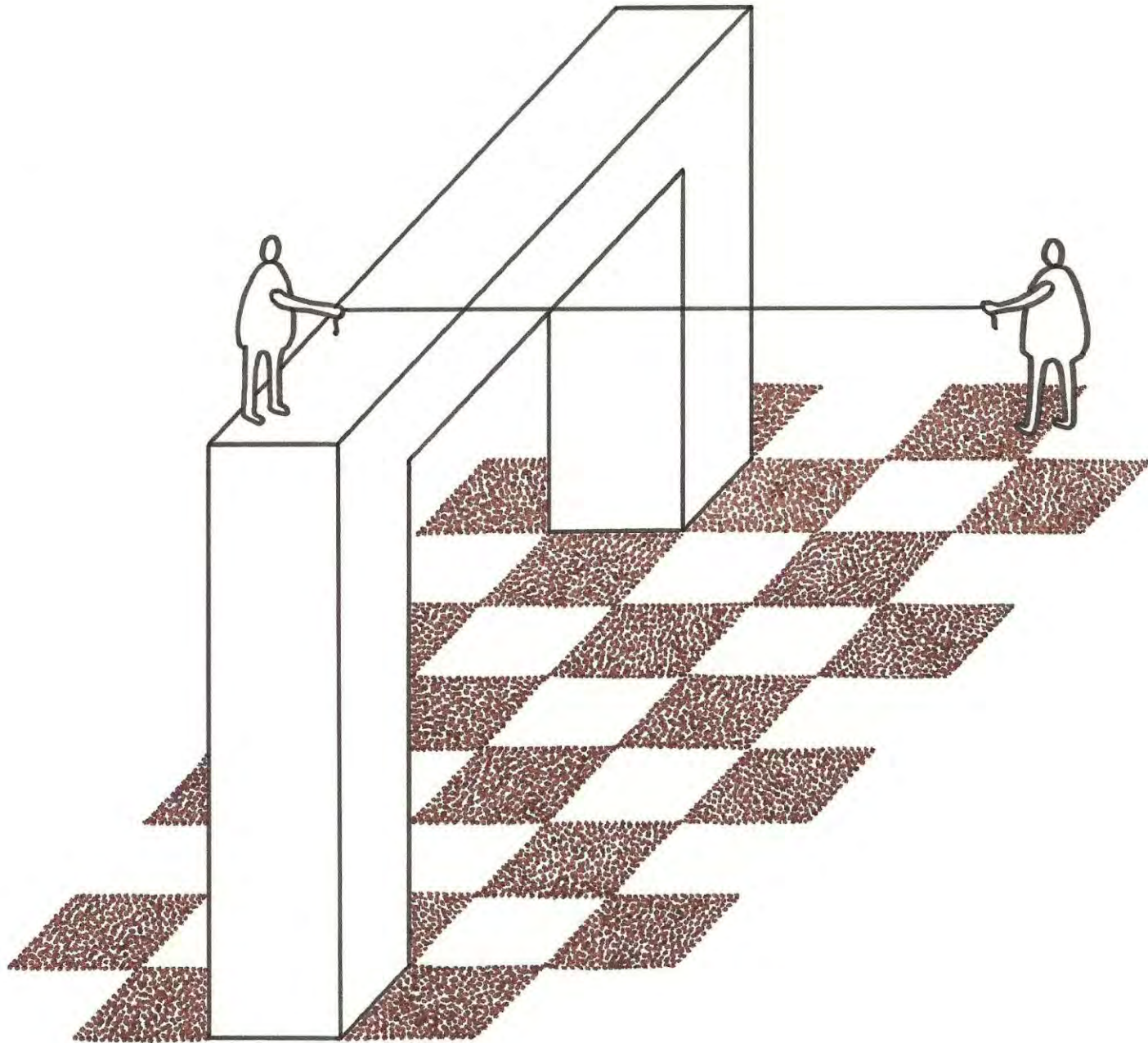




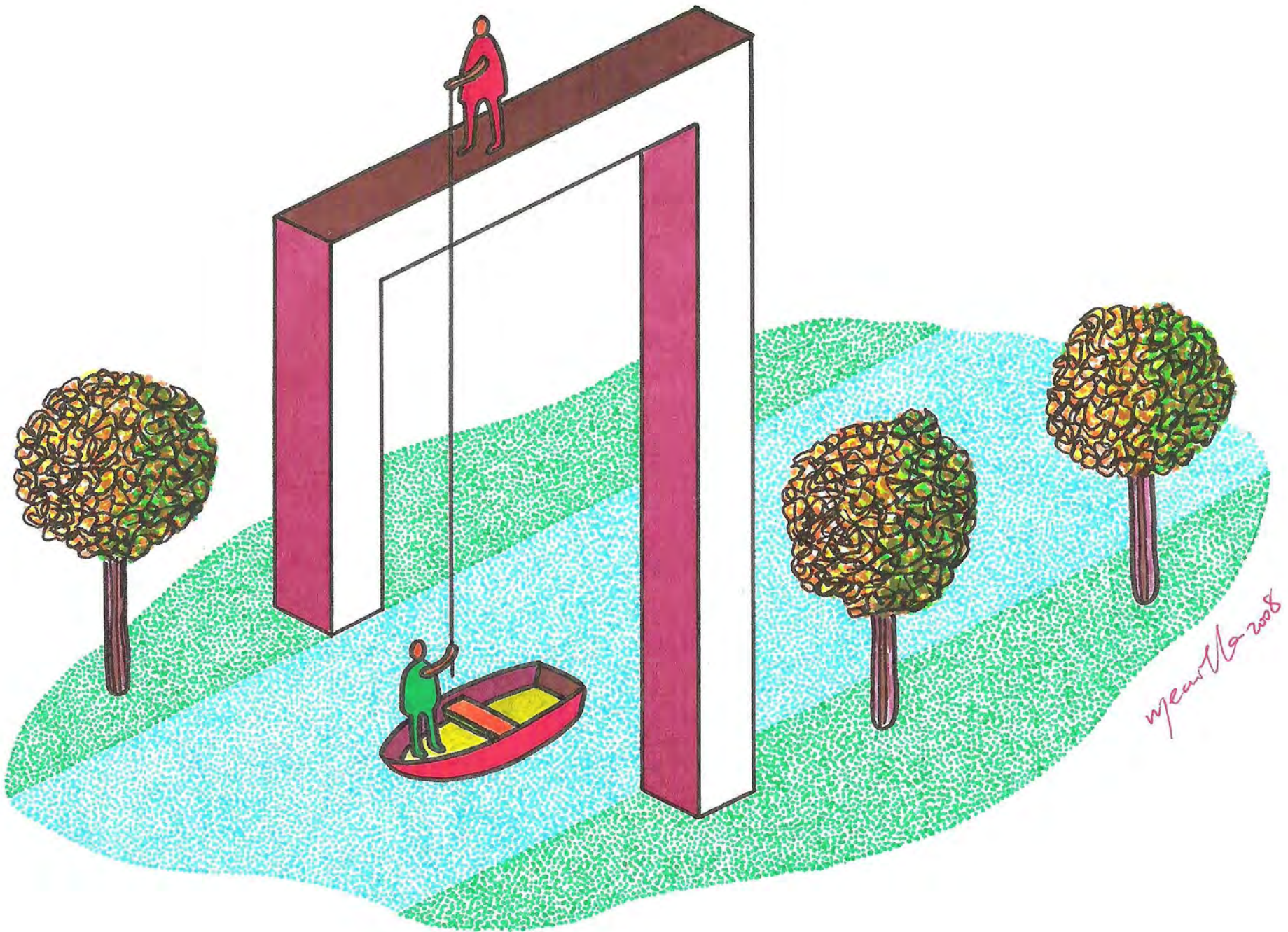
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