ERIC BAILEY

DOTFILES

Contents

```
Machines
                5
    SRUXPS
                 5
        NixOS\ configuration
        home-manager configuration
Modules
               13
    Common
                  13
    Packages
                 14
    Location
                 16
    NixOS
               18
    Darwin
                21
Software\ configuration
                               25
    Bash
              25
           25
    bat
    Browserpass \\
                    26
    bugwarrior\\
                   26
    direnv
               27
               28
    Emacs
        Init File
                   30
    Firefox
               34
    fish
            35
        Fish\ abbreviations
                            36
```

9

```
fzf
     44
Git
      45
GPG
       50
htop
       50
i\beta
     50
i3status 54
jq
     55
man 56
nixpkgs
         57
rebar 3
        57
Taskwarrior 57
   Config
           57
   on-exit Git hook
                   60
```

Glossary 63

Acronyms 65

Bibliography 67

Machines

SRUXPS

```
NixOS\ configuration
```

```
The SRUXPS configuration is an expression that takes, at least, {\sf config}, {\sf lib}, {\sf and} {\sf pkgs}.
```

```
\langle machines/sruxps/configuration.nix\ 1\rangle {\equiv}
   { config, lib, pkgs, ... }:
   let
      username = "e.bailey";
   in
   {
      \langle Import\ hardware\ config\ and\ modules\ 2 \rangle
      \langle Set\ the\ location\ to\ MSP\ 3 \rangle
      \langle Configure \ the \ LUKS \ devices \ 4 \rangle
      \langle Configure\ vm.swappiness\ 5 \rangle
      \langle Add\ the\ coretemp\ kernel\ module\ 6\rangle
      \langle Link \ some \ extra \ paths \ 7 \rangle
      ⟨Configure the file systems 8⟩
      \langle Configure\ Bluetooth\ 10 \rangle
      \langle Configure\ home-manager\ 11 \rangle
      \langle Configure\ networking\ 12 \rangle
      \langle Configure\ Nix\ 13 \rangle
      \langle Configure\ overlays\ 14 \rangle
      \langle Configure \ sudo \ 15 \rangle
      \langle Configure\ services\ 16 \rangle
      \langle Configure\ user\ 17 \rangle
   }
```

Import the hardware config and other Nix modules.

```
\langle Import\ hardware\ config\ and\ modules\ 2\rangle \equiv
                                                                            (1)
  imports = [
     <nixos-hardware/dell/xps/13-9380>
     ./hardware-configuration.nix
     ../../nix
     ../../modules/common.nix
     ../../modules/location.nix
     ../../modules/nixos.nix
     ../../modules/packages.nix
     <home-manager/nixos>
  ];
                                                                                      Describe the location module
\langle Set \ the \ location \ to \ MSP \ 3 \rangle \equiv
                                                                            (1)
  airportCode = "MSP";
   Configure the LUKS devices.
\langle Configure \ the \ LUKS \ devices \ 4 \rangle \equiv
                                                                            (1)
  boot.initrd.luks.devices = {
     cryptkey.device = "/dev/disk/by-uuid/603b64c6-8544-4b43-9b6a-7d8a08091514";
     cryptroot = {
       device = "/dev/disk/by-uuid/c4e26a93-c0c9-4680-bb79-8c0ca47df96c";
       keyFile = "/dev/mapper/cryptkey";
     };
     cryptswap = {
       device = "/dev/disk/by-uuid/565c0358-110e-4279-ba59-619cb2cc1ebf";
       keyFile = "/dev/mapper/cryptkey";
    };
  };
   https://docs.oracle.com/en/operating-systems/oracle-linux/
7/admin/section_h4v_3yt_tr.html
\langle Configure\ vm.swappiness\ 5\rangle \equiv
                                                                            (1)
  boot.kernel.sysctl = {
     "vm.swappiness" = 1;
  };
\langle Add \ the \ coretemp \ kernel \ module \ 6 \rangle \equiv
                                                                            (1)
  boot.kernelModules = [
     "coretemp"
  ];
\langle Link \ some \ extra \ paths \ 7 \rangle \equiv
                                                                            (1)
  environment.homeBinInPath = true;
  environment.pathsToLink = [
     "/lib/aspell"
     "/share/emacs/site-lisp"
     "/share/fish"
     # FIXME: "/share/icons"
  ];
```

