

CoCoALib - Design #871

Redesign ideals

26 Apr 2016 15:01 - John Abbott

Status:	New	Start date:	26 Apr 2016
Priority:	Normal	Due date:	
Assignee:		% Done:	0%
Category:	Data Structures	Estimated time:	0.00 hour
Target version:	CoCoALib-0.99880	Spent time:	0.00 hour
Description			
Review the design of ideals.			
Some points to bear in mind:			
<ul style="list-style-type: none">• an ideal should probably be immutable -- any operation which would "change" the ideal should actually produce a new ideal• while the main ideals are those in poly rings, I'd like the design to work also for ideals in ZZ (at least).			
Related issues:			
Related to CoCoALib - Bug #130: Design problem in ideals		New	15 Apr 2012
Related to CoCoA-5 - Bug #870: GBasis of product of ideals is wrong (Vadim Tr...		Closed	26 Apr 2016
Related to CoCoALib - Feature #665: Integrate Janet/Pommaret basis code		In Progress	11 Feb 2015
Related to CoCoALib - Design #550: add myResolution member field to ideal an...		New	09 May 2014
Related to CoCoALib - Feature #520: Compute inverse in quotient ring (i.e. di...		Closed	04 Apr 2014
Related to CoCoALib - Design #513: Quick/correct flag for bool3 fns		In Progress	02 Apr 2014
Related to CoCoALib - Design #455: Which sets of generators in an ideal?		New	03 Mar 2014
Related to CoCoALib - Feature #400: add myJBMill member field to ideal		New	02 Aug 2013
Related to CoCoALib - Feature #399: add myHilbertSeries member field to ideal...		New	02 Aug 2013
Related to CoCoALib - Design #316: submodule constructor different from ideal		In Progress	20 Feb 2013
Related to CoCoALib - Design #297: Modules design: brainstorming		In Progress	25 Jan 2013
Related to CoCoALib - Slug #120: LT over QQ: surprisingly slow		New	03 Apr 2012
Related to CoCoALib - Bug #114: Ideals of polynomials		In Progress	26 Mar 2012
Related to CoCoALib - Design #1767: Finalize design for ideals in CoCoALib		In Progress	31 Oct 2023

History

#1 - 26 Apr 2016 15:01 - John Abbott

- Related to Bug #130: Design problem in ideals added

#2 - 26 Apr 2016 15:08 - John Abbott

- Related to Bug #870: GBasis of product of ideals is wrong (Vadim Tropashko) --> I.myReset() added

#3 - 26 Apr 2016 15:08 - John Abbott

- Related to Feature #665: Integrate Janet/Pommaret basis code added

#4 - 26 Apr 2016 15:09 - John Abbott

- Related to Design #550: add myResolution member field to ideal and (sub)module added

#5 - 26 Apr 2016 15:10 - John Abbott

- Related to Feature #520: Compute inverse in quotient ring (i.e. division in algebraic extn) added

#6 - 26 Apr 2016 15:10 - John Abbott

- Related to Design #513: Quick/correct flag for bool3 fns added

#7 - 26 Apr 2016 15:10 - John Abbott

- Related to Design #455: Which sets of generators in an ideal? added

#8 - 26 Apr 2016 15:11 - John Abbott

- Related to Feature #400: add myJMill member field to ideal added

#9 - 26 Apr 2016 15:11 - John Abbott

- Related to Feature #399: add myHilbertSeries member field to ideal and (sub)module added

#10 - 26 Apr 2016 15:11 - John Abbott

- Related to Design #316: submodule constructor different from ideal added

#11 - 26 Apr 2016 15:11 - John Abbott

- Related to Design #297: Modules design: brainstorming added

#12 - 26 Apr 2016 15:13 - John Abbott

- Related to Slug #120: LT over QQ: surprisingly slow added

#13 - 26 Apr 2016 15:13 - John Abbott

- Related to Bug #114: Ideals of polynomials added

#14 - 22 May 2017 14:11 - Anna Maria Bigatti

- Target version set to CoCoALib-1.0

#15 - 31 Oct 2023 11:19 - Anna Maria Bigatti

- Related to Design #1767: Finalize design for ideals in CoCoALib added

#16 - 31 Oct 2023 11:23 - Anna Maria Bigatti

Original issue about the design of the ideal class: here we collect the many aspects we should consider for the final design.

#17 - 31 Oct 2023 11:24 - Anna Maria Bigatti

- Category set to Data Structures

- Target version changed from CoCoALib-1.0 to CoCoALib-0.99880

#18 - 31 Oct 2023 11:24 - Anna Maria Bigatti

- Description updated