

CoCoA-5 - Support #654

Rename adjoint to adjugate???

20 Jan 2015 17:02 - John Abbott

Status:	Closed	Start date:	20 Jan 2015
Priority:	Low	Due date:	
Assignee:	John Abbott	% Done:	100%
Category:	Renaming	Estimated time:	1.90 hour
Target version:	CoCoA-5.1.2 summer 2015	Spent time:	1.60 hour
Description			
I have just looked up adjoint in Wikipedia. There it says that <i>adjoint</i> is increasingly being used to mean the transpose of the matrix of complex conjugates; and that adjugate is a better name.			
I learned <i>adjoint</i> at school (a long time ago), and I think that <i>adjugate</i> is a pretty ugly word.			

History

#1 - 20 Jan 2015 17:06 - John Abbott

I had a quick search on internet, and found a discussion (in Google groups, I think) by the Sage developers on exactly this issue.

In summary *adjoint* does appear to be ambiguous at the moment: older texts use it as I learned it, more recent texts seem to use it to mean "complex conjugate transpose" (even though that already has several other (long) names such as *Hermitian conjugate*).

#2 - 20 Jan 2015 17:08 - John Abbott

I suppose adjoint should become obsolescent.

Possible new names as ClassicalAdjoint or adjugate; I suppose the latter is shorter.

Eventually adjoint will disappear from CoCoA, unless we introduce complex numbers...

#3 - 13 Mar 2015 13:55 - John Abbott

- Status changed from New to Feedback

- Assignee set to John Abbott

- % Done changed from 0 to 90

- Estimated time set to 1.90 h

After speaking to Anna about it on Skype, we decided that it is simplest to call the function `adj` (in the same way that the rank function is called `rk`).

`adjoint` has been added to `obsolescent.cpkg5`

Updated tests, examples, documentation.

#4 - 11 May 2015 14:18 - John Abbott

- Target version changed from CoCoA-5.?.? to CoCoA-5.1.2 summer 2015

#5 - 28 Jun 2015 21:00 - John Abbott

- Status changed from Feedback to Closed

- % Done changed from 90 to 100