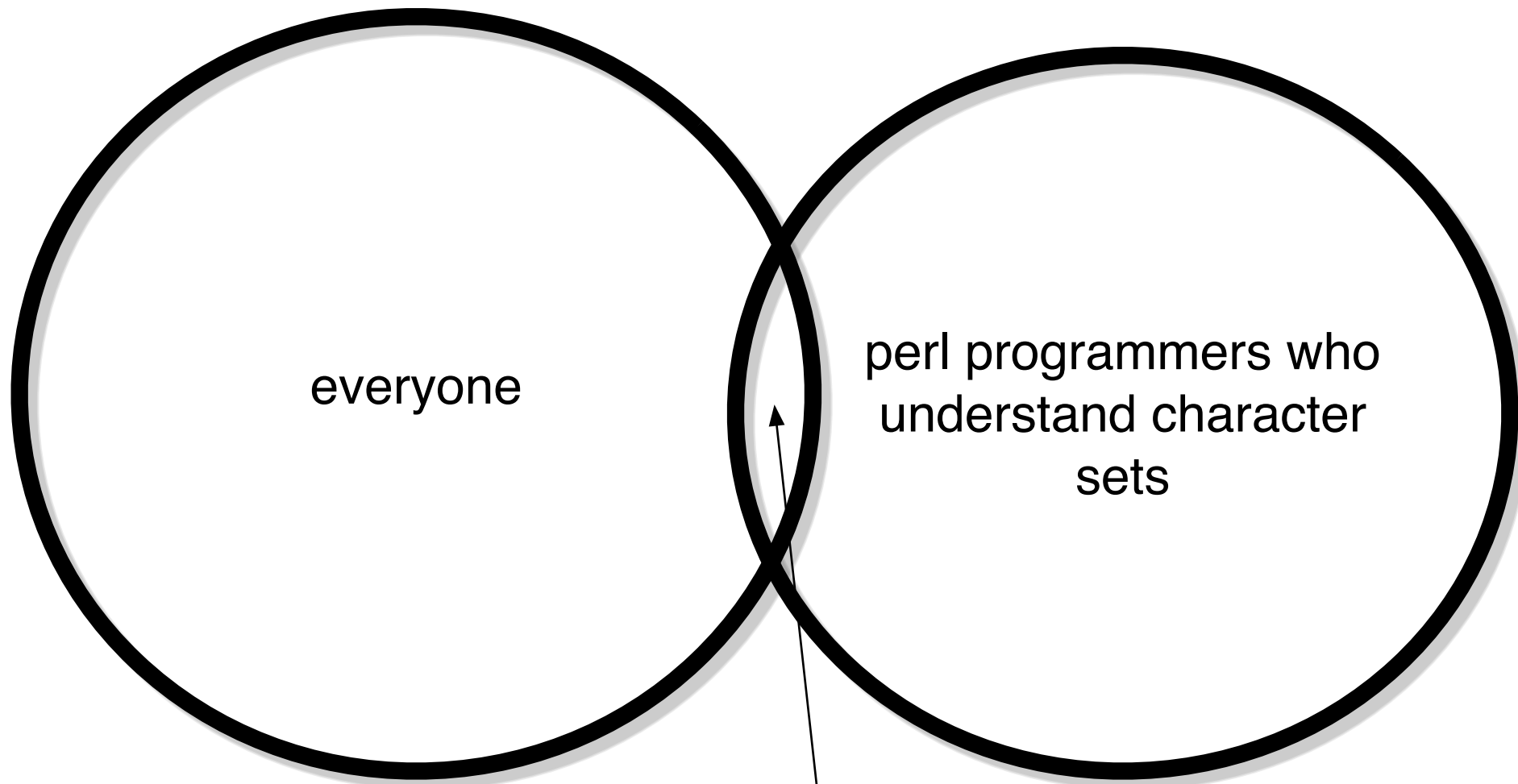


"why perl `â` utf-8"

also (bonus!)

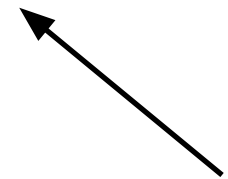
"why OmniGraffle is not a
replacement for Powerpoint"



me. and mark, sometimes.
and nick.

