Speaking In Tongues

Basic has a familiar mathematical construction, and so is relatively easy to learn, but it is clumsy in relation to some of the other languages

Unless your home computer is a Jupiter Ace (see page 150) then it will almost certainly feature BASIC as its resident programming language. But that doesn't mean to say that you are restricted to that choice, and though BASIC is acknowledged as being a particularly easy language to learn, there are other far more suitable languages for writing specific applications. To install these on your computer it will be necessary either to replace the ROMs containing the BASIC interpreter, or to load the new language into RAM - in which case you will need a machine with a reasonable memory capacity so that there is RAM left over to contain your programs. A few home computers, such as the Sharp MZ-711, have anticipated this problem by also having the BASIC interpreter cassette loaded.



PASCAL-ENGLISH ENGLISH-PASCAL ASCAL was developed in the early 1970's as the successor to exsic. Finance of data and control structures derive from the contranvalence in our of languages and these are intended to encourage the student of approach programming in a systematic way, and to write well-structured, easily understood code. This is very desirable for developing good programming technique, but it does mean that the early states of learning programming are harder for the complete

Veloping good programming technique, but it does mean that the stages of learning programming are harder for the complete primer — in part because of the discipline that the language proses, and also because it is usually compiled rather than learpreted. Nevertheless, PASCAL programs tend to be elegant, latively quickly developed, and much easier to understand. Here is the PASCAL equivalent of the BASC program. VAR BEGIN RUNNING:-TRUE: WHILE RUNNING DO VAR PACKED

ARRAY (1...30) OF CHAR: NAME AGE.COUNT : INTEGER: PACKED ARRAY(1..3) ANSWER OFCHAR BOOLEAN: BUNNING

WRITE(What is your name?'); READLN(NAME); WRITE('and how oid are you?'); READLN(AGE); NEADLN(AGE); FOR GOUNT:=1 TO AGE DO WRITE(COUNT:3, 'Helio':10, NAME) WRITE('Want another go?'); READLN(ANSWER); IF ANSWER(1)='N

THEN RUNNING -FALSE: WRITELN ('Goodbye', Name)

COMAL-ENGLISH ENGLISH-COMAL

COMM. was developed to combine the accessibility of BASIC with the NUME was developed to compare the accessionly of each with the powerful structures and disciplined approach of each. It therefore esembles both, and may have been a model for the development of the BPC Microsoft which have attract development of the BPC Microsoft which have attract development of the BPC Microsoft attracts which have attract development of the BPC Microsoft attracts which have attract development of the BPC Microsoft attracts which have attract development of the BPC Microsoft attracts which have attract development of the BPC Microsoft attracts at the second development of the BPC Microsoft attracts at the second development of the resembles both, and may have been a model for the development of the BBC Micro's BASIC, which has almost developed into a new language; CoMAL has been very successful in school computing and in Scandinavia (where it originated), but seems unlikely to displace either of its two forebears as the introductory programming language

language. This is the "Hello" Program in COMAL

and the second second	NNING.=THUR DO HILE RUNNING DO INPUT"What's your name? ":NS INPUT"what's your name? ":A
300 400 500	REPEAT
600 700	PRINI N. HONO
800 900 1000	INPUT Want another NING - FAI
1100	ENDWHILE "NS