btrfs clean boot?

```
\langle Configure \ the \ file \ systems \ 8 \rangle \equiv
                                                                     (1) 9 \triangleright
  fileSystems."/" = {
    device = "/dev/disk/by-uuid/71cfcb8a-13a9-49f0-b034-a9c8841be07b";
    fsType = "btrfs";
    options = [ "subvol=@" "rw" "noatime" "compress=zstd" "ssd" "space_cache" ];
  };
  fileSystems."/home" = {
    device = "/dev/disk/by-uuid/71cfcb8a-13a9-49f0-b034-a9c8841be07b";
    fsType = "btrfs";
    options = [ "subvol=@home" "rw" "noatime" "compress=zstd" "ssd" "space_cache" ];
  };
  fileSystems."/nix" = {
    device = "/dev/disk/by-uuid/71cfcb8a-13a9-49f0-b034-a9c8841be07b";
    fsType = "btrfs";
    options = [ "subvol=@nix" "rw" "noatime" "compress=zstd" "ssd" "space_cache" ];
  };
  fileSystems."/var" = {
    device = "/dev/disk/by-uuid/71cfcb8a-13a9-49f0-b034-a9c8841be07b";
    fsType = "btrfs";
    options = [ "subvol=@var" "rw" "noatime" "compress=zstd" "ssd" "space_cache" ];
  };
  fileSystems."/boot" = {
    device = "/dev/disk/by-uuid/54D0-C859";
    fsType = "vfat";
  };
\langle Configure \ the \ file \ systems \ 8 \rangle + \equiv
                                                                     (1) \triangleleft 8
  fileSystems."/mnt/music" = {
    device = "192.168.1.147:/volume1/homes/eric/music";
    fsType = "nfs";
    options = [ "noatime" "noauto" "rw" "x-systemd.automount" ]:
  };
\langle Configure\ Bluetooth\ 10 \rangle \equiv
                                                                         (1)
  hardware.bluetooth = {
    enable = true;
    config = {
      General = {
         Enable = "Source, Sink, Media, Socket";
      };
    };
  };
\langle Configure\ home-manager\ 11 \rangle \equiv
                                                                         (1)
  home-manager.useUserPackages = true;
  home-manager.users."${username}" = args:
    import ./home.nix (args // { inherit pkgs; });
\langle Configure \ networking \ 12 \rangle \equiv
                                                                         (1)
  networking.hostName = "MSP-EBAILEY01";
  networking.interfaces.wlp1s0.useDHCP = true;
  networking.useDHCP = false; # NOTE: Deprecated, so set it false.
```

```
\langle Configure\ Nix\ 13 \rangle \equiv
                                                                           (1)
  nix = {
    nixPath = [
       "nixos-config=/etc/nixos/configuration.nix"
       "nixpkgs-overlays=/etc/nixos/overlays"
    ];
    trustedUsers = [ "root" username ];
  };
\langle Configure \ overlays \ 14 \rangle \equiv
                                                                           (1)
  nixpkgs.overlays =
    let
       path = <nixpkgs-overlays>;
    in
    with builtins;
    map
       (n: import (path + ("/" + n)))
         filter
           (
              n: match ".*\\.nix" n \neq null
              || pathExists (path + ("/" + n + "/default.nix"))
            (attrNames (readDir path))
       )
    ++ (
       with (import <nurpkgs> { }).overlays; [
         nur
         git
         node
       ]
    );
\langle Configure \ sudo \ 15 \rangle \equiv
                                                                           (1)
  security.sudo = {
    enable = true;
    extraConfig = "
       ${username} ALL=(ALL) NOPASSWD: ALL
  };
\langle Configure \ services \ 16 \rangle \equiv
                                                                           (1)
  services.blueman.enable = true;
  services.fwupd.enable = true;
  # TODO: services.lorri.enable = true;
  services.tlp.enable = true;
  services.xserver.displayManager.lightdm.autoLogin = {
    enable = true;
    user = username;
  };
  services.xserver.monitorSection = "
    DisplaySize 406 228
```

```
\langle Configure \ user \ 17 \rangle \equiv
                                                                          (1)
  users.mutableUsers = false;
  users.users."${username}" = {
    name = username;
    hashedPassword = lib.fileContents (./. + "/secrets/${username}.hashedPassword");
    group = "users";
    extraGroups = [
       "audio"
       "disk"
       "docker"
       "http"
       "networkmanager"
       "systemd-journal"
       "video"
       "wheel"
    ];
    createHome = true;
    uid = 1001;
    home = "/home/${username}";
    shell = "/etc/profiles/per-user/${username}/bin/fish";
  };
home-manager configuration
\langle machines/sruxps/home.nix \ 18 \rangle \equiv
  { lib, pkgs, ... }:
  let
    nixpkgs-unstable = import (import ../../nix/sources.nix).nixpkgs-unstable {
       config.allowUnfree = true;
    };
  in
  {
    \langle Import\ various\ program\ configs\ 19 \rangle
    ⟨Configure the primary email account 20⟩
    \langle Install\ some\ user\ packages\ 21 \rangle
    _module.args.pkgs = lib.mkForce pkgs;
  }
```

```
\langle Import\ various\ program\ configs\ 19 \rangle \equiv
                                                                               (18)
  imports = [
     ../../config/bash.nix
     ../../config/bat.nix