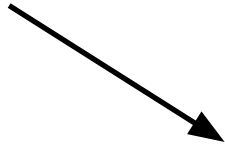


100010110



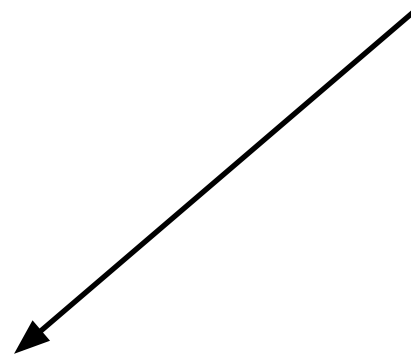
byte

character



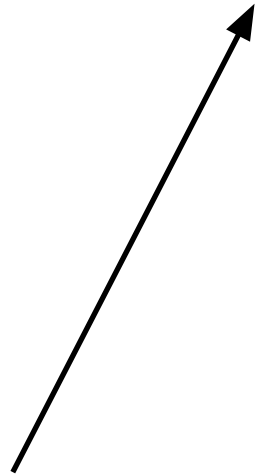
贖當

a sequence of bytes



010101 01101100 1101011 00110100

a sequence of characters



a sequence of characters

0010101 01101100 1101011 001101

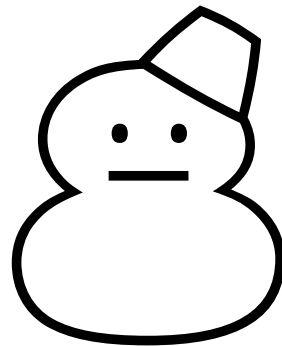
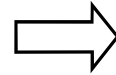
\neq

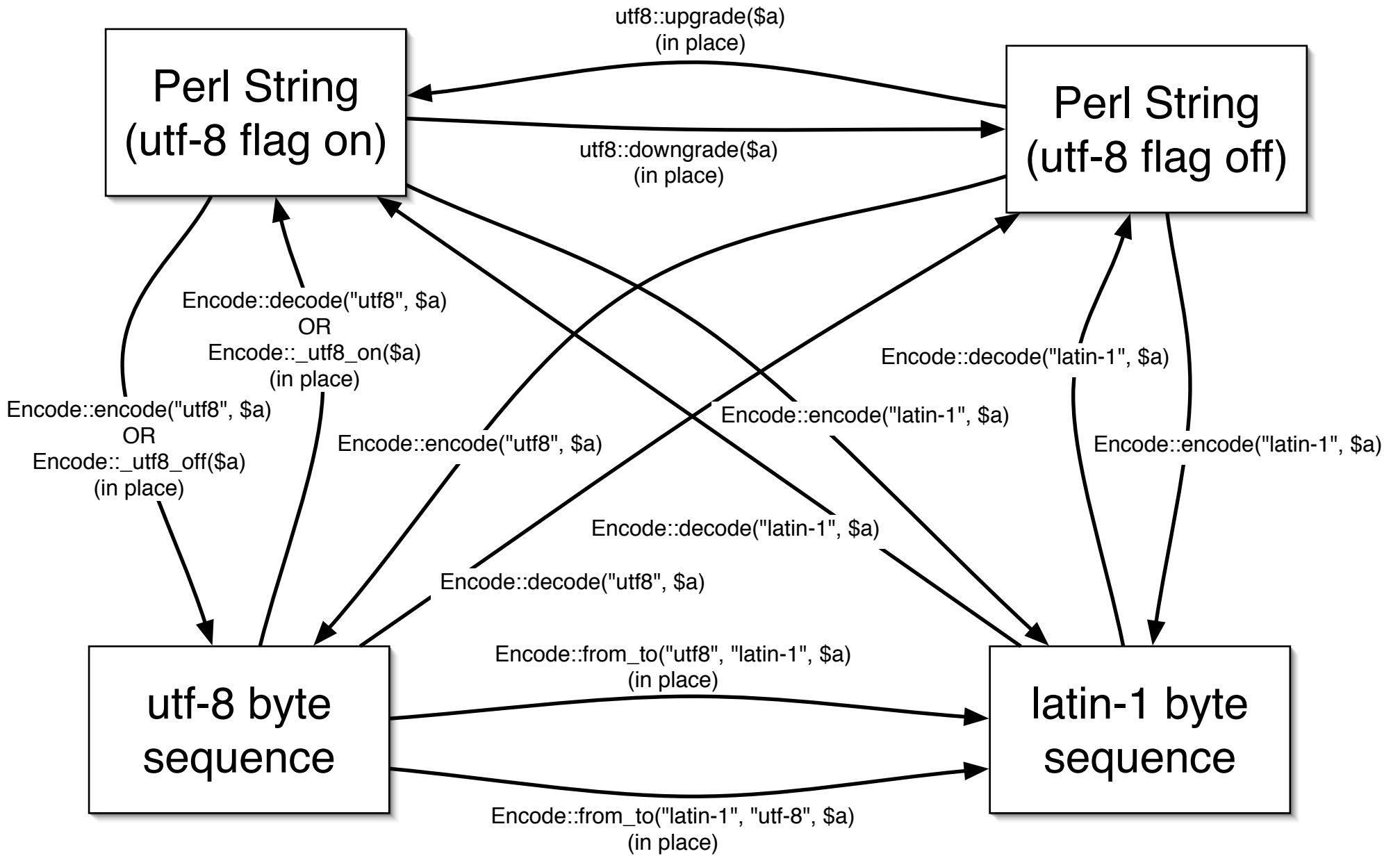


11100010 10011000 10000011

+

"that's utf-8"





