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~~Chapter 9: Working Memory and Cognitive Control What is Task Switching~~

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~~Guest Jim Kwik Task Switching And Cognitive Control~~

Task Switching and Cognitive Control James Grange and

George Houghton Abstract. One thing that separates human

beings from the rest of the animal world is our ability to

control behavior by referencing internal plans, goals, and

rules. This ability, which is crucial to our success in a complex

social environment, depends on the purposeful ...

Task Switching and Cognitive Control - Oxford Scholarship

The stimulus location rotated in a predictable clockwise

fashion on every trial, with the task switching when the

stimulus crossed the horizontal mid-section. Performance in

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The task-switching paradigm differentiates between proactive and reactive control processes involved in shifting between task rules (for review see Kiesel et al., 2010) and has been used to examine...

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Task switching was also associated with increased activity in a network of regions implicated in cognitive control, including lateral PFC and parietal cortex. Within this network of regions, we observed dissociations between task-selective and general purpose mechanisms.

Between-Task Competition and Cognitive Control in Task ...

Task-switching experiments are not new , but the past decade has seen a surge of interest, stimulated by the development of some novel techniques for inducing task switches and getting subjects to prepare for them , and some surprising phenomena revealed thereby, as well as by the broader growth of interest in control of cognition (e.g.

Task switching: Trends in Cognitive Sciences

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The control operation is often studied with a task-switching paradigm, where participants are asked to switch between two designated stimulus–response mappings that can be performed on a single set of stimuli (Jersild, 1927), such as categorizing an object in an image as a living or a non-living object, and categorizing it as larger or smaller than a shoebox. If the current trial requires a different stimulus–response mapping than the previous trial, the current trial constitutes a task ...

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On the basis of data from them, we propose that task switching entails at least two functionally distinct stages of executive control, goal shifting and rule activation, which are separable from the basic perceptual-motor and cognitive processes used for performing individual tasks.

Executive Control of Cognitive Processes in Task Switching
Task switching, or set-shifting, is an executive function that involves the ability to unconsciously shift attention between one task and another. In contrast, cognitive shifting is a very similar executive function, but it involves conscious (not unconscious) change in attention. Together, these two functions are subcategories of the broader cognitive flexibility concept. Task switching allows a person to rapidly and efficiently adapt to different situations.

Task switching (psychology) - Wikipedia

We identified brain regions showing sensitivity to transient aspects of task-switching cognitive control via the event-related contrast of task-switch to task-repeat. Likewise, we identified brain regions sensitive to sustained aspects of cognitive control during task switching via the state-related contrast of mixed-task to single-task. Our goal was to determine whether such sustained and transient regions could be considered functionally selective (i.e., doubly dissociated from each other).

Neural Mechanisms of Transient and Sustained Cognitive ...

This chapter provides a broad overview of task switching in general and some of the different task switching paradigms available to the researcher. It briefly discusses key empirical phenomena that are measured in these paradigms and how each is thought to be related to key cognitive control processes. It presents an overview of the subsequent

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chapters.

Task Switching and Cognitive Control: An Introduction ...

Task alternation yielded switching-time costs that increased with rule complexity but decreased with task cuing. These factor effects were additive, supporting a model of executive control that has goal-shifting and rule-activation stages for task switching. It appears that rule activation takes more time for switching from familiar to unfamiliar tasks than for switching in the opposite direction.

Executive control of cognitive processes in task switching

The dorsal ACC was found to be common to language switching and conflict monitoring in the flanker task. However, comparing a language-switching task with a conflict task confounds a number of cognitive control processes that are not related to the specific requirements of language switching.

Brain Circuit for Cognitive Control Is Shared by Task and ...

worlds leading researchers in task switching and cognitive control investigate key issues in the field from how we select the most relevant task when presented with cognitive control in vascular dementia inhibition plus switching task or rule switching represents a kind of cognitive flexibility that involves the ability to shift attention

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The task-switching paradigm does not only allow us to study the influence of postural control demands on cognitive processing with regard to cognitive flexibility (i.e., switch costs) and maintenance of concurrent task sets (i.e., mixing costs), but additionally provides the possibility to determine the influence of postural control demands on between-task interference, measured as the between-task congruency

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