     ../../config/browserpass.nix
     ../../config/bugwarrior.nix
     ../../config/direnv.nix
     ../../config/dunst
     ../../config/emacs
     ../../config/firefox.nix
     ../../config/fish
     ../../config/fzf.nix
     ../../config/git
     ../../config/gpg.nix
     ../../config/htop.nix
     # ../../config/i3
     ../../config/jq.nix
     ../../config/kitty.nix
     ../../config/man.nix
     ../../config/nixpkgs
     ../../config/rebar3.nix
     ../../config/taskwarrior
     ../../config/xmonad
  ];
                                                                                           Configure Vim
\langle Configure \ the \ primary \ email \ account \ 20 \rangle \equiv
                                                                               (18)
  accounts.email.accounts.primary = {
     address = "e.bailey@sportradar.com";
     gpg.key = "EFD6F1EDC84D2FA935E38570462054AB8B682702";
     primary = true;
     realName = "Eric Bailey";
  };
\langle Install\ some\ user\ packages\ 21 \rangle \equiv
                                                                          (18) 22 \triangleright
  home.packages = with pkgs; (
       aws-iam-authenticator
       ec2instanceconnectcli
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                    (18) \triangleleft 21 \quad 23 \triangleright
       clac
       dolphin
       lorri
       mtr
       progress
       pν
   Clementine<sup>1</sup> is a great music player.
                                                                                          ¹ https://www.clementine-player.
\langle Install\ some\ user\ packages\ 21\rangle + \equiv
                                                                    (18) \triangleleft 22 \ 25 \triangleright
       clementine # FIXME: Unfree
   I haven't used Dhall in a while, but it's still interesting.
⟨* 24⟩≡
                                                                                30 ⊳
       dhall
       dhall-json
   I might need Docker Compose<sup>2</sup> again someday, but not lately.
                                                                                          2 https://docs.docker.com/compose/
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                     (18) ⊲23 26⊳
       docker-compose
```

```
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                          (18) ⊲25 27⊳
        ghc
   iw<sup>3</sup> is useful for troubleshooting wireless issues, like in Trondheim.
                                                                                                  3 https://wireless.wiki.kernel.org/
                                                                                                   en/users/documentation/iw
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                           (18) ⊲ 26 28 ⊳
        iw
        jdk
   https://github.com/Azure/kubelogin
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                          (18) \triangleleft 27 \ 29 \triangleright
        nixpkgs-unstable.kubectx
        kubelogin
        k9s
        stern
   naal<sup>4</sup> is my tool for non-interactive AWS Azure login.
                                                                                                  4 https://github.com/yurrriq/naal
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                           (18) ⊲28 31⊳
        networkmanager-openconnect
   It would be cool to play with Next<sup>5</sup> some lazy day.
                                                                                                  5 https://next.atlas.engineer/
⟨* 24⟩+≡
                                                                                       \triangleleft 24
        next
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                          (18) \triangleleft 29 \ 32 \triangleright
        openconnect
   PulseAudio Volume Control<sup>6</sup> is useful for configuring Bluetooth
                                                                                                   6 https://freedesktop.org/software/
                                                                                                   pulseaudio/pavucontrol/
audio.
\langle \mathit{Install some user packages 21} \rangle + \equiv
                                                                          (18) ⊲31 33⊳
        pavucontrol
        renderizer
        scc
        1m_sensors
        nfs-utils
        libnotify
        dunst
        paper-icon-theme
   Try to improve battery life.
\langle Install\ some\ user\ packages\ 21 \rangle + \equiv
                                                                          (18) ⊲32 34⊳
        powertop
   More Trondheim wireless debugging...
\langle \mathit{Install some user packages} \ 21 \rangle + \equiv
                                                                                 (18) \triangleleft 33
        wirelesstools
        nixpkgs-unstable.zoom-us
     ] ++ (
        with nodePackages; [
           aws-azure-login
        1
     )
   );
```