latin-1 byte
sequence

bytes = code points = characters

everything Just Works

Perl String
(utf-8 flag off)

bytes = code points = characters

everything Just Works

latin-1 byte
sequence

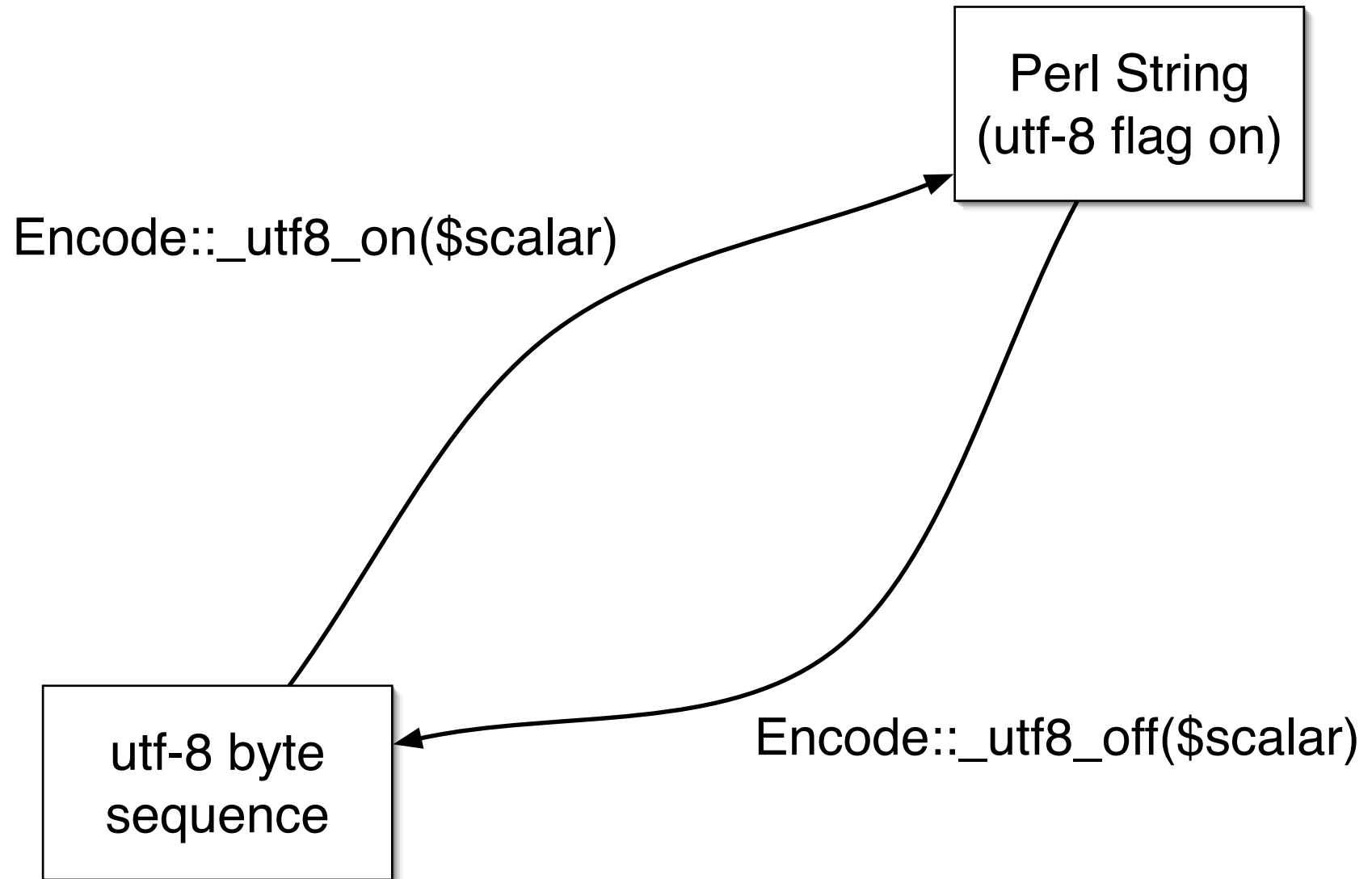
Perl String
(utf-8 flag off)

