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What exactly is an expanded node?



question posted about a month ago by [CCenthusiast](#)



Does this metric refer to the total nodes in the tree?

Is it incremented whenever a new node is placed in the frontier?

Thank you for your assistance



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[jmhostalet](#)



about a month ago - marked as answer 25 days ago by [rx2119](#) (Staff)



a node is expanded when it is not at goal state and therefore you have to check (expand) its neighbors

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[dkc2122](#) (Staff)



about a month ago



For each "step" of the process, you:

(1) remove a node from the frontier set.

(2) check the node against the goal node.

(3) expand the node (i.e. try to add its children to the frontier)

The **nodes_expanded** is the count of the number of nodes expanded. It is not a count of the number of nodes removed from the frontier, or added to the frontier, or checked for being the goal state, or in the tree at that time, or whatever other definition; it is simply defined as the name suggests: **the number of nodes for which you did step (3) of the process** :)

So, if you already did (1) and (2), and you get to (3) and expand the node, and for whatever reason find that it has no children, you have still "expanded" it. It's just that the result of expanding it yielded no new children.

Hope this makes things clearer!

Oh THANKS !



posted about a month ago by [ELamy](#)

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