Modules

Common

```
This module is a lambda that takes at least pkgs in its arguments.
\langle modules/common.nix 35 \rangle \equiv
                                                                         36⊳
  { pkgs, ... }:
  {
   Configure garbage collection (gc) and my personal Cachix<sup>7</sup>-based
                                                                                  7 https://cachix.org
binaryCaches.
https://yurrriq.cachix.org

    https://yurrriq-nur-packages.cachix.org

\langle modules/common.nix \ 35 \rangle + \equiv
                                                                    ⊲35 37⊳
    nix = {
       binaryCaches = [
         "https://yurrriq.cachix.org"
         "https://yurrriq-nur-packages.cachix.org"
       binaryCachePublicKeys = [
         "yurrriq.cachix.org-1:evpJ5wKluf7Q0Ccv69VkIxCOtHgubrqXlZpp3JAXLBE="
         "yurrriq-nur-packages.cachix.org-1:7kbjuGBUZcWf876g2cdelmIQXrXzOhpMVBqYOyyAv70="
       ];
       gc = {
         automatic = true;
         options = "-delete-older-than 30d";
       };
    };
   Install the Nerd Fonts<sup>8</sup> patched Iosevka<sup>9</sup>.
                                                                                  8 https://www.nerdfonts.com
                                                                                  9 http://be5invis.github.io/Iosevka
\langle modules/common.nix 35 \rangle + \equiv
                                                                    ⊲36 38⊳
    fonts = {
       enableFontDir = true;
       fonts = with pkgs; [
         (nerdfonts.override { withFont = "Iosevka"; })
       ];
    };
   Enable system-wide Bash completion.
\langle modules/common.nix \ 35 \rangle + \equiv
                                                                    ⊲37 39⊳
    programs.bash.enableCompletion = true;
```

```
\langle modules/common.nix \ 35 \rangle + \equiv
                                                                        ⊲38
Packages
\langle modules/packages.nix | 40 \rangle \equiv
                                                                        41 ⊳
  { lib, pkgs, ... }:
  let
    nixpkgs-unstable = import (import ../nix/sources.nix).nixpkgs-unstable {
      config.allowUnfree = true;
    };
  in
  {
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                   ⊲40 42⊳
    environment.systemPackages = with pkgs; (
      aspell
         aspellDicts.en
         awscli
        bind
         cachix
         coreutils
         # TODO: cquery
         curl
         expect
         gawk
         gcc
         gnumake
         gnused
         gnutar
         # TODO: graphviz
         gzip
         httpie
         # TODO: http-prompt
         # TODO: idris
         moreutils
         neofetch
         nix
         noweb
         pandoc
         prettyping
         ripgrep
         shellcheck
         shfmt
         silver-searcher # TODO: find helm-rg solution
         slack
         spotify
         stow
```

```
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                          ⊲41 43⊳
            texlive.combine {
               inherit (texlive) scheme-small
                 datetime
                 dirtytalk
                 fmtcount
                 framed
                 fvextra
                 hardwrap
                 ifplatform
                 latexmk
                 minted
                 titlesec
                 todonotes
                 tufte-latex
                 xetex
                 xstring
               inherit noweb;
            }
          )
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                          ⊲42 44⊳
          tree
          unzip
          vim
          watch
          # wipe
          nixpkgs-unstable.yq
       ]
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                          <43 45 ⊳
     ) ++ (
       with haskellPackages; [
          cabal-install
          cabal2nix
         hpack
          # FIXME: stylish-haskell
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                          <44 46 ⊳
     ) ++ (
       with nodePackages; [
          # TODO: bash-language-server
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                          ⊲ 45 47 ⊳
     ) ++ (
       with python3Packages; [
          {\it pygments}
       ]
```

```
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                           ⊲46 48⊳
     ) ++ lib.optionals stdenv.isDarwin (
          clementine
          m-cli
          sourcetree
          onyx
       ] ++ (
          with chunkwm; [
            core
            ffm
            tiling
       )
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                           <47 49 ⊳
     ) ++ lib.optionals stdenv.isLinux [
       gnome3.networkmanagerapplet
       hicolor-icon-theme
       keybase-gui
       libreoffice
       qpdfview
       playerctl
       psmisc
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                           ⊲48 50⊳
          nixpkgs-unstable.signal-desktop.override {
            spellcheckerLanguage = "en_US";
       )
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                           ⊲49 51⊳
       thunderbird
       volumeicon
       xclip
       xorg.xbacklight
     ];
\langle modules/packages.nix \ 40 \rangle + \equiv
                                                                                 ⊲50
  }
Location
\langle modules/location.nix 52 \rangle \equiv
                                                                                 53 ⊳
  { config, lib, ... }:
\langle modules/location.nix 52 \rangle + \equiv
                                                                           ⊲52 54⊳
  let
     airportCode = config.airportCode;
  in
  {
```

```
\langle modules/location.nix 52 \rangle + \equiv
                                                                     ⊲53 55⊳
