

Slots and fillers illustrated

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We are working on the Hungarian Constructicon which is accessible at <https://constructicon.hu> (username: demo, password: letssee). We would like to make it suitable for pedagogical purposes too.

The Hungarian Constructicon works the following way: the user can enter a short free text, and the system identifies the constructions in the text and shows them to the user. During this identification we use syntactic parsing, and with the help of the resulting dependency trees we are able to determine the slots and fillers involved.

One of our plans is to create an explicit and easy to understand visualization of slot-filler relations on the online user interface. In other words, we want to show the user how the constructions are interconnected, what belongs where, which construction plays the role of a filler in which slot.

The solution will be based on colouring the slot and the corresponding filler with the same colour. From the input text "take part in action" two constructions are revealed: "take part in" and "action". The plan is to mark the first one's slot on the one hand and the second one as a filler on the other with the same colour.