

# **IBM Enterprise COBOL**

**The IDENTIFICATION DIVISION**

# The Big Picture

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- ▶ Every COBOL program must begin with an IDENTIFICATION DIVISION (which may be abbreviated ID DIVISION)
  - For Object Oriented COBOL (OO COBOL) programs, the first paragraph must indicate if this is for a class, factory, object, or method - not discussed further
  - For all other COBOL programs, the first paragraph must specify the name of the program, using a PROGRAM-ID paragraph
  - Additional paragraphs are optional and may follow in any order: AUTHOR, INSTALLATION, DATE-WRITTEN, DATE-COMPILED, all contain just comments that are ignored

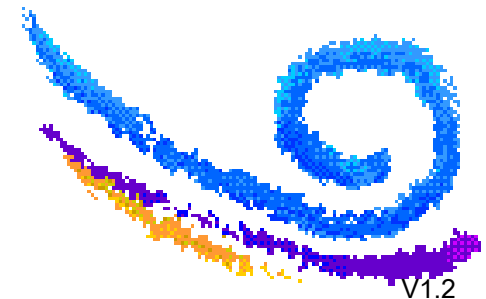
# ID DIVISION SYNTAX

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▶ {IDENTIFICATION | ID} DIVISION.

PROGRAM-ID[.] *program\_name* [RECURSIVE] [INITIAL].

- *program\_name* is an external name
  - 1-8 alphanumeric characters
  - Must not contain any dashes (hyphens)
  - Must not begin with a numeric digit
  - Will usually be forced to upper case  
[But alternatives shortly]



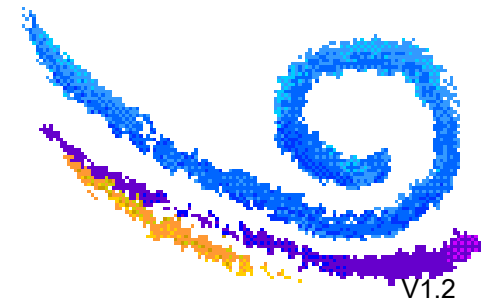
# ID DIVISION SYNTAX, 2

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▶ {IDENTIFICATION | ID} DIVISION.

PROGRAM-ID[.] *program\_name* [RECURSIVE] [INITIAL].

- RECURSIVE means the program is allowed to call itself, or to call a program that calls this program, *etc.*
- INITIAL means every time the program is entered, all storage items declared with initial values will have those values restored



# Program names

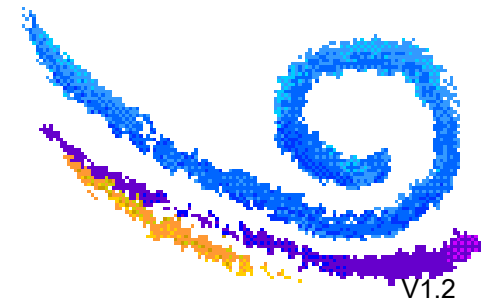
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- ▶ Actually, the way program names are handled depends on a compiler option, the PGMNAME option:
  - PGMNAME(COMPAT) - the classic; *name* is 1-30 characters (alpha, numeric, or dash or underscore), but:
    - \* dash cannot be first nor last character, underscore must not be first; must be at least one alpha
    - \* may be literal or COBOL word (if literal, may contain \$, #, @ also)
    - \* compiler forces all alpha characters to uppercase
    - \* if first character is numeric, convert to a corresponding letter
    - \* change any dashes to zeros
    - \* then truncate to 8 characters
  - PGMNAME(LONGUPPER) - all of the above, but the truncation to 8 characters is not done; only one hyphen allowed; name may be a COBOL word (max 30 characters) or a non-numeric literal (max 160 characters); \$, #, @ not allowed
  - PGMNAME(LONGMIXED) - same as longupper, but alpha characters are not forced to upper case; must be specified as a literal, may be up to 160 characters, and \$, #, @ not allowed

# Program names, 2

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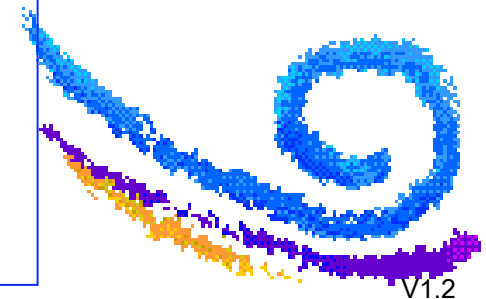
- ▶ PGMNAME(LONGUPPER) and PGMNAME(LONGMIXED) are used in the contexts of DLLs (Dynamic Link Libraries) and programs stored in the z/OS UNIX HFS (Hierarchical File System)
  - We don't discuss these situations in this part of the sessions, we just focus on the classic COBOL programs



# Program names, 3

## ► Here are some typical ID DIVISIONs:

<u>CODE</u>	<u>Known externally as:</u>
Identification division. program-id. exer01.	EXER01
-----	
ID DIVISION. PROGRAM-ID. QRZ02.	QRZ02
-----	
IDENTIFICATION DIVISION. Program-id. "Four\$ab".	FOUR\$AB
-----	
Id Division. program-id inter01 recursive.	INTER01
-----	
ID division. program-id calc-w3 initial.	CALC0W3
-----	
Id division. program-id anything-goes.	ANYTHING





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