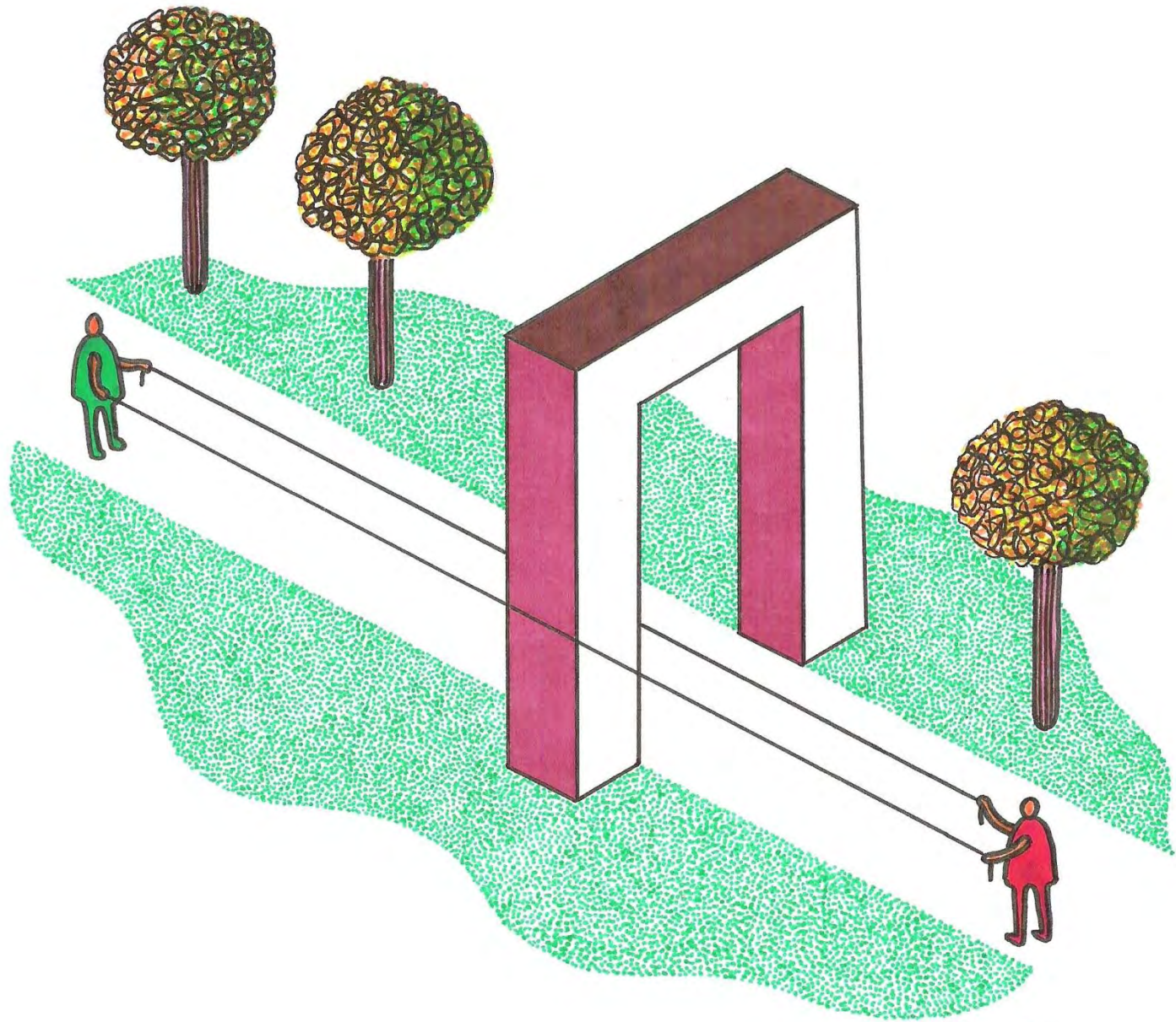
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