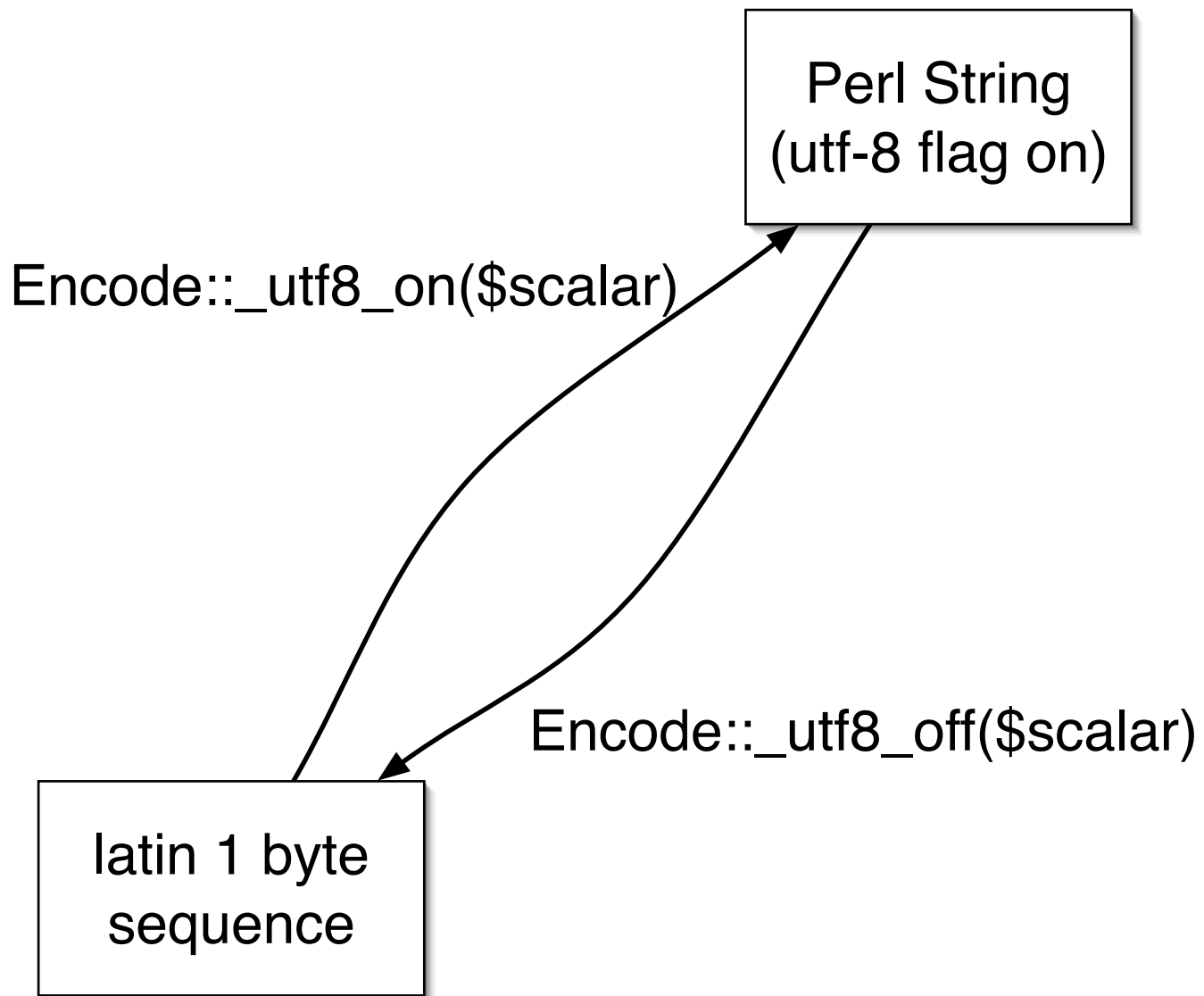
utf-8 byte
sequence

