Reasoning as Remembering:
The Theory and Practice of CBR.

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Over the past few years, Case-Based Reasoning (CBR) has grown from a Yale-centric view of cognition to a solid sub-area that is supported by wide-spread academic research and industrial development. Unfortunately, the definition of what is and is not CBR remains seriously ambiguous. In this talk, I will look at different takes on CBR and suggest a definition that, oddly enough, doesn't include the use of "cases." In particular I will look at:

- CBR as nothing new.

- CBR as an alternative cognitive model.

- CBR as an approach to knowledge engineering.

- CBR as a new set of assumptions.

- CBR as a new set of modeling goals.

In the end, I argue that the CBR is part of a larger model of long-term *agency*. This model is distinguished by the view of agents and environments as dynamic entities that change to fit each other over time. Along with arguing for a new view of autonomous agents, this model supports the main tenant of CBR, that reasoning and learning must be linked within any intelligent system.