    options.airportCode = lib.mkOption {
       default = "MSP";
       type = lib.types.enum [ "ATL" /* "LHR" */ "LJU" "MSP" "TRD" ];
    };
\langle modules/location.nix 52 \rangle + \equiv
                                                                     ⊲ 54 56 ⊳
    config = lib.mkMerge [
  The Sportradar office in Minneapolis.
\langle modules/location.nix 52 \rangle + \equiv
                                                                     ⊲ 55 57 ⊳
         lib.mkIf (airportCode = "MSP") {
           location = {
              latitude = 44.98;
              longitude = -93.27;
           };
           time.timeZone = "America/Chicago";
  Cook Out on Ponce de Leon Ave.
\langle modules/location.nix \; 52 \rangle + \equiv
                                                                     456 58⊳
         lib.mkIf (airportCode = "ATL") {
           location = {
              latitude = 33.77;
              longitude = -84.37;
           time.timeZone = "America/New_York";
         }
       )
  The Sportradar office in London.
\langle modules/location.nix 52 \rangle + \equiv
                                                                     457 59 ⊳
         lib.mkIf (airportCode = "LHR") {
           location = {
              latitude = 51.51;
              longitude = -0.09;
           time.timeZone = "Europe/London";
         }
       )
  The Sportradar office in Ljubljana.
\langle modules/location.nix 52 \rangle + \equiv
                                                                     458 60 ⊳
         lib.mkIf (airportCode = "LJU") {
           location = {
              latitude = 46.09;
              longitude = 14.55;
           };
           time.timeZone = "Europe/Ljubljana";
       )
```

```
The Sportradar office in Trondheim.
\langle modules/location.nix 52 \rangle + \equiv
                                                                          ⊲59 61⊳
         lib.mkIf (airportCode = "TRD") {
            location = {
              latitude = 63.43;
              longitude = 10.40;
            time.timeZone = "Europe/Oslo";
         }
       )
\langle modules/location.nix \ 52\rangle + \equiv
                                                                               ⊲60
     ];
  }
NixOS
\langle modules/nixos.nix 62 \rangle \equiv
                                                                               63 ⊳
  { pkgs, ... }:
  {
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                          ⊲62 64⊳
     imports = with (import <nurpkgs> { }).modules; [
       pass
       tomb
     ];
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                          ⊲63 65⊳
    boot = {
       cleanTmpDir = true;
       loader = {
         systemd-boot.enable = true;
         efi.canTouchEfiVariables = true;
       };
     };
\langle modules/nixos.nix \; 62\rangle + \equiv
                                                                          ⊲64 66 ⊳
     # console.font = "latarcyrheb-sun32";
     console.font = "Lat2-Terminus16";
     console.keyMap = "us";
     i18n.defaultLocale = "en_US.UTF-8";
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                          465 67⊳
     location.provider = "manual";
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                          466 68⊳
     networking.networkmanager.enable = true;
```

```
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                    ⊲67 69 ⊳
    nixpkgs.config.allowUnfree = true;
\langle modules/nixos.nix \; 62\rangle + \equiv
                                                                     ⊲68 70⊳
    programs = {
      pass = {
         enable = true;
         genphrase = true;
         git-helper = true;
         otp = true;
         update = true;
      };
      tomb = {
         enable = true;
         resize = true;
        slam = true;
      };
    };
\langle \mathit{modules/nixos.nix} \ 62 \rangle + \equiv
                                                                    ⊲69 71⊳
    services = {
      fstrim.enable = true;
      logind.lidSwitch = "hibernate";
      kbfs.enable = true;
      redshift = {
         enable = true;
         temperature.night = 2300;
      };
      unclutter = {
         enable = false; # FIXME
         extraOptions = [ "exclude-root" "ignore-scrolling" ];
         threshold = 1;
         timeout = 1;
      };
```

```
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                       ⊲70 72⊳
       xserver = {
         enable = true;
         autorun = true;
         displayManager = {
            lightdm.enable = true;
            session = [
              {
                name = "home-manager";
                manage = "window";
                start = "
                   ${pkgs.runtimeShell} $HOME/.hm-xsession &
                   waitPID=$!
              }
           ];
         };
         layout = "us";
         libinput = {
            enable = true;
            accelSpeed = "1.0";
            disableWhileTyping = true;
            naturalScrolling = false;
            tapping = true;
         };
         videoDrivers = [
            "intel"
         xkbOptions = "ctrl:nocaps,compose:ralt";
       };
     };
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                       ⊲71 73⊳
    hardware.pulseaudio = {
       enable = true;
       extraModules = [ pkgs.pulseaudio-modules-bt ];
       package = pkgs.pulseaudioFull;
     };
     sound.enable = true;
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                       ⊲72 74⊳
     system.stateVersion = "20.03";
\langle modules/nixos.nix 62 \rangle + \equiv
                                                                       ⊲73 75⊳
     virtualisation.docker.enable = true;
\langle \mathit{modules/nixos.nix} \ 62 \rangle + \equiv
                                                                            \triangleleft 74
```