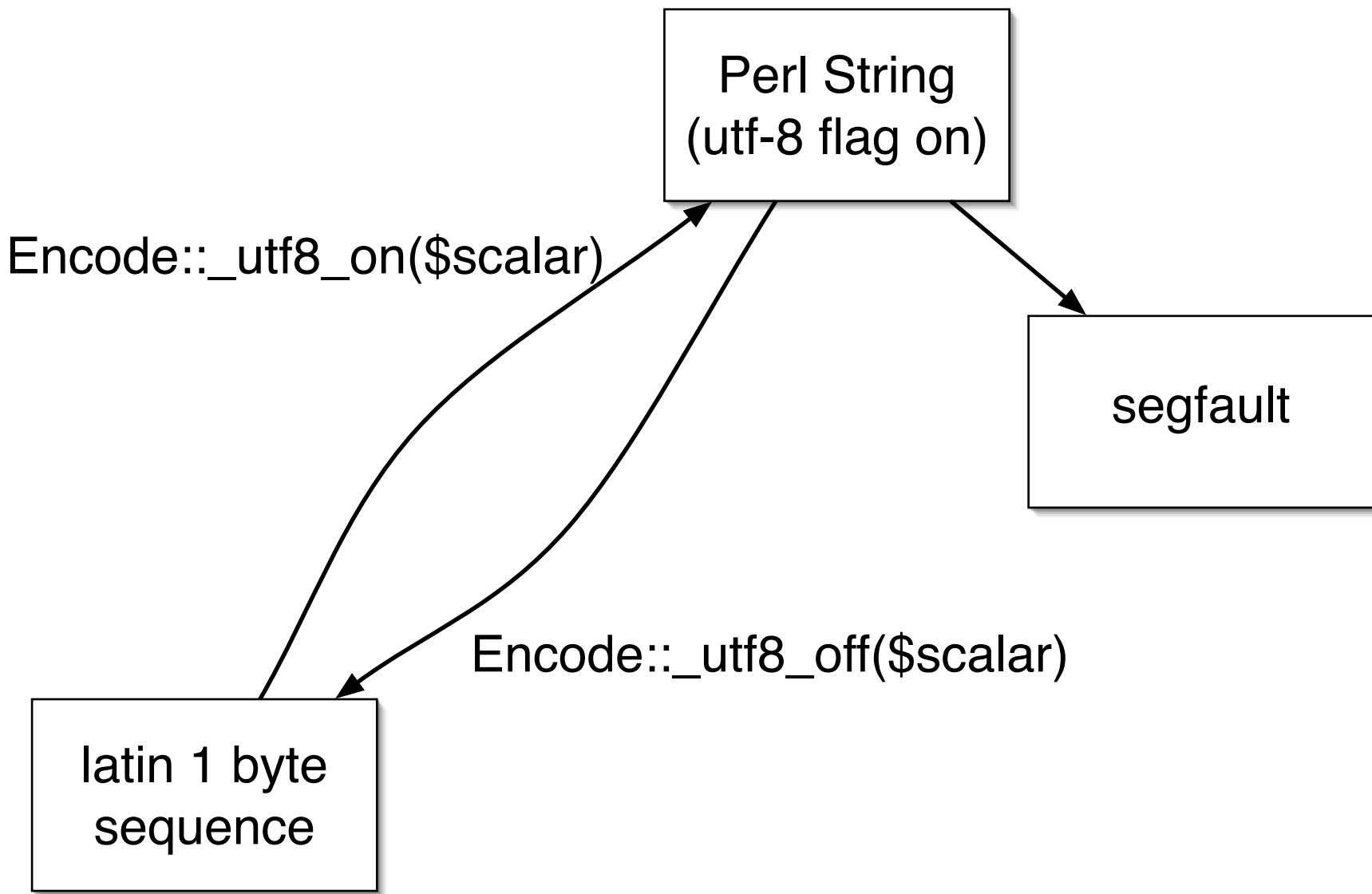
This is a sequence of bytes

Perl String
(utf-8 flag on)

