

parser

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| COLLABORATORS |
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| | <i>TITLE :</i> parser | |
| <i>ACTION</i> | <i>NAME</i> | <i>DATE</i> |
| WRITTEN BY | | February 14, 2023 |

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| REVISION HISTORY |
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| NUMBER | DATE | DESCRIPTION | NAME |
|--------|------|-------------|------|
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Chapter 1

parser

1.1 Amiga Foundation Classes: Parser

** Parser - Original By Fabio Rotondo **

Part of the Amiga Foundation Classes

Introduction

Author's Info

Amiga Foundation Classes

History

Requires: resourceTracker

Class Base: \$00090000

NEW COMMANDS

BRIEF DESCRIPTION

parser(tags=NIL, resTracker=NIL)
Initializes the class.

arg(n)
Returns n.th argument.

clear()
Clears the class.

empty()
Checks against class emptyness.

parse(template, string)
Parses a string.

setattrrs(tags)
Set Class attributes.

version()
Returns Parser version.

Error Table

1.2 Introduction

INTRODUCTION

Parser is a class which relies on AmigaDOS ReadArgs() method to parse strings. This is a very smart approach to, for example, ARexx argument parsing and can lead to great results and incredibly flexible implementations.

With Parser class you can use all standard AmigaDOS templates to parse a string.

1.3 Author's Info

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1.4 Parser / Error Table

| VALUE | DESCRIPTION |
|-------------|-------------|
| -----+----- | |
| \$0000 | No Memory. |

1.5 Parser / History

HISTORY

V1.40 - ADD: resourceTracker support.

ADD:
empty()
method.

ADD:
clear()
method.

ADD:
setattrs()
method.

1.6 Amiga Foundation Classes: Parser/Parser()

NAME: parser(umelems=25)

SYNOPSIS: VOID parser(ULONG umelems=25)

DESCRIPTION: This is the class constructor.
You should pass the maximum number of elements to parse at every call. Default value is 25 elements which should be enough for everyday use.

INPUT: umelems - (Optional) Number of elements to parse.

RESULTS:

SEE ALSO:

1.7 Amiga Foundation Classes: Parser/Parse()

NAME: parser(template:PTR TO CHAR, str:PTR TO CHAR)

SYNOPSIS: RDArgs * parse(STRPTR template, STRPTR str)

DESCRIPTION: This method parses a string using the provided template.
Templates are standard AmigaDOS templates, such as:

"FILE/A,NAME/K,DELETE/S"

INPUT: template - String parsing template.

str - String to parse.

RESULTS: a pointer to the resulting RDArgs structure.
Just check it against NIL (or NULL) which means "error".

NOTE: The template string CANNOT contain white spaces.

SEE ALSO:
arg()

1.8 Amiga Foundation Classes: Parser/arg()

NAME: arg(ULONG elem)

SYNOPSIS: APTR arg(ULONG elem)

DESCRIPTION: This method returns the argument 'elem'.
You MUST have parsed something to get reliable results.

INPUT: elem - The (ordinal) number of the argument you wish to get.
The number starts from 0 and increments until the last
argument present in the template you provided to

parse()
method.

Ex:

"FILE/A,NAME/K,DELETE/S"

0 1 2

RESULTS: the pointer to the argument selected.

SEE ALSO:
parse()

1.9 Amiga Foundation Classes: Parser/version()

NAME: version()

SYNOPSIS: ULONG version(BOOL revision = FALSE)

DESCRIPTION: This method returns class version and revision.

INPUT: NONE.

RESULTS: this method returns TWO values: VERSION and REVISION.

SEE ALSO:

1.10 Amiga Foundation Classes: Parser/empty()

NAME: empty()

SYNOPSIS: BOOL empty(VOID)

DESCRIPTION: Use this method to know if Parser class contains

some data.

INPUT: NONE.

RESULTS: a boolean value. TRUE if some data is in.

SEE ALSO:

1.11 Amiga Foundation Classes: Parser/clear()

NAME: clear()

SYNOPSIS: VOID clear(VOID)

DESCRIPTION: This method frees all unneeded resources.

INPUT: NONE.

RESULTS: NONE.

SEE ALSO:

1.12 Amiga Foundation Classes: Parser/setattrs()

NAME: setattrs(tags)

SYNOPSIS: VOID setattrs(TagItem * tags)

DESCRIPTION: Use this method to set Class attributes.

INPUT: tags - A list of tags. Supported tags are:

PARSER_MAXNUMELEMS - Set the maximum number of arguments that the ReadArgs() can handle. Default is 25.

RESULTS: NONE.

SEE ALSO:
