

## Quadrilaterals: ¿simple or complex?

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Quadrilaterals are well known. All of you learnt their properties, or at least some of them, in school. Actually, they are often used to introduce important concepts such as classification, subsets, and supersets in a geometric context. However, there are differences in different countries: are squares a special type of rectangles? are parallelograms a special type of trapezoids/trapeziums?

In physics, there are two classes of quadrilaterals you maybe heard of: the Hjelmslev quadrilaterals and the Watt linkages.

This talk presents a complete classification of the (convex) quadrilaterals according to 12 common properties and presents some curious findings and open questions. All done just to develop an application that helps young students in school to study the funny world of quadrilaterals.

