NAME

anvl − commands to convert and manipulate ANVL records

SYNOPSIS

anvl [**−−format xml**] [**−−comments**] [*file* ...]
anvl [**−−format turtle**] [**−−comments**] [**−−predns** *namespace*] [**−−subjelpat** *pattern*] [*file* ...]
anvl [**−−format json**] [*file* ...]
anvl [**−−format plain**] [*file* ...]

DESCRIPTION

The **anvl** utility converts ANVL records to a variety of formats. An ANVL (A Name Value Language) record is a text-based sequence of elements ending in a blank line, where each element consists of a label, colon, and value and long values may be continued on subsequent indented lines.

This utility reads one or more *file* arguments (or the standard input if none) and writes on the standard output. The current version assumes input to be a stream of ANVL records. More information is given in the OPTIONS section.

EXAMPLES

The special label ‘‘erc’’ in front of a short form ERC (Electronic Resource Citation) record is recognized and the record is converted to long form before other processing is done.

```
$ echo 'erc: a | b | c | d' | anvl −−format json
[
  {
    "erc": "",
    "who": "a",
    "what": "b",
    "when": "c",
    "where": "d"
  }
]
```

Comments may be passed through to any output format that supports them.

```
$ echo '# A source of kernel knowledge.
> erc: Kunze, John A. | A Metadata Kernel for Electronic Permanenc
>      | 20011106 | http://journals.tdl.org/jodi/article/view/43
> ' > myfile
$ anvl −−comments −m turtle myfile
@prefix erc: <http://purl.org/kernel/elements/1.1/> .
<http://journals.tdl.org/jodi/article/view/43>
# A way to kernel knowledge.

    erc:erc """""" ;
    erc:who """Kunze, John A.""" ;
```

```
    erc:what """A Metadata Kernel for Electronic Permanence""" ;
    erc:when """20011106""" ;
    erc:where """http://journals.tdl.org/jodi/article/view/43""" .
```

The default conversion target is to the ANVL format, which does little except to expand short form ERCs and regularize some of the whitespace.

```
$ anvl myfile
erc:
who: Kunze, John A.
what: A Metadata Kernel for Electronic Permanence
when: 20011106
where: http://journals.tdl.org/jodi/article/view/43
```

The verbose option can cause extra information to be output.

```
$ echo 'a: b
> #note to self
> c: d' | anvl --verbose --comments -m xml
<recs>
  <rec>   <!-- from record 1, line 1 -->
    <a>b</a>
    <!-- #note to self -->
    <c>d</c>
  </rec>
</recs>
```

That XML conversion output can be converted back to the ANVL record,

```
erc:
a: b
c: d
```

with this style sheet

```
<xsl:template match="/">
<xsl:for-each select="recs/rec">
erc:
<xsl:for-each select="*">
<xsl:value-of select="local-name(.)"/>: <xsl:value-of select="."/>
<xsl:text>
</xsl:text>
</xsl:for-each>
</xsl:for-each>
</xsl:template>
```

OPTIONS

--comments

Preserve comments during **--format** conversion, target format permitting.

−m *format*, **−−format** *format*
Convert to the given *format*, currently one of ‘‘ANVL’’ (default), ‘‘XML’’, ‘‘Turtle’’, ‘‘JSON’’, or ‘‘plain’’. When converting to the JSON or plain formats comments are not preserved.

−h, **−−help**
Print extended help documentation.

−−listformats
Print known conversion formats.

−−man
Print full documentation.

−−predns *namespace*
For Turtle conversion, use the given *namespace* for assertion Predicates, by default, ‘‘http://purl.org/kernel/elements/1.1/’’.

−−subjelpat *pattern*
For Turtle conversion, use the given *pattern* as a regular expression to match the first instance of an ANVL element name in each input record, the corresponding value of which will become the Subject of Turtle assertions about the containing record. By default, the first element matching ‘‘^identifier$’’ or ‘‘^subject$’’ is used, unless the record appears to be an ERC (Electronic Resource Citation), in which case the first element matching ‘‘^where$’’ is used. Failing all else, the first non-empty element will be used.

−v, **−−verbose**
Show more information, such as record numbers in output comments.

−−version
Print the current version number and exit.

SEE ALSO

A Name Value Language (ANVL) <http://www.cdlib.org/inside/diglib/ark/anvlspec.pdf>

A Metadata Kernel for Electronic Permanence (pdf) <http://journals.tdl.org/jodi/article/view/43>

AUTHOR

John Kunze *jak at ucop dot edu*

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