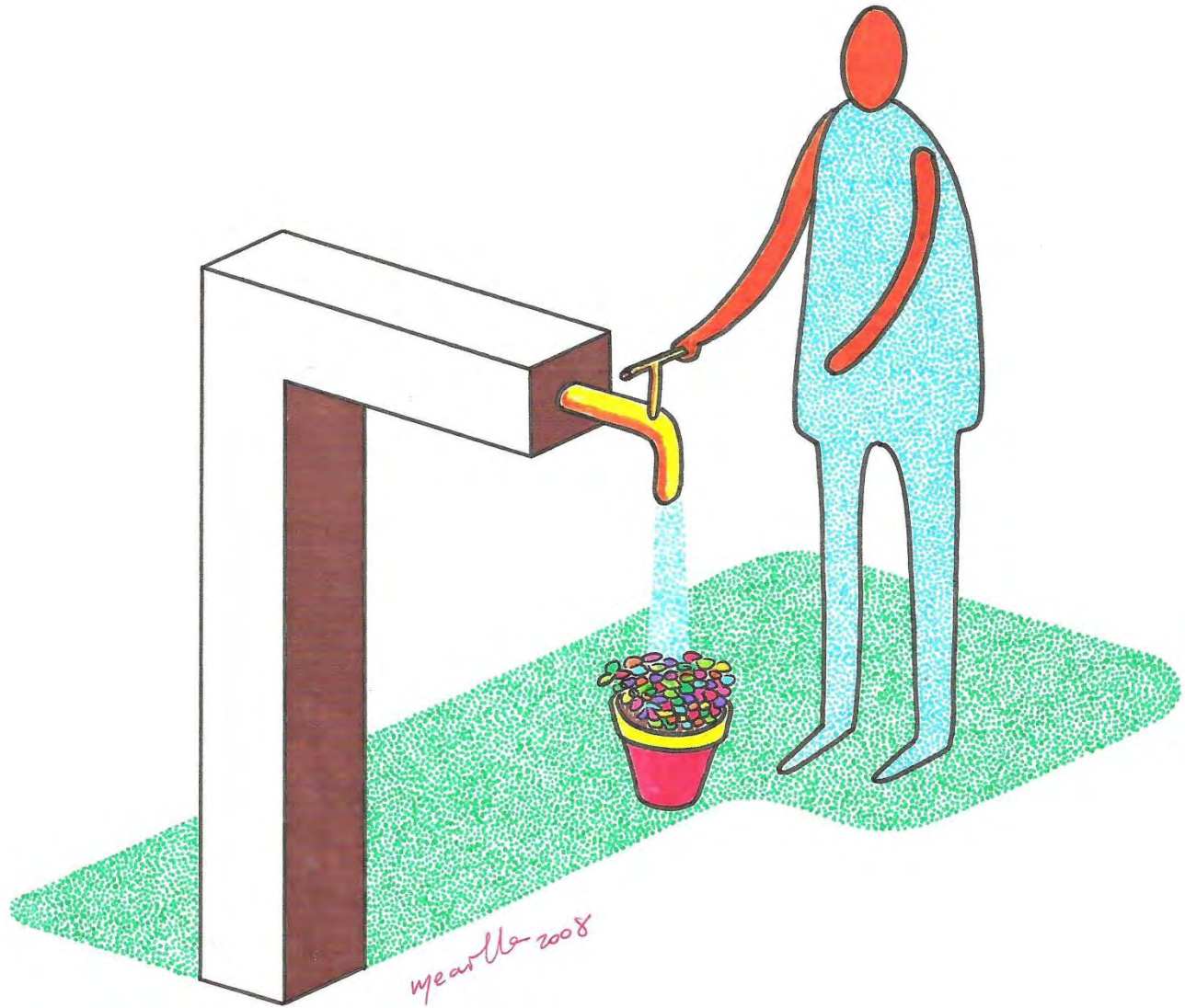
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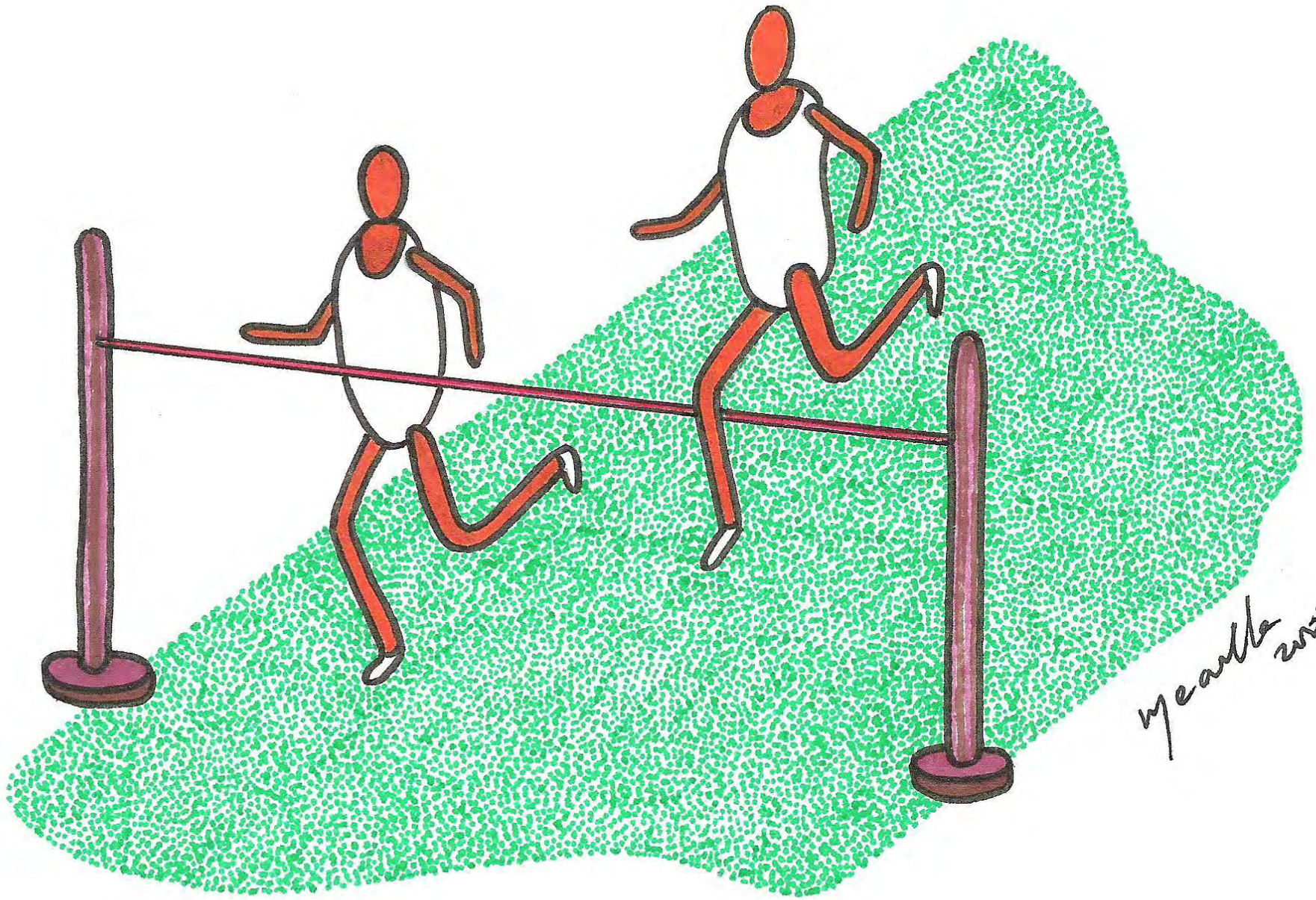


