

## Re: Grammatical Recursion

**Source:** <http://sci.tech-archive.net/Archive/sci.lang/2004-12/3431.html>

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>>>> "Florian" == Florian Laws <[fl-usenet-2004@void.s.bawue.de](mailto:fl-usenet-2004@void.s.bawue.de)> writes:

[Ackerman function]

>> To rewrite this "iteratively" would surely involve

>> hand-management of a stack, which might as well be recursion.

Florian> I does, but that only shows that Iteration is in fact

Florian> just as powerful as Recursion.

Using a stack in an iteration cheats by adding recursive power to it, thereby upgrading it to recursion. The additional power of recursion over iteration lies in the (implicit) unbounded stack.

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