Redesign ideals

26 Apr 2016 15:01 - John Abbott

**Status:** New  
**Start date:** 26 Apr 2016  
**Priority:** Normal  
**Assignee:**  
**Category:**  
**Target version:** CoCoALib-0.99999  
**Due date:**  
**% Done:** 0%  
**Estimated time:** 0.00 hour  
**Spent time:** 0.00 hour

**Description**

Review the design of ideals.

Some points to bear in mind:

- 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 teh 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 CoCoALib - Feature #870: GBasis of product of ideals is wrong (Vadim Tropashko)  
  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 and (sub)module  
  New 09 May 2014
- Related to CoCoALib - Feature #520: Compute inverse in quotient ring (i.e. division in algebraic extn)  
  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 and (sub)module  
  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

**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 myJBMill 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-0.99999