meant to 2008

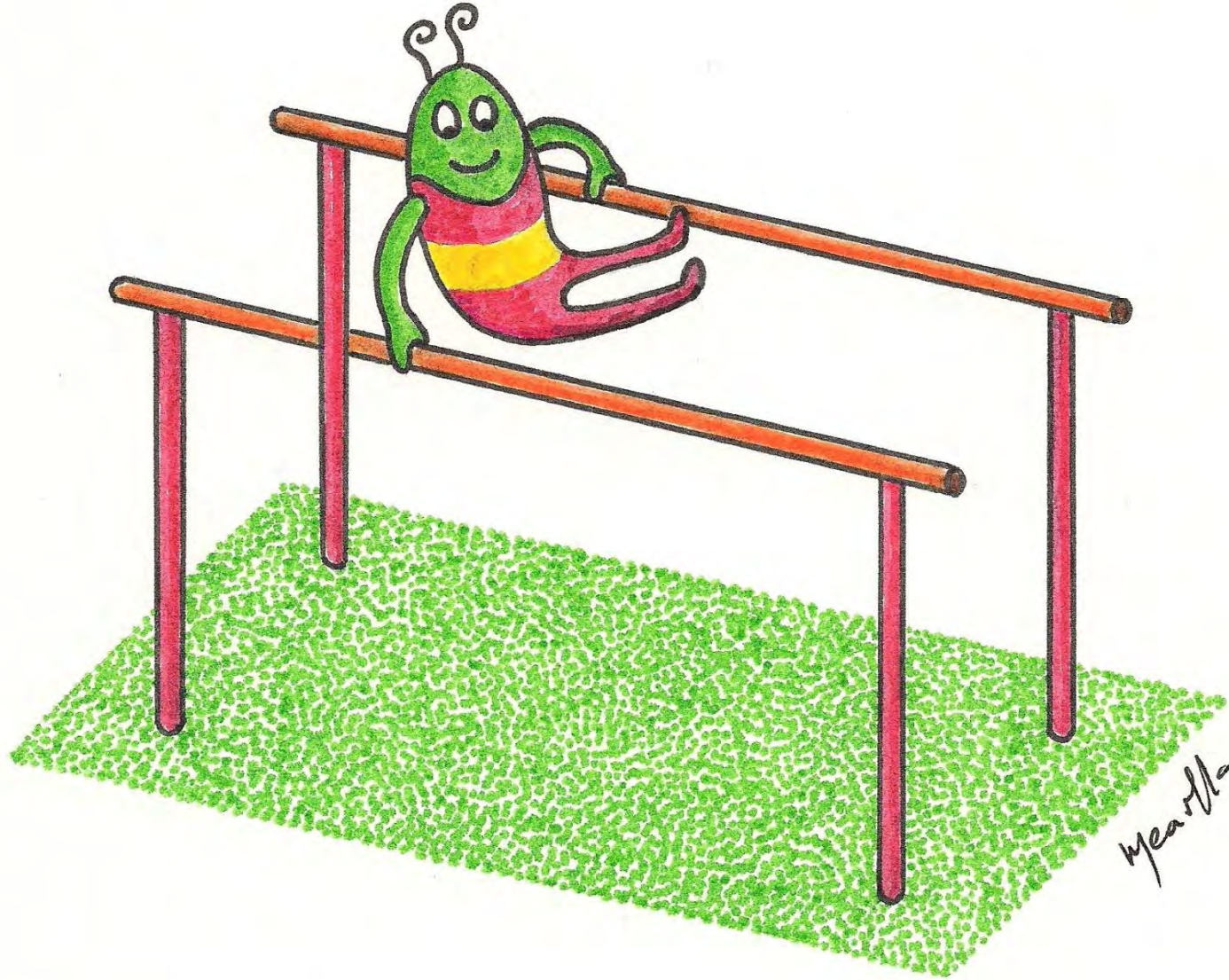


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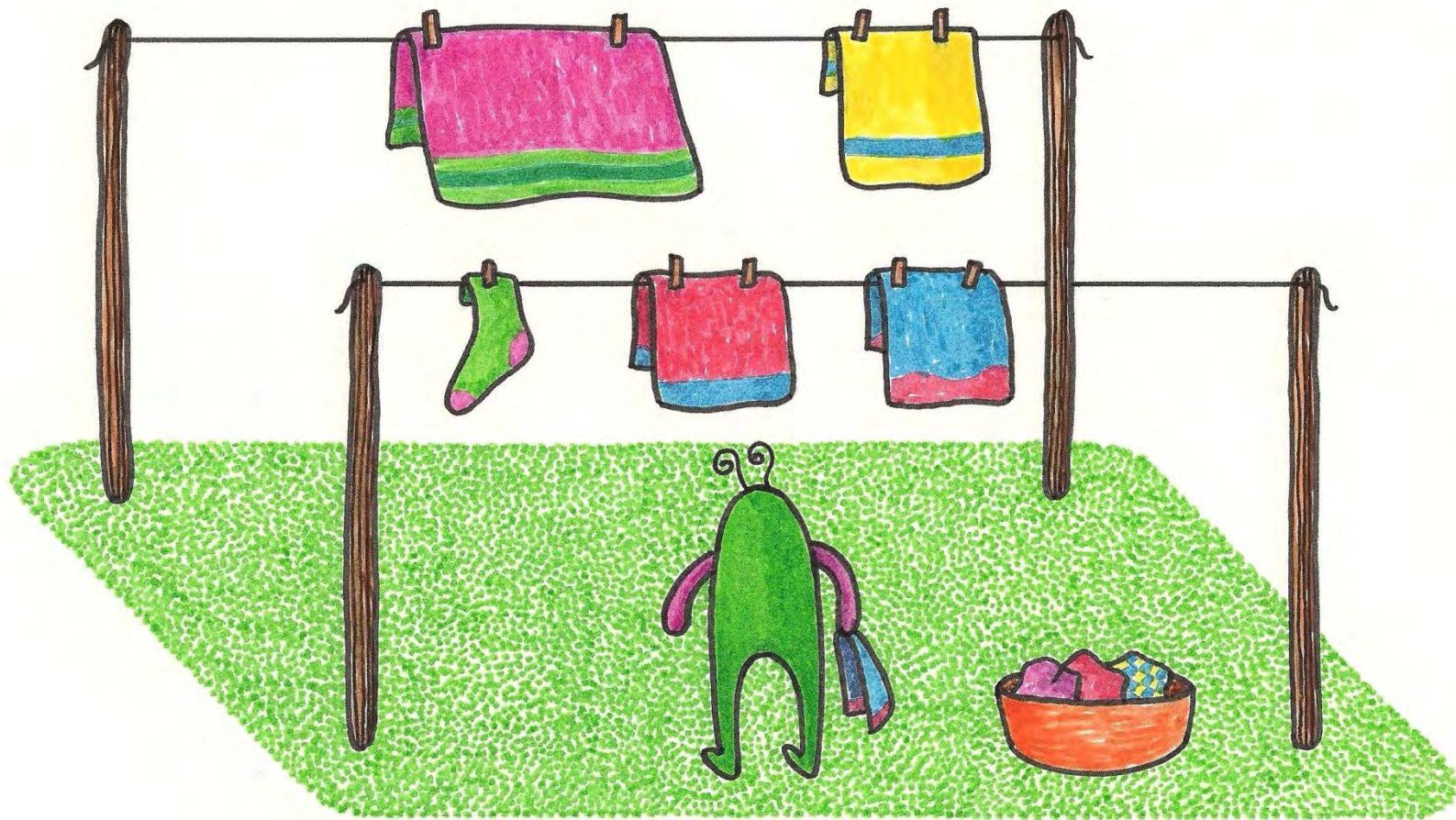




