Perl 6.d (Dinali)

Coming in 2018

New in 6.d: easier subclassing of IO::Handle type

You no longer have to override every single read or write method to create a custom handle, trying to ensure you didn't miss any of them. In 6.d, simply override .WRITE and .READ/.EOF methods and you're good to go.

Here we create a custom IO::URL handle reading from which gives you plain text content from a given URL. We override only .READ and .EOF, but you can fetch the data with .slurp, .split, .comb, .lines, .get, .words, .readchars, .getc, and .read! Feeling adventurous? Assign the handle to \$*IN and use prompt(). It'll work!

```
class IO::URL is IO::Handle {
    has $.URL is required;
    has Buf $!content:
    submethod TWEAK {
        use WWW;
                  # ecosystem module for web page fetching
        use DOM::Tiny; # ecosystem module for HTML parsing
        $!content := Buf.new:
           DOM::Tiny.parse(get $!URL).all-text(:trim).encode;
        self.encoding: 'utf8';
    method READ(\bytes) { $!content.splice: 0, bytes }
    method EOF
                      { not $!content }
}
my $fh := IO::URL.new: :URL<www.perl6.org>;
# .slurp and print all the content from the website. We can use all other
# read methods, such as .lines, or .get, or .readchars. All of them work
# correctly, even though we only defined .READ and .EOF
$fh.slurp.say;
```

