

# Using Linux

## TPC NA 2017

Tom Browder [tom.browder@gmail.com]

Northwest Florida Linux User Group [nwflug.org]

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# Preliminaries

# My background

- I'm a retired USAF fighter pilot (1987-12-31), and retired engineer (2016-01-01) with ManTech International Corporation (<http://mantech.com>)
- I've used Unix and GNU/Linux and FOSS professionally for over 23 years
- I still use them daily in my personal projects as well as my work on FOSS projects
- Perl 6 is my programming language of choice (since 1993)
- My favorite hobby is supporting the development of Perl 6

- Three color calendars
- Three B and W calendars

This link will get you to some public files for the calendar:

`<https://computertechnwf.org/2017/sessions/>`

# Using Linux

Two personal projects:

- A personalized calendar
  - Programmed in Perl 5 (soon Perl 6)
  - Started in 1999, continuously improved since
  - Done annually
  - Plan to make most code public
- A Christmas card system
  - Programmed in Perl 5 (soon Perl 6)
  - Started in 1992, continuously improved since
  - Done annually
  - Plan to make most code public

Another project:

- Presentation slide maker
  - Programmed in Perl 5
  - Not original but tweaked a bit

# A Personalized Wall Calendar



## Current features:

- Federal holidays: name in red, actual date cell bordered in red
- other holidays: name in red
- birthdays: name in blue, date cell bordered in blue
- anniversaries: names in green
- special events: name in red (**not yet customizable**)
- phases of the moon
- season changes
- daylight savings time start/stop
- Federal tax dates

Planned features:

- customizable special events
- data on facing page:
  - three-month view
  - sunrise/sunset
  - moonrise/moonset
  - astronomical events
  - pictures

# Requirements

Requirements for me to produce your calendar in the current format:

- a single word, unique title for each calendar, e.g., 'name'
- specially formatted and named ASCII text files (note the dots in each name):
  - a list of lines for the cover [default is available]
    - "front-cover-words.name.txt"
  - a list of birthdays
    - "birthdays.name.txt"
  - a list of anniversaries
    - "anniversaries.name.txt"
  - a list of monthly sayings [default is available]
    - "monthly-quotes.name.txt"

Let's look at some files. . .

# A Christmas Card System

## Products:

- PDF poem insert (personal, example only)
- mailing labels in PDF for printing
  - with guidelines for testing
  - without guidelines for final printing
  - able to use blank labels remaining later
- a picture legend

# Requirements

Requirements for me to produce your mailing labels:

- A pipe-separated ASCII text file

Example (note the single lines are broken into two lines to fit the slide):

```
Spcl|Rcvd|Sent|Label|Owner|Salutation|FirstName|LastName|  
Address|Address2|City|State|Zip|Country|Suffix|MiddleName
```

```
|||Y|Missy|Dr. and Mrs.|Charles|Stewart|  
1005 Stovall Blvd.||Atlanta|GA|30319|||P.
```

Let's look at some files, including the final product. . .

# A Presentation Slide Maker



The output is the PDF you're seeing now.

A quick look at the directory structure and input files to produce my session slides. . .

We've looked at some personal projects (and one public FOSS project) done on Linux that would be somewhat harder to do on Windows (IMHO):

- Personalized calendar
- Christmas card system
- Text input presentation program

I'm happy to help with any and all.

- I am glad to help via e-mail (please mention TPC NA 2017 in the subject):
  - [[tom.browder@gmail.com](mailto:tom.browder@gmail.com)]