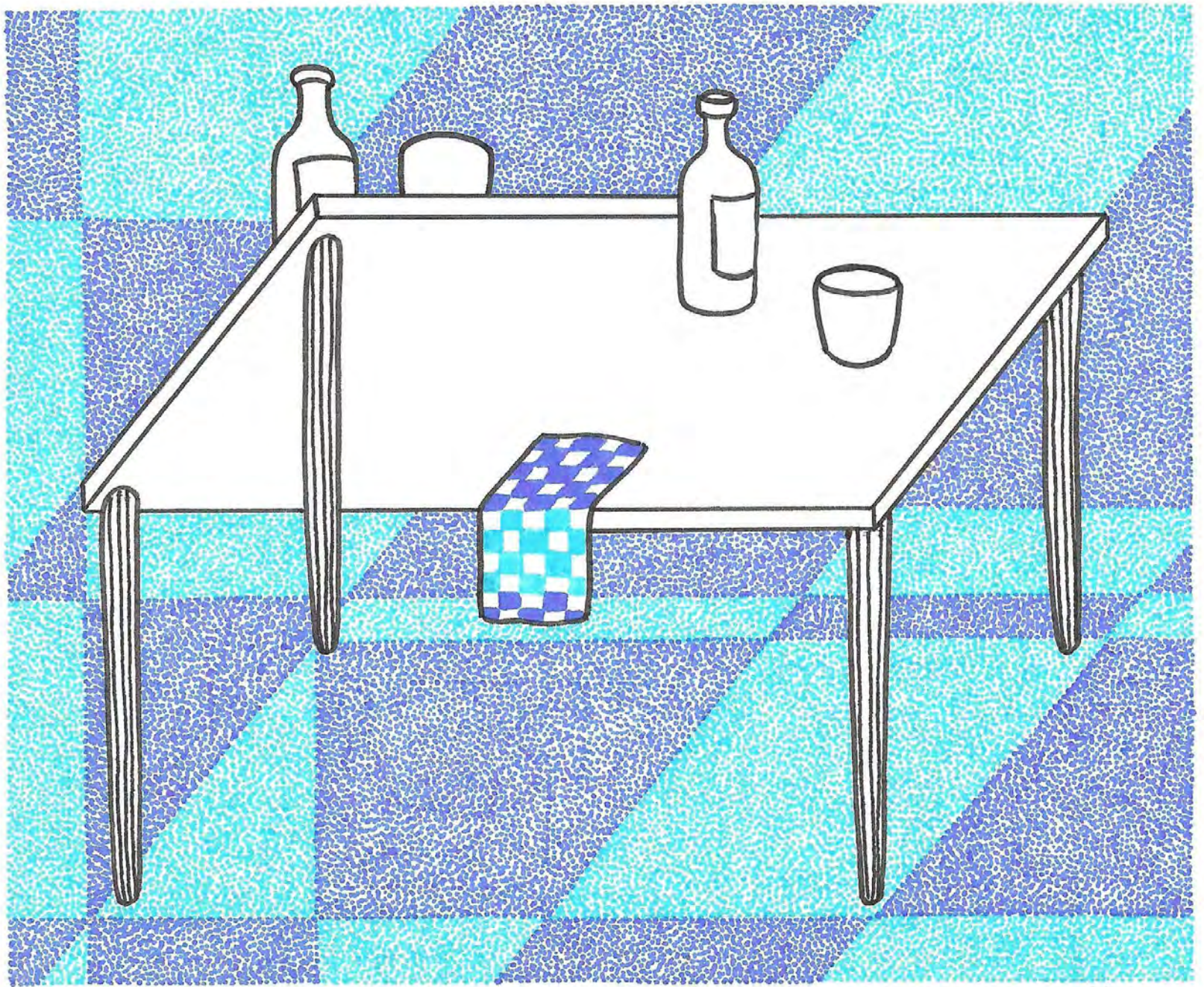
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year 11 - 2011



