

prefrontal-cortex.ga

## Description

In [mammalian brain](#) anatomy, the **prefrontal cortex (PFC)** is the [cerebral cortex](#) which covers the front part of the [frontal lobe](#). The PFC contains the [Brodmann areas](#) [BA8](#), [BA9](#), [BA10](#), [BA11](#), [BA12](#), [BA13](#), [BA14](#), [BA24](#), [BA25](#), [BA32](#), [BA44](#), [BA45](#), [BA46](#), and [BA47](#).<sup>[1]</sup>

Many authors have indicated an integral link between a person's will to live, personality, and the functions of the prefrontal cortex.<sup>[2]</sup> This brain region has been implicated in [planning complex cognitive behavior](#), personality expression, [decision making](#), and moderating social behavior.<sup>[3]</sup> The basic activity of this brain region is considered to be orchestration of thoughts and actions in accordance with internal goals.<sup>[4]</sup>

The most typical [psychological](#) term for functions carried out by the prefrontal cortex area is [executive function](#). Executive function relates to abilities to differentiate among conflicting thoughts, determine good and bad, better and best, same and different, future consequences of current activities, working toward a defined goal, prediction of outcomes, expectation based on actions, and social "control" (the ability to suppress urges that, if not suppressed, could lead to socially unacceptable outcomes).

The frontal cortex supports concrete rule learning. More anterior regions along the rostro-caudal axis of frontal cortex support rule learning at higher levels of abstraction.<sup>[5]</sup>

## Category

1. External Domains

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