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# Migration Path Document: mikroBasic vs PICBasic Pro

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This document is a short overview of differences between mikroBasic and PICBasic pro, highlighting syntax issues and certain aspects that may be of interest for users. Aim of the document is not to fully analyze and make comparative test of compiler - in the end, it is up to user. The following table provides basic information.

mikroBasic

PICBasic Pro

Variable Declaration	<code>dim MyVar as byte</code>	MyVar <code>var byte</code>
Array Declaration	<code>dim days_of_the_week as byte[7]</code>	days_of_the_week <code>var byte[7]</code>
Constants	<code>Const Mice = 3</code>	Mice <code>CON 3</code>
Symbols	Supports constants, variables, single line expressions...	Supports only constants and variables
Numeric Constants	100 decimal \$100 hex (0x100 hex) %100 bin	100 decimal \$100 hex %100 bin
Multiple statement in 1 line	Not supported	Supported
Line Extension	No limit	Limited to 256 chars
Define	No need for	Manually
12-bit Support	Included	Only in Pro version
New Project Wizard	Included	Not implemented
Procedural programming	Supported	Not supported
Data Types	1-bit, signed and unsigned 8-bit, 16-bit, and 32-bit, arrays and strings	Unsigned 1-bit, 8-bit and 16-bit, and arrays
If statement	<code>if condition then</code> statement <code>End if</code>	<code>if condition then label</code> <code>endif</code> or <code>if condition then</code> statement <code>endif</code>
Do..Loop Until Statement	Supported	Not supported
Vars Address Assignment	<code>dim a as byte absolute \$20</code>	a <code>var byte \$20</code>
Type Conversion	Explicit and implicit	Not implemented
Inline Assembly	<code>asm</code> . . <code>end asm</code>	<code>asm</code> . . <code>endasm</code>
Object Files	Supported, recompiled only when needed	Not supported
Library Architecture	User expandable, open architecture	Only built-in in exe
Upgrade for new PICs	Easily by new definition file, open architecture	Dependent on compiler manufacturer
Code dependent on PIC	Very little, controlled by compiler itself	Very much, manual change
Advanced IDE features	Configurable Layout Code/Parameter Assistant Auto Complete Auto Correct Comment/Uncomment Block Syntax Highlighting	Not supported
Software Simulator	Implemented	Not implemented
Assembly Output	Readable, highlighted	Not implemented
EEPROM Editor	Implemented	Not implemented
Project Statistics	ROM, RAM, routines details (caller tree, size, position...)	Not implemented
Local Vars Mem. Sharing	Implemented	Not implemented
Price	a. \$149 b. \$99 with development system c. free version available for download (limited hex to 2K)	\$250