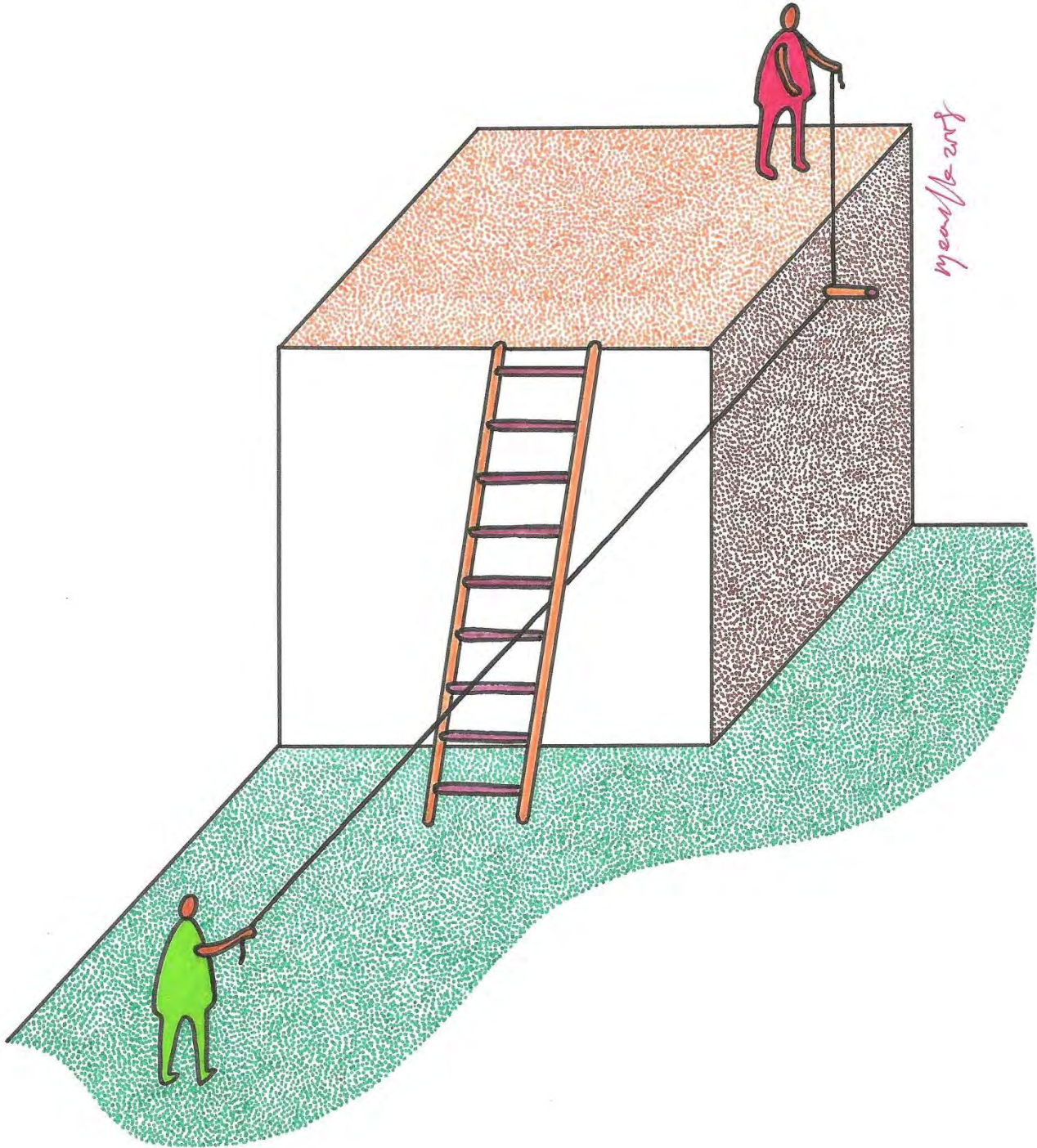
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meawla 2008