Darwin

```
\langle modules/darwin.nix 76 \rangle \equiv
                                                                     77⊳
  { pkgs, ... }:
  {
\langle modules/darwin.nix 76 \rangle + \equiv
                                                                ⊲76 78⊳
    nixpkgs.config.allowUnfree = true;
\langle modules/darwin.nix 76 \rangle + \equiv
                                                                ⊲77 79⊳
    services.chunkwm = {
      enable = true;
      extraConfig = "
        chunkc core::log_file /usr/local/var/log/chunkwm.log
        chunkc core::log_level info
        chunkc tiling::rule -owner "Cisco AnyConnect Secure Mobility Client" -state float &
        chunkc tiling::rule -owner Emacs -except "^$" -state tile &
      package = pkgs.chunkwm.core;
      plugins = {
        dir = "/run/current-system/sw/bin/chunkwm-plugins/";
        list = [ "ffm" "tiling" ];
        "tiling".config = "
          chunkc set desktop_padding_step_size
                                                      0
          chunkc set desktop_gap_step_size
                                                      0
          chunkc set global_desktop_mode
                                                      bsp
          chunkc set global_desktop_offset_top
                                                      0
          chunkc set global_desktop_offset_bottom
          chunkc set global_desktop_offset_left
          chunkc set global_desktop_offset_right
                                                      0
                                                      0
          chunkc set global_desktop_offset_gap
          chunkc set bsp_spawn_left
                                                      1
          chunkc set bsp_optimal_ratio
                                                      1.618
          chunkc set bsp_split_mode
                                                      optimal
                                                      0.66
          chunkc set bsp_split_ratio
          chunkc set window_focus_cycle
                                                      all
          chunkc set mouse_follows_focus
                                                      1
          chunkc set window_region_locked
                                                      1
      };
    };
```

```
\langle modules/darwin.nix 76 \rangle + \equiv
                                                              ⊲78 80⊳
    services.skhd = {
      enable = true;
      package = pkgs.skhd;
      skhdConfig = "
        alt - space : /Applications/kitty.app/Contents/MacOS/kitty -single-instance -d ~
        ctrl + alt + cmd - up
                                : chunkc tiling::window -warp north
        ctrl + alt + cmd - right : chunkc tiling::window -warp east
        ctrl + alt + cmd - down : chunkc tiling::window -warp south
        ctrl + alt + cmd - left : chunkc tiling::window -warp west
        shift + alt + cmd - up : chunkc tiling::window -focus north
        shift + alt + cmd - right : chunkc tiling::window -focus east
        shift + alt + cmd - down : chunkc tiling::window -focus south
        shift + alt + cmd - left : chunkc tiling::window -focus west
        ctrl + alt + cmd - e : chunkc tiling::desktop -equalize
        ctrl + alt + cmd - f : chunkc tiling::window -toggle float
        ctrl + alt + cmd - m : chunkc tiling::window -toggle fullscreen
        shift + cmd - 1 : chunkc tiling::window -send-to-desktop 1
        shift + cmd - 2 : chunkc tiling::window -send-to-desktop 2
        shift + cmd - 3 : chunkc tiling::window -send-to-desktop 3
        shift + cmd - 4 : chunkc tiling::window -send-to-desktop 4
        shift + cmd - 5 : chunkc tiling::window -send-to-desktop 5
        shift + cmd - 6 : chunkc tiling::window -send-to-desktop 6
    };
                                                                             Dig through https://github.
  Set AppleKeyboardUIMode = 3 to enable full keyboard access, e.g.
                                                                             com/mathiasbynens/dotfiles/
                                                                             blob/master/.macos
tab in dialogs. Disable press-and-hold, in favor of key repeat.
\langle modules/darwin.nix 76 \rangle + \equiv
                                                              ⊲79 81⊳
    system.defaults.NSGlobalDomain = {
      AppleKeyboardUIMode = 3;
      ApplePressAndHoldEnabled = false;
      InitialKeyRepeat = 10;
      KeyRepeat = 1;
      NSAutomaticDashSubstitutionEnabled = false;
      NSAutomaticQuoteSubstitutionEnabled = false;
      NSAutomaticSpellingCorrectionEnabled = true;
      NSNavPanelExpandedStateForSaveMode = true;
      NSNavPanelExpandedStateForSaveMode2 = true;
    };
\langle modules/darwin.nix 76 \rangle + \equiv
                                                              ⊲80 82⊳
    system.defaults.dock = {
      autohide = true;
      mru-spaces = false;
      orientation = "right";
      showhidden = true;
    };
```

```
 \langle modules/darwin.nix\ 76\rangle +\equiv \qquad \qquad 481\ 83 \\  system.defaults.finder = \{ \\  AppleShowAllExtensions = true; \\  FXEnableExtensionChangeWarning = false; \\  QuitMenuItem = true; \\ \}; \\ \\ \langle modules/darwin.nix\ 76\rangle +\equiv \qquad \qquad 482\ 84 \\  system.defaults.trackpad.Clicking = true; \\ \\ \langle modules/darwin.nix\ 76\rangle +\equiv \qquad \qquad 483 \\ \}
```