This is a sequence of characters





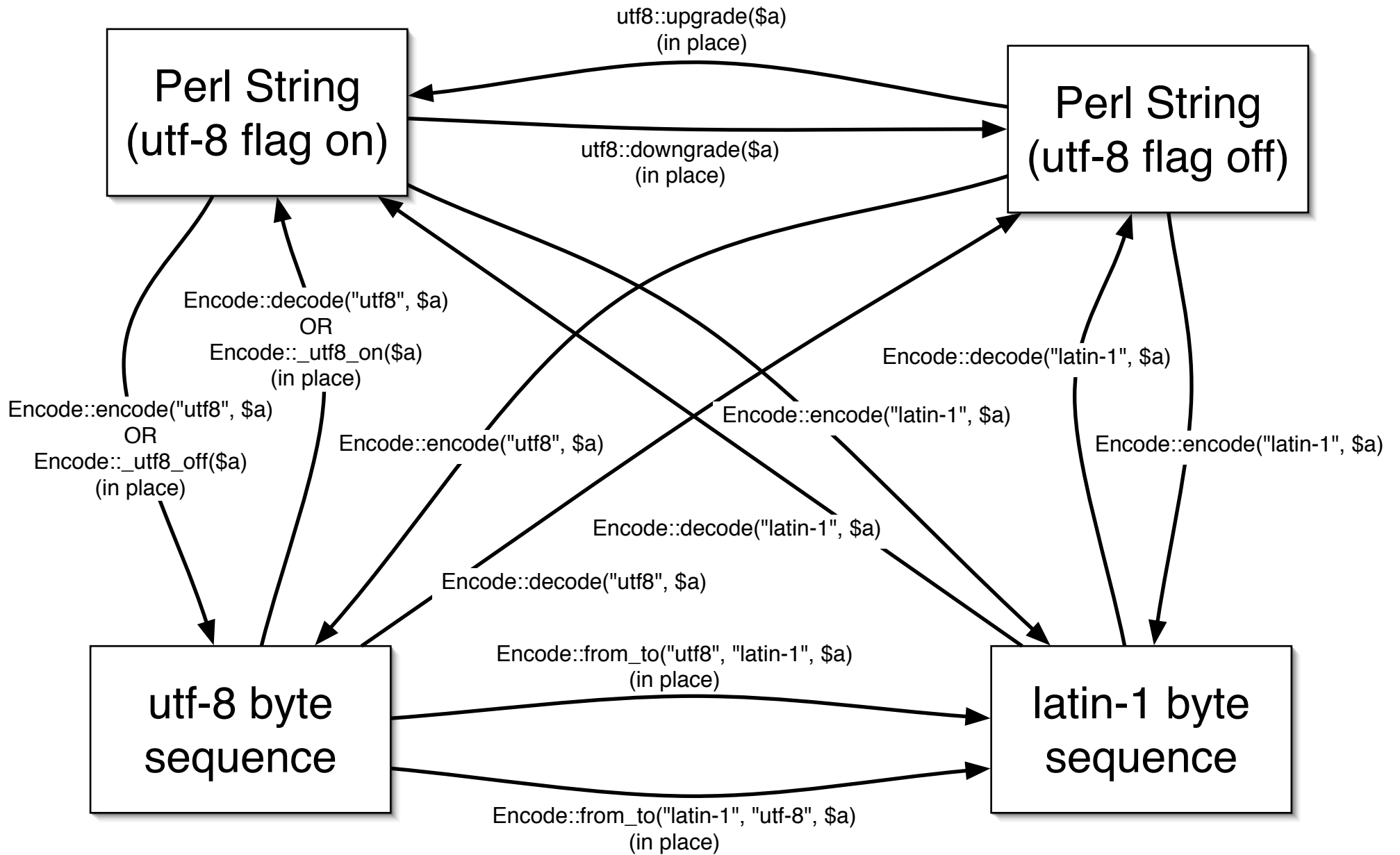


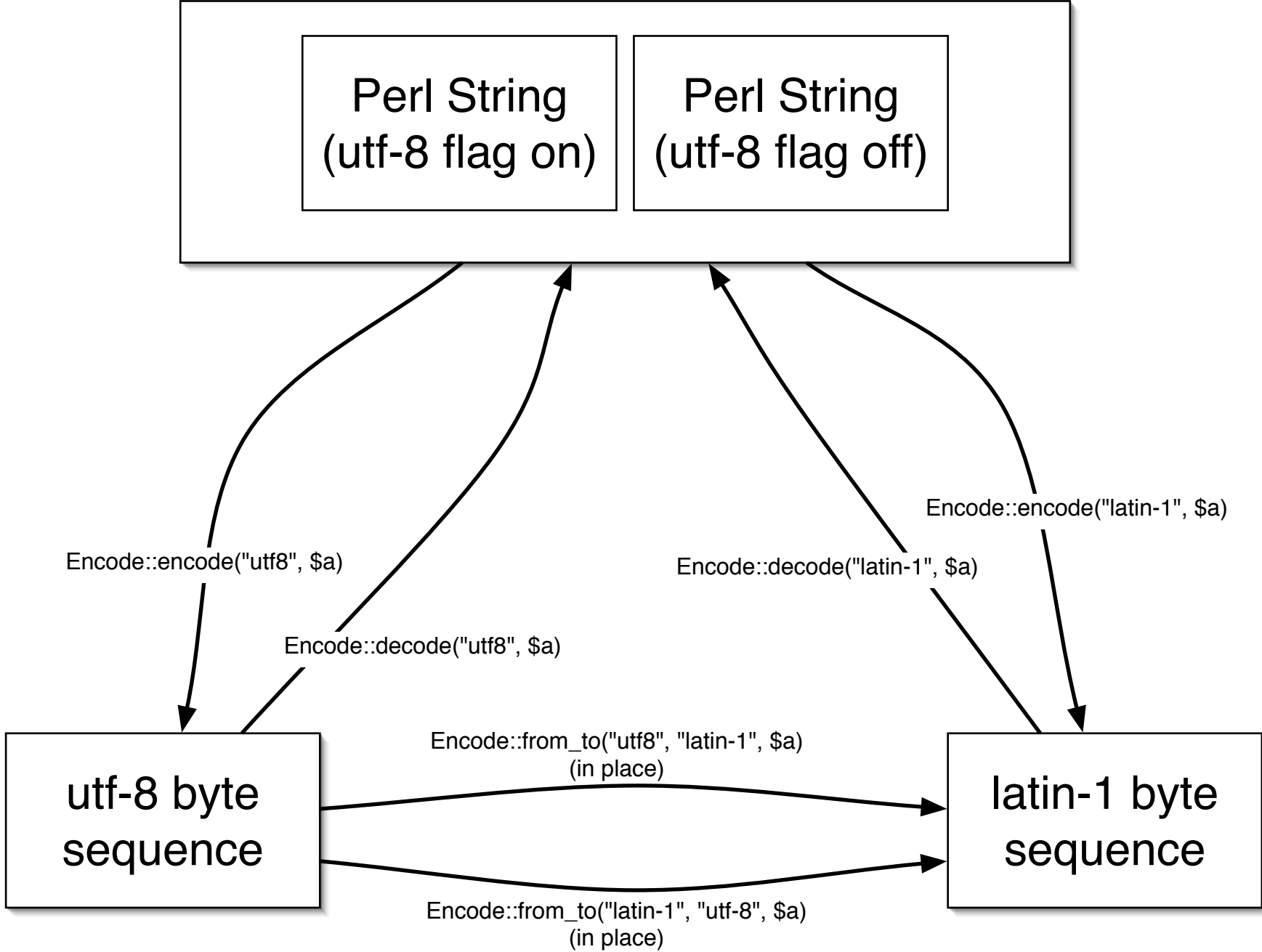
Perl String
(utf-8 flag on)