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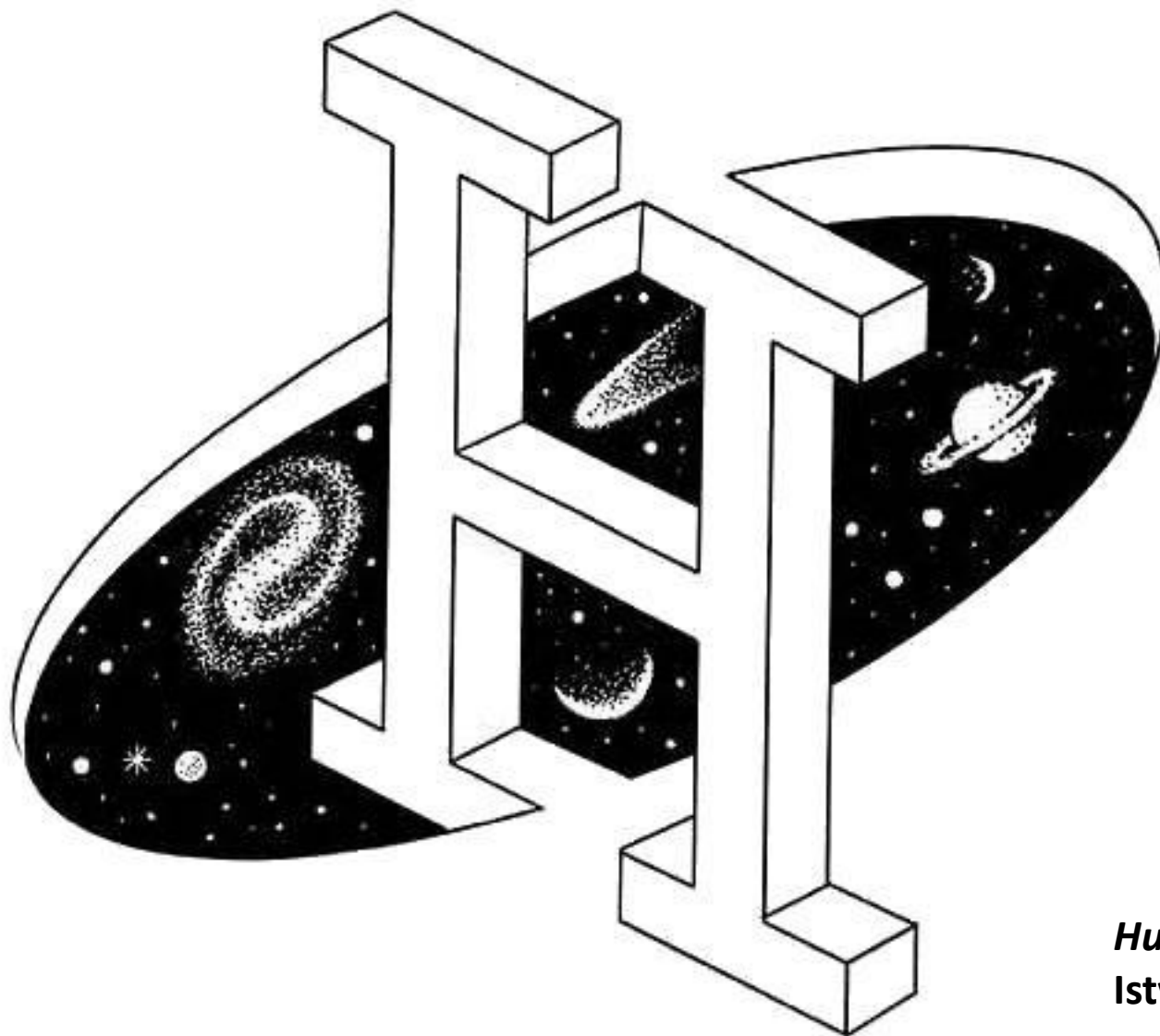


False perspective
William Hogarth (1754)

Whoever makes a DESIGN, without the Knowledge of PERSPECTIVE, will be liable to such Absurdities as are shewn in this Frontispiece.



Belvedere
M. C. Escher



Hungarian Mithology
István Orosz

IMPOSSIBLE WORLD

<http://im-possible.info/english/index.html>



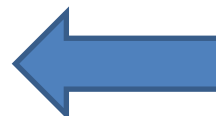
Russian version

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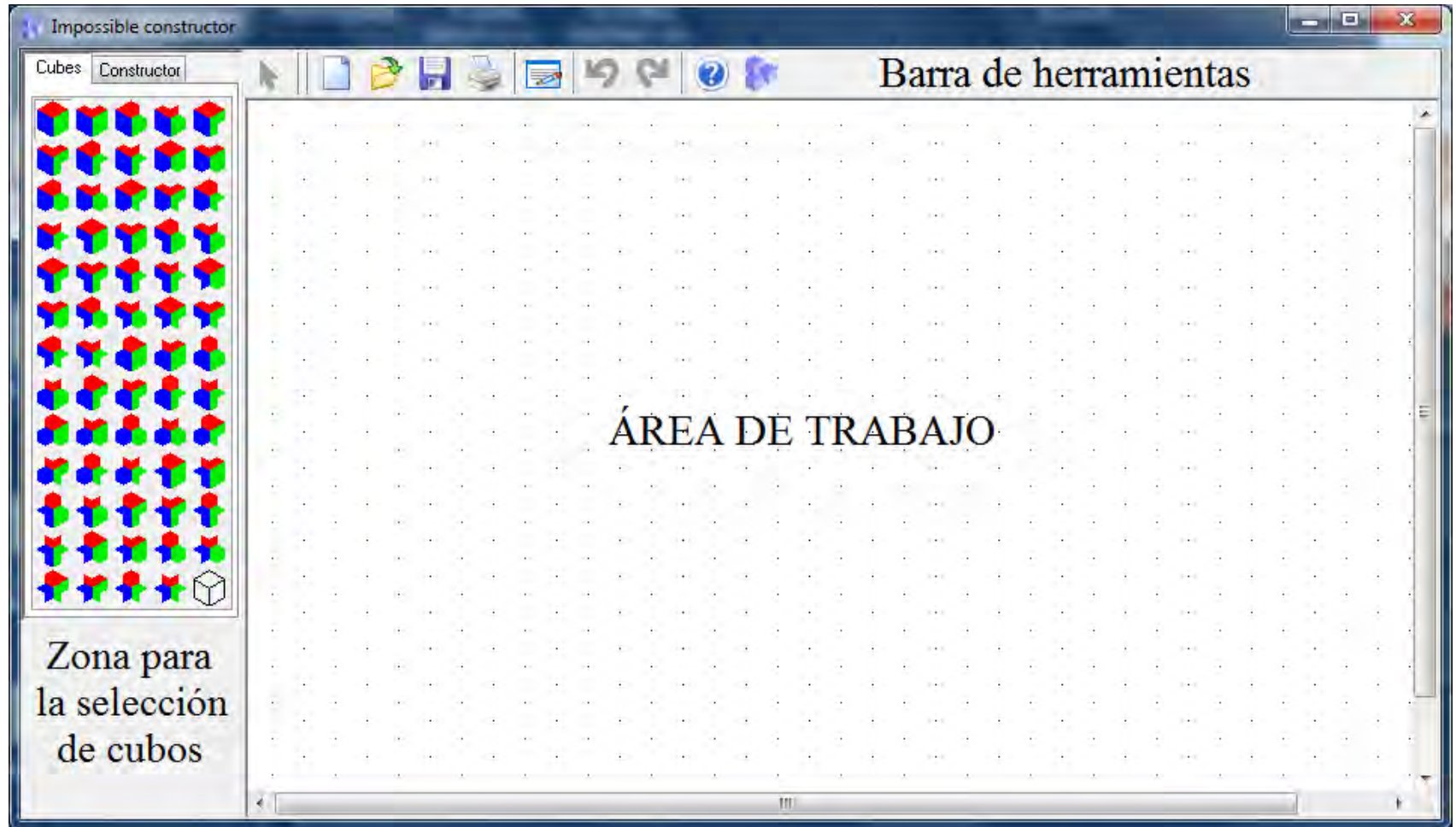
Vlad Alexeev