$Software\ configuration$

```
Bash
```

```
Enable the Bash module, as well as autojump.
\langle config/bash.nix 85 \rangle \equiv
  { ... }:
  {
     programs.bash = {
        enable = true;
        enableAutojump = true;
     };
  }
bat
Enable the bat^{10} module.
                                                                                                10 https://github.com/sharkdp/bat
\langle config/bat.nix \ 86 \rangle \equiv
                                                                                     87⊳
  { ... }:
   {
     programs.bat = {
        enable = true;
        config = {
   For the pager, use less.
\langle config/bat.nix 86 \rangle + \equiv
                                                                               ⊲86 88⊳
          pager = "less -FR";
   Set the style to changes.
\langle \mathit{config/bat.nix}\ 86 \rangle + \equiv
                                                                               ⊲87 89⊳
          style = "changes";
   Use the Monokai Extended theme.
\langle \mathit{config/bat.nix} \ 86 \rangle + \equiv
                                                                               ⊲88 90⊳
          theme = "Monokai Extended";
\langle config/bat.nix \ 86 \rangle + \equiv
                                                                                     ⊲89
       };
     };
  }
```

Browserpass

];

```
\langle config/browserpass.nix 91 \rangle \equiv
   { pkgs, ... }:
   {
     home.packages = with pkgs; [
        browserpass
      ];
     programs.browserpass = {
        enable = true;
        browsers = [ "firefox" ];
     };
   }
bugwarrior
\langle \mathit{config/bugwarrior}.\mathit{nix} \ 92 \rangle {\equiv}
                                                                                          93⊳
   { config, pkgs, ... }:
   {
\langle \mathit{config/bugwarrior}.\mathit{nix} \ 92 \rangle + \equiv
                                                                                    ⊲92 94⊳
     home.packages = with pkgs; [
        bugwarrior
        pass
     ];
\langle \mathit{config/bugwarrior}.\mathit{nix}\ 92\rangle + \equiv
                                                                                    ⊲93 95⊳
      imports = [
        ./taskwarrior
```

```
\langle config/bugwarrior.nix 92 \rangle + \equiv
                                                                  ⊲94 96⊳
    xdg.configFile."bugwarrior/bugwarriorrc".text = "
      [general]
      targets = sportradar_jira
      taskrc = ${config.home.homeDirectory}/.taskrc
      inline_links = False
      annotation_links = True
      annotation_comments = True
      legacy_matching = False
      log.level = DEBUG
      log.file = ${config.home.homeDirectory}/log/bugwarrior.log
      annotation_length = 80
      [sportradar_jira]
      service = jira
      jira.base_uri = https://jira.sportradar.ag
      jira.username = e.bailey
      jira.password = @oracle:eval:pass jira.sportradar.ag
      jira.query = ((assignee = e.bailey OR reporter = e.bailey) OR (summary ~ e.baley OR description ~ e.bailey OR c
      jira.version = 8
      jira.add_tags = work
      jira.description_template = {{jiraid}}: {{jirasummary}}
\langle \mathit{config/bugwarrior}.\mathit{nix}\ 92 \rangle + \equiv
                                                                       ⊲95
direnv
\langle config/direnv.nix 97 \rangle \equiv
  { ... }:
  {
    programs.direnv = {
      enable = true;
      enableZshIntegration = false;
    };
  }
```

