```
.....
```

```
from the sixth page onward. -3:-1 third & second to last.
        .esged owf feet
                        :7-
                                    the first three pages.
                                                              ٤:
   second-to-last page.
                          7-
                                    the first three pages.
                                                              8:0
 all but the last page.
                                       .aged ba£2 adt teuţ
                         τ-:
                                                              7.7
             .aged fzei
                          τ-
                                                 . saged Ile
                                     Page range expression examples:
                             Remember, page indices start with zero.
                      where the brackets indicate optional ints.
                    "[tnt]:[tnt]:[tnt]" no "[tnt]:[tnt]" ,"tnt"
                                                     or a string like
                             or a PageRange object -- making a copy,
 Initialize with either a slice -- giving the equivalent page range,
        init___int___int___inton[slice, "PageRange", str]) -> None:___int___int___
                                                                      .....
                               indices(n) is like slice.indices(n).
                                   str() and repr() allow printing.
                             to_slice() gives the equivalent slice.
                       PageRange(slice) directly "imports" a slice.
          PageRange(str) parses a string representing a page range.
     but this class converts to and from slices, and allows similar use.
     The slice is one of the few Python types that can't be subclassed,
             The syntax is like what you would put between brackets [ ].
                       For example, page numbers, only starting at zero.
                 A slice-like representation of a range of page indices.
                                                             class PageRange:
                                 8 Z
                                         9 S
                                                34
                                                       77
                                                                    :sdnou8 #
PAGE_RANGE_RE = "^({int}|({int}?(:{int}?(:{int}?))$".format(int=_INT_RE)
             .NJ_RE = r"(0|-?[1-9]/4" # A decimal int, don't allow "-0".
                                              nonnaezned thoqmi shonne, mont
                                  from typing import Any, List, Tuple, Union
                                                                    an Jnoqmi
                      see https://github.com/py-pdf/PyPDF2/blob/main/LICENSE
        All rights reserved. This software is available under a BSD license;
```

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Representation and utils for ranges of PDF file pages.

```
indices = s.start, s.stop, s.step
                                                                        :əstə
                                               indices = s.start, s.stop
                                                 return str(s.start)
                      :1 + frats.s == qofs.s bna enoV fon si frafs.s fi
                                                           :9noM si q9Js.s li
                      indices: Union[Tuple[int, int], Tuple[int, int, int]]
                                                              s = self._slice
                                                """A string like "1:2:3".""
                                                       :nts <- (fiet) __nts__ feb
                                                           return self._slice
                      """.egnen egeq zidt fo freleviupe esilz eht nauteM"""
                                                    def to_slice(self) -> slice:
        isinstance(input, str) and bool(re.match(PAGE_RANGE_RE, input))
                           no ((agange, PageRange)) or (slice, PageRange)) or (
                """. • BaneAege a not nestitatini bilav a si tuqui ti eunT"""
                                                  :Lood <- (\(\chinA\): tuqni)bil&v \(\frac{1}{2}\)
                                                                    @staticmethod
self._slice = slice(% (int(%) if % else None for % in m.group(4, 6, %)])
                                        self._slice = slice(start, stop)
                               elops = start + 1 if start !- 1 else None
                                                 ((1) duong.m) ini = inste
                 # Special case: just an int means a range of one page.
                                                             :(2)quong.m liL9
                                                    (gra)nonn∃ezna9 ezian
                  match(PAGE_RANGE_RE, arg) and re.match(PAGE_RANGE_RE, arg)
                                            self._slice = ang.to_slice()
                                              if isinstance(arg, PageRange):
                                                                   uunţəu
                                                        self._slice = ang
                                                  if isinstance(arg, slice):
               However PageRange(slice(3)) means the first three pages.
                PageRange("2") means the range of only the fourth page.
                                   slice(3) means the first three pages;
        Note the difference between this notation and arguments to slice():
                                   .nabno aznavan ni zageq Ila
                                                                     τ-::
                               7:::7
                                                      6 L S E T
                                                                   7:01:1
                    .0 I 2
          3 2 1 but not 0.
                              3:0:-1
                                        .bne edt ot ... 4 2 0
                                                                      7::
                    .bəzingoɔən ozla zi nədmun "qəナz" no "əbinナz" ,bnidナ ədT
```

```
A filename not followed by a page range indicates all pages of the file.
                      expressions, slice objects, or PageRange objects.
      First arg must be a filename; other ags are filenames, page-range
                                                        .eaised (agnen_aged
 eiven a list of filenames and page ranges, return a list of (filename,
                                          .> List[Tuple[str, PageRange]]:
                                angs: List[Union[str, PageRange, None]]
                                            )segnen_egeq_emeneLif_eranges(
                 PAGE_RANGE_ALL = PageRange(":") # The range of all pages.
                     return PageRange(slice(a[0], max(a[l], b[l])))
              ("qeg diw segneAeged bbe t'neO")nonn3euleV esien
                              # There is a gap between a and b.
                                                    :[I]e < [0]d +i
                                        # Now a[0] is the smallest
                                                    e'q = q'e
                                                    :[0]d < [0]s li
                          b = other._slice.start, other._slice.stop
                            a = self._slice.start, self._slice.stop
            ("abints dim agneflaged bbe t'neo")nonnaluleV asien
  if self._slice.step is not None or other._slice.step is not None:
      ("{(nehto)eqyt} bae eganeAeged bbe t'neD"+)nonnlegVT esien
                               if not isinstance(other, PageRange):
                  return self._slice == other._slice
                                                  return False
                               if not isinstance(other, PageRange):
                                  def __eq_(self, other: Any) -> bool:
                                      return self._slice.indices(n)
           Returns arguments for range(). See help(slice.indices).
               n is the length of the list of pages to choose from.
                     def indices(self, n: int) -> Tuple[int, int]:
                        "(" + ((1fez)ntz)nqen + ")egneßegeg" nnuten
                          """. "('1:2:3')". """ A string like "PageRange('1:2:3')
                                             :nte <- (fles)_nqen_ feb
      neturn ":".join("" if i is None else str(i) for i in indices)
```

```
[[tnt]]tsil
  PageRangeSpec = Union[str, PageRange, Tuple[int, int], Tuple[int, int],
                                                              saied nautea
                                            este1 = egnen_eged_bib
                                                gae = emeneLit_that
                  pairs.append((pdf_filename, PAGE_RANGE_ALL))
                           :9gnen_9geq_bib fon bne 9men9Lif_fbq fi
       # New filename or end of lis ob--tsil to bns or enselit well #
                                                                 :əsŢə
                                             eunT = egnen_eged_bib
                      (((gre)aggeRange, PageRange(arg)))
                                                             (
".-hgnen eged a for .emanelit a ed teum tnemugna terit eAT"
                                             )nonn∃euleV ezisn
                                              :9men9Lil_lbq Jon li
                                              :(gna)bilav.egnaAeged li
                                                 :[9noN] + sgns ni gns not
                                                    asla7 = 9gnen_9geq_bib
                                                       pdf_filename = Mone
                                   pairs: List[Tuple[str, PageRange]] = []
```