Upgrading optparse code

Release 3.13.0

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October 21, 2024

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Originally, the argparse module had attempted to maintain compatibility with optparse. However, optparse was difficult to extend transparently, particularly with the changes required to support nargs= specifiers and better usage messages. When most everything in optparse had either been copy-pasted over or monkey-patched, it no longer seemed practical to try to maintain the backwards compatibility.

The argparse module improves on the optparse module in a number of ways including:

- Handling positional arguments.
- Supporting subcommands.
- Allowing alternative option prefixes like + and /.
- Handling zero-or-more and one-or-more style arguments.
- Producing more informative usage messages.
- Providing a much simpler interface for custom type and action.

A partial upgrade path from optparse to argparse:

- Replace all optparse.OptionParser.add_option() calls with ArgumentParser.add_argument() calls.
- Replace (options, args) = parser.parse_args() with args = parser.parse_args() and add additional ArgumentParser.add_argument() calls for the positional arguments. Keep in mind that what was previously called options, now in the argparse context is called args.
- Replace optparse.OptionParser.disable_interspersed_args() by using parse_intermixed_args() instead of parse_args().
- Replace callback actions and the callback_* keyword arguments with type or action arguments.
- Replace string names for type keyword arguments with the corresponding type objects (e.g. int, float, complex, etc).
- Replace optparse.Values with Namespace and optparse.OptionError and optparse.OptionValueError with ArgumentError.
- Replace strings with implicit arguments such as <code>%default</code> or <code>%prog</code> with the standard Python syntax to use dictionaries to format strings, that is, <code>%(default)s</code> and <code>%(prog)s</code>.
- Replace the OptionParser constructor version argument with a call to parser. add_argument('--version', action='version', version='<the version>').