

CoCoALib - Support #942

Which names to use? Intersection/saturation vs intersect/saturate

10 Oct 2016 21:18 - John Abbott

Status:	In Progress	Start date:	10 Oct 2016
Priority:	Normal	Due date:	
Assignee:		% Done:	20%
Category:	Renaming	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99900	Spent time:	0.75 hour
Description I notice that we have the following 2 names for functions: intersection and saturate . In CoCoA-3 and CoCoA-4 we tended to use nouns (or adjectives) for most function names; in CoCoA-5 there is a move towards verbs (<i>e.g.</i> factor). Can we be more consistent?			
Related issues:			
Related to CoCoA-5 - Design #1456: IntersectList or IntersectionList		New	06 May 2020
Related to CoCoALib - Feature #1619: Make saturate available in CoCoALib		Closed	15 Oct 2021

History

#1 - 10 Oct 2016 21:20 - John Abbott

I have put this issue under CoCoALib, but it is just as relevant to CoCoA-5.

In general my personal preference is (usually) to use verbs, but I expect there are many exceptions (*e.g.* **det**).

#2 - 10 Nov 2016 09:21 - Anna Maria Bigatti

- Related to Slug #967: Improve saturate added

#3 - 18 Mar 2024 14:10 - Anna Maria Bigatti

- Subject changed from Which names to use? Intersection vs saturate to Which names to use? Intersection/saturation vs intersect/saturate

In CoCoA-4 we had intersection and saturation. Now we have a mixture...

Singular and Macaulay use **intersect** and **sat/saturate**.

#4 - 18 Mar 2024 18:35 - John Abbott

- Status changed from New to In Progress

- % Done changed from 0 to 10

Also **IntersectionList**

#5 - 18 Mar 2024 18:44 - Anna Maria Bigatti

- % Done changed from 10 to 20

[Conversation with Robbiano]

XXXX-ation gives a commutative feeling, XXXX-ate gives and action (non-commutative) feeling.

Let's compare with other similar situations in CoCoA.

#6 - 18 Mar 2024 21:45 - John Abbott

sat is perhaps too short, and may be ambiguous with the **SAT** (satisfiability) family of functions.

I'm undecided about intersection vs intersect; I feel that intersection sounds nicer, but intersect is shorter (quicker to read & write). It would be odd to have intersect and IntersectionList.

#7 - 20 Mar 2024 15:58 - Anna Maria Bigatti

- Related to Design #1456: *IntersectList* or *IntersectionList* added

#8 - 21 Mar 2024 17:57 - Anna Maria Bigatti

- Related to Feature #1619: *Make saturate available in CoCoALib* added

#9 - 21 Mar 2024 17:57 - Anna Maria Bigatti

- Related to deleted (Slug #967: *Improve saturate*)

#10 - 22 Mar 2024 10:20 - Anna Maria Bigatti

- Target version changed from *CoCoALib-1.0* to *CoCoALib-0.99900*

I prefer to go through similar situations before changing the current names.

Make a list.

Postponing.