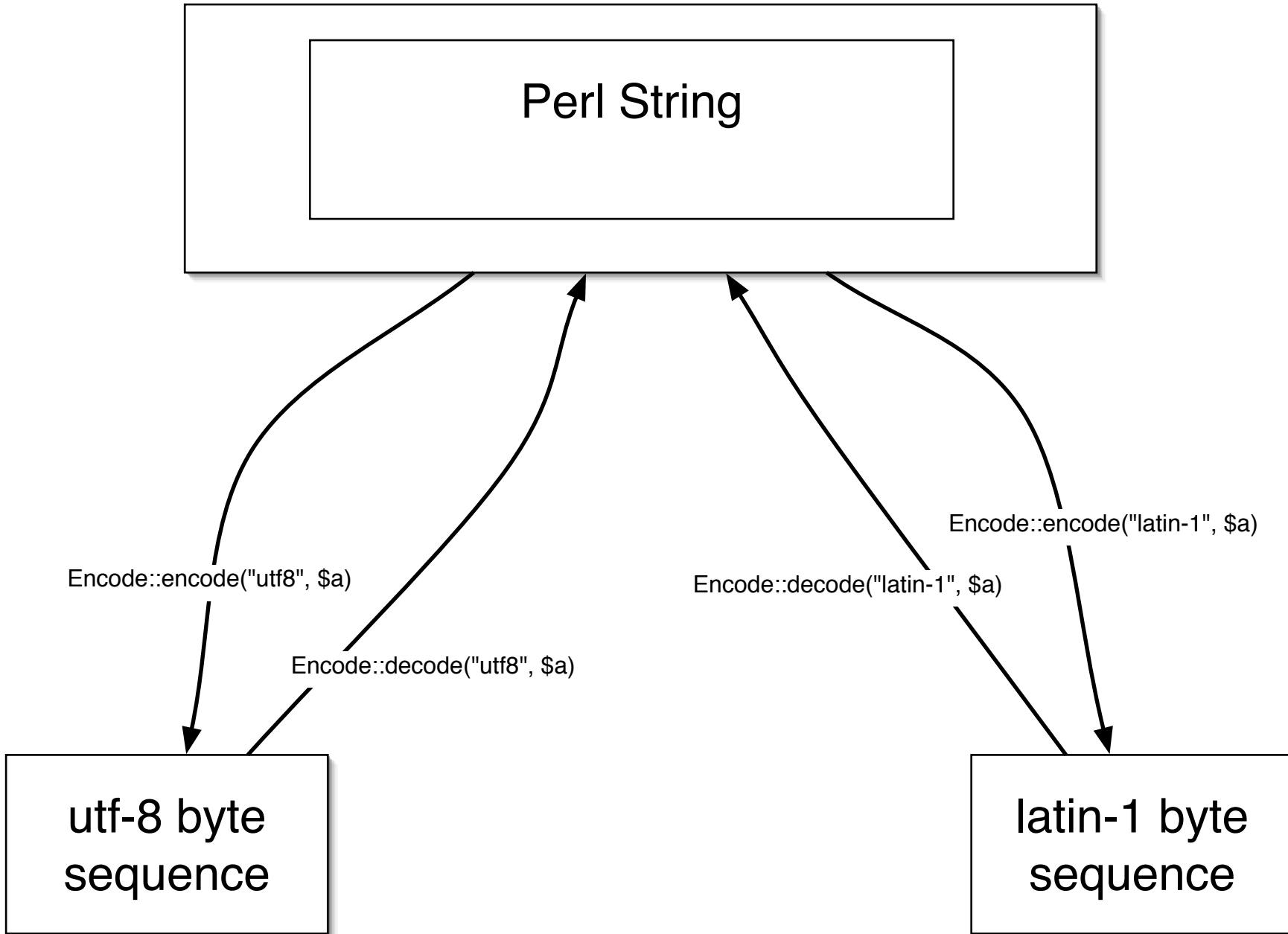
Perl String
(utf-8 flag off)