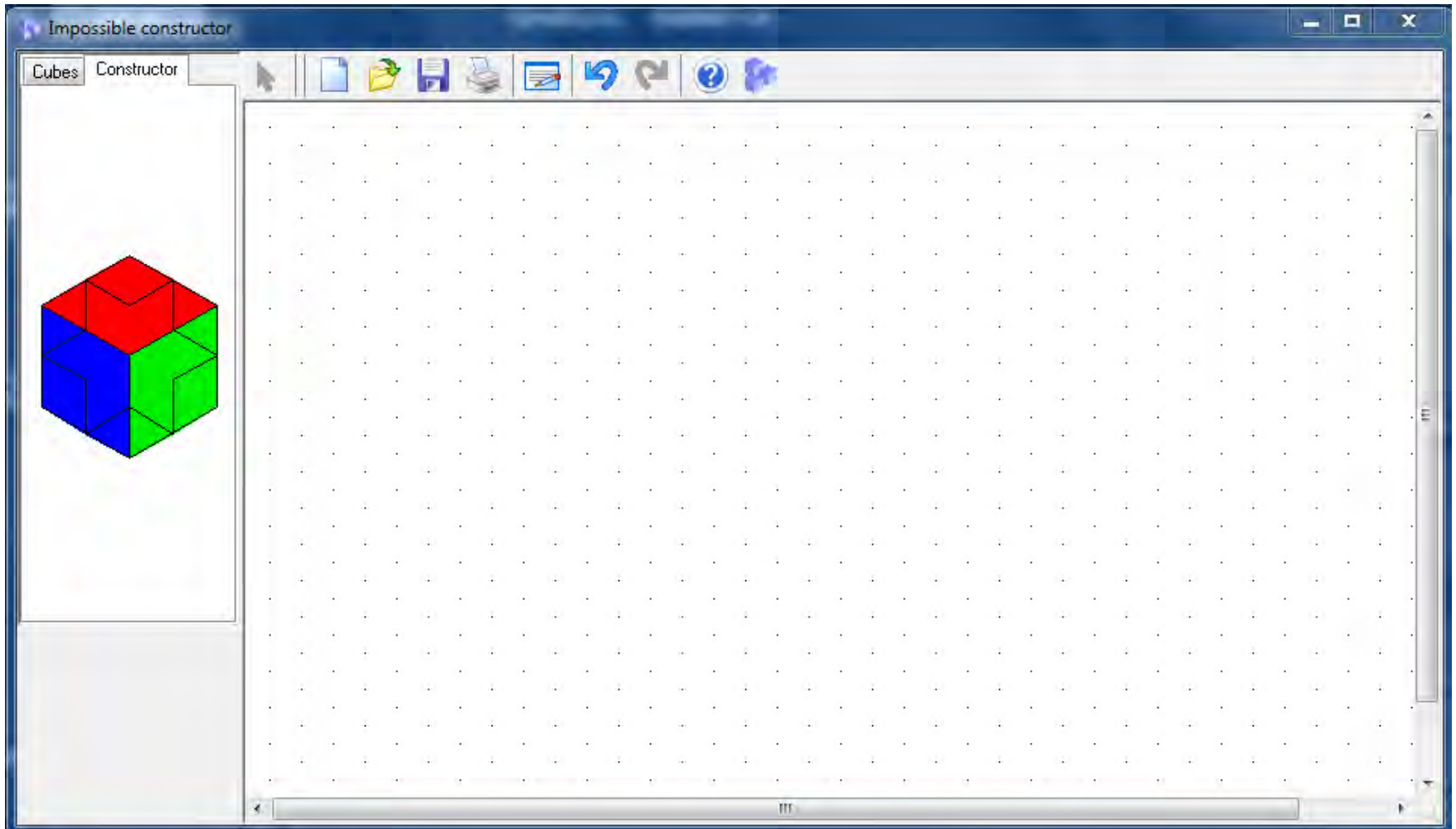
Parte superior izquierda de la página

IMPOSSIBLE CONSTRUCTOR 1.25.

VENTANA PRINCIPAL



Zona para la selección de cubos: CONSTRUCTOR



BARRA DE HERRAMIENTAS



1. SELECT AND MOVE
2. NEW FIGURE
3. OPEN
4. SAVE FIGURE
5. PREVIEW AND PRINT
6. OPTIONS
7. UNDO
8. REDO
9. HELP
10. ABOUT

