

# CoCoALib

	2024-4				2024-5				2024-6				2024-7				2024-8				2024-9							
	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39		
CoCoA																												
CoCoALib																												
CoCoALib - CoCoALib-0.99650 November (...)																												
Bareiss algorithm																												
Matrix determinant over ZZ																												
Replace auto_ptr in preparation (...)																												
txt2tags: double quotes wrong in (...)																												
GCD very slow																												
Rename iroot?																												
Primary Decompositon (zero-dim) (...)																												
gcd crashes (Floating point exception)																												
New function: HasPositiveGrading																												
HilbertSeries should check grading																												
NewPolyRing default indet names																												
IsPrime(0)																												
MinPolyQuot: guaranteed and ideal (...)																												
principal ideal has a Gbasis																												
SEGV: CoCoALib with Normaliz in (...)																												
New function: radical for monomial (...)																												
RingID: different values in test-output (...)																												
C++14: use nullptr																												
ThreadsafeCounter is now obsolete?																												
Release 0.99650																												
Printing for (prime) finite fields																												
Never use "using namespace .." (...)																												
New fn: FixedDivisor (formerly (...)																												
CoprimeFactorBasis: mishandles (...)																												
New function primorial																												

**Factorization mod p**

**SmoothFactor: allow limit = 1?**

**RealRoots: gives odd number of (...)**

**txt2tags: LaTeX/PDF section numbers (...)**

**New syntax for creating homomorphisms (...)**

**New syntax for NewQuotientRing**

**New function: vector of RingElem (...)**

**Rename SparsePolyOps-MonomialIdeal (...)**

**Problem with linking the library**

**New function: ctor of PPVector (...)**