utf-8 byte
sequence

latin-1 byte
sequence





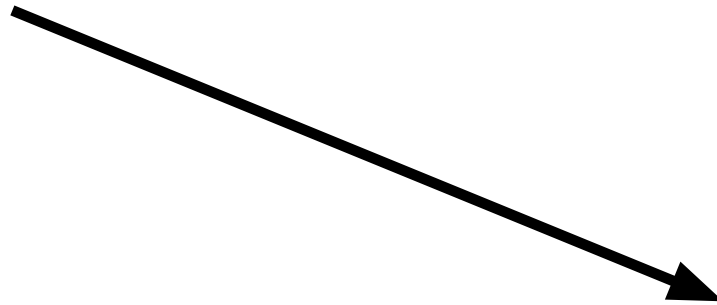


```
$bytes = Encode::encode( 'encoding', $chars )
```

```
$chars = Encode::decode( 'encoding', $bytes )
```

use Devel::Peek

not very nice



XS

SV = PV(0x8131020) at 0x811d234

REFCNT = 1

FLAGS = (POK,READONLY,pPOK)

PV = 0x812a9c8 "\351"\0

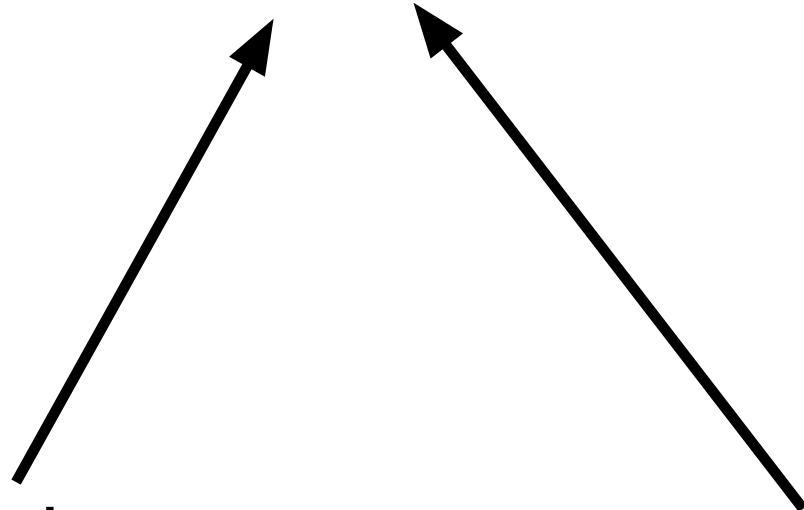
CUR = 1

LEN = 2

the bytes

the character

é



SV = PV(0x811d470) at 0x8127c38

REFCNT = 1

FLAGS = (POK,pPOK,UTF8)

PV = 0x8122ee8 "\303\251"\0 [UTF8 "\x{e9}"]

CUR = 2

LEN = 3

the bytes



the character



é

DBD::mysql

2 approaches

right

`Encode::encode`

`Encode::decode`

fast

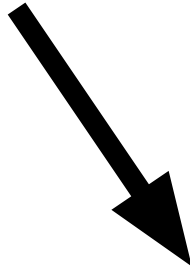
`Encode::_utf8_on`

the real correct approach

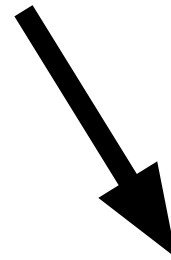
DBD::Pg

XML

XML



XML::LibXML

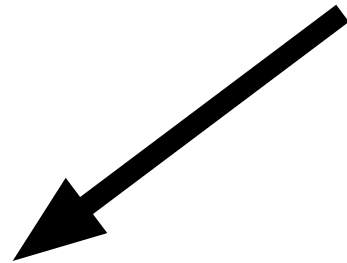


nice perl strings

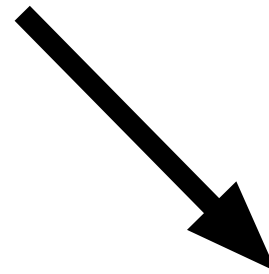
nice perl strings



XML::LibXML



XML



garbage

use java

there are very expensive
courses you can go to

