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**Title word cross-reference**

$150$ [1852].  3 [1862].  $N$ [24].  $O_2$ [226].  
$p \times 64$ [164].

-Fold [24].


2 [1187].  **20/20** [1581].  **2000** [1488, 1476, 1309].  **20th** [71].  **21st** [241, 1661, 1239, 1421, 468, 1116].  **22nd** [401].

**3.0** [1650].  **3D** [1689, 331, 458].

4 [439].  **400** [918].  **47s** [1833].

5 [582].  **50th** [980].

'89 [26].

'90s [1203].  **'92** [39].  **'95** [779].  **'96** [965].  
**9X** [398, 399, 397].

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[187] Enn Tyugu. Three new-generation software environments. *Communications of the ACM*, 34(6):46–59, June 1991. CODEN CACMA2. ISSN 0001-0782 (print), 1557-7317 (electronic). URL http://www.acm.org/pubs/toc/Abstracts/0001-0782/103708.html. The system PRIZ has been under development at the Institute of Cybernetics, Tallinn, Estonia since mid-seventies. This article describes three environments of different sophistication based on this system: ExpertPRIZ, a simple expert system shell; C-PRIZ, a language integrating imperative programming (C); and NUT (New UTopic; Utopic was the initial programming language of PRIZ), an object-oriented environment.

Data elements in Utopic (attributes of objects) can be bound by both inter- and intra-object relations. These rela-
tions are used by a propositional theorem prover to generate a proof that it is possible to compute a certain datum given some other data. This (constructive) proof is used to synthesize a program which computes the datum. So PRIZ has a quite non-standard logic component: compile-time proof and program generation instead of run-time clause resolution. These technique are called Propositional Logic Programming and Structural Program Synthesis. NUT is a prototype-based (as opposed to class-based) language: any object can be used as a template (type) for a new object (and of course as a component of a new object). Limited polymorphism is supported through a generic type (any). It is notable that some of the modern programming paradigms (constraint programming, object-orientation, employing logic in computation) have been considered so early.


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