Emacs

```
\langle config/emacs/default.nix 98 \rangle \equiv
  { config, lib, pkgs, ... }:
  {
    imports = [
       ./packages.nix
    home.file.".emacs.d/init.el".source = ./init.el;
    home.sessionVariables = rec {
      EDITOR = "emacsclient -nw -a \"\"";
      GIT_EDITOR = EDITOR;
      VISUAL = "emacsclient -cna \"\"";
    };
    programs.emacs.enable = true;
    programs.fish.shellAliases = lib.mkIf (config.programs.fish.enable) rec {
      e = "emacsclient -na \"\"";
      ec = e + " -c";
      et = "emacsclient -nw -a \"\"";
    };
    services.emacs.enable = ! pkgs.stdenv.isDarwin;
  }
\langle config/emacs/packages.nix 99 \rangle \equiv
                                                                       100 ⊳
  { ... }:
  {
    programs.emacs.extraPackages = epkgs: with {
      elpa = epkgs.elpaPackages;
      melpa = epkgs.melpaPackages;
      melpaStable = epkgs.melpaStablePackages;
       # org = epkgs.orgPackages;
    }; (
\langle \mathit{config/emacs/packages.nix} \ 99 \rangle + \equiv
                                                                  ⊲99 101⊳
      with elpa; [
        mmm-mode
         rainbow-mode
       1
```

```
\langle \mathit{config/emacs/packages.nix} \ 99 \rangle + \equiv
                                                              ⊲100 102⊳
    ) ++ (
      with melpa; [
        better-defaults
        clj-refactor
        clojure-mode
        # TODO: company-lsp
        # TODO: cquery
        crux
        dhall-mode
        direnv
        dockerfile-mode
        editorconfig
        elixir-mode
        emojify
        enh-ruby-mode
        erlang
        fill-column-indicator
        fish-mode
        frames-only-mode
        gap-mode
        go-mode
        graphviz-dot-mode
        haskell-mode
        helm-ag
        # TODO: hindent
        hl-todo
        htmlize
        idris-mode
        j-mode
        lfe-mode
        kubernetes-tramp
        # TODO: lsp-haskell
        # TODO: 1sp-mode
        # TODO: lsp-ui
        magit
        markdown-mode
        multiple-cursors
        nix-mode
        nyan-mode
        paredit
        rainbow-delimiters
        robe
        rust-mode
        rvm
        smex
        tuareg
        use-package
        whitespace-cleanup-mode
        yaml-mode
    ) ++ (
```

```
\langle config/emacs/packages.nix 99 \rangle + \equiv
                                                                                ⊲101
       with melpaStable; [
          ess
        ]
     );
  }
Init File
\langle config/emacs/init.el~103 \rangle \equiv
                                                                                104⊳
  (server-start)
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                         ⊲103 105⊳
  (setq server-window 'pop-to-buffer-same-window)
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                         ⊲104 106⊳
  (column-number-mode 1)
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                         ⊲105 107⊳
  (add-to-list 'exec-path "/run/current-system/sw/bin")
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                         ⊲106 108⊳
   (menu-bar-mode 0)
   (scroll-bar-mode 0)
   (tool-bar-mode 0)
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                         ⊲107 109⊳
  (let ((font "Iosevka-10"))
     (set-face-attribute 'default t :font font)
     (set-frame-font font nil t))
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                         ⊲108 110⊳
  (require 'package)
\langle config/emacs/init.el\ 103 \rangle + \equiv
                                                                         ⊲109 111⊳
  (setq-default frames-only-mode t
                    indent-tabs-mode nil
                    package-archives nil
                    package-enable-at-startup nil)
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                         ⊲110 112⊳
   (package-initialize)
   (eval-when-compile
     (require 'use-package))
  (setq-default use-package-always-defer t
                    use-package-always-ensure t)
```

```
https://stackoverflow.com/a/18330742
\langle config/emacs/init.el\ 103 \rangle + \equiv
                                                                ⊲111 113⊳
  (let ((backup-directory (concat user-emacs-directory "backup")))
    (unless (file-exists-p backup-directory)
       (make-directory backup-directory t))
    (setq backup-directory-alist '(("" . ,backup-directory))))
  (setq auto-save-default
                                     t
         auto-save-interval
                                     200
         auto-save-timeout
                                     20
         backup-by-copying
                                     +
         delete-by-moving-to-trash t
         delete-old-versions
         kept-new-versions
                                     6
                                     2
         kept-old-versions
         make-backup-files
                                     t
         vc-make-backup-files
         version-control
                                     t)
  https://anirudhsasikumar.net/blog/2005.01.21.html Copyright
©2004-2011 Anirudh Sasikumar. All rights reserved.
\langle \mathit{config/emacs/init.el~103} \rangle + \equiv
                                                                ⊲112 114⊳
  (define-minor-mode sensitive-mode
    "For sensitive files like password lists.
  It disables backup creation and auto saving.
  With no argument, this command toggles the mode.
  Non-null prefix argument turns on the mode.
  Null prefix argument turns off the mode."
    ;; The initial value.
    nil
    ;; The indicator for the mode line. " \ensuremath{\text{\square}} "
    ;; The minor mode bindings.
    nil
    (if (symbol-value sensitive-mode)
         (progn
           ;; disable backups
           (set (make-local-variable 'backup-inhibited) t)
           ;; disable auto-save
           (if auto-save-default
               (auto-save-mode -1)))
       ;; resort to default value of backup-inhibited
       (kill-local-variable 'backup-inhibited)
       ;; resort to default auto save setting
       (if auto-save-default
           (auto-save-mode 1))))
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                ⊲113 115⊳
  (dolist (pattern '("^{\mbox{"}}\mbox{"}/\mbox{||/tmp/\\)"
                       "\\.\\(enc\\|gpg\\|hashedPassword\\)$"))
    (add-to-list 'auto-mode-alist (cons pattern 'sensitive-mode)))
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                ⊲114 116⊳
  (setq custom-file "~/.emacs.d/private/local/custom.el")
```

```
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                       ⊲115 117⊳
  (load-theme 'wombat)
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                       ⊲116 118⊳
   (global-set-key (kbd "C-x C-k") 'kill-this-buffer)
  (global-set-key (kbd "s-u") 'revert-buffer)
\langle \mathit{config/emacs/init.el~103} \rangle + \equiv
                                                                       ⊲117 119⊳
                                   "k&r"
  (setq c-default-style
         c-basic-offset
         emacs-lisp-mode-hook '(fci-mode paredit-mode
                                      rainbow-delimiters-mode)
          js-indent-level
          text-mode-hook
                                    '(text-mode-hook-identify))
\langle \mathit{config/emacs/init.el~103} \rangle + \equiv
                                                                       ⊲118 120⊳
  (setq-default fill-column 80)
   (global-visual-line-mode 1)
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                       ⊲119 121⊳
  (org-babel-do-load-languages
    'org-babel-load-languages
    '((shell . t)))
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                       ⊲120 122⊳
   (use-package avy
     :demand
     :config
     (global-set-key (kbd "C-;") 'avy-goto-char)
     (global-set-key (kbd "C-'") 'avy-goto-char-2)
     (global-set-key (kbd "M-g f") 'avy-goto-line))
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                       ⊲ 121 123 ⊳
  (use-package crux
     :demand
     :config (global-set-key (kbd "C-a") 'crux-move-beginning-of-line))
\langle config/emacs/init.el \ 103 \rangle + \equiv
                                                                       ⊲122 124⊳
   (use-package editorconfig
     :ensure t
     :config
     (editorconfig-mode 1))
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                       ⊲123 125⊳
   (use-package emojify)
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                       ⊲124 126⊳
  (use-package helm
     :demand
     :config
     (global-set-key (kbd "M-s-f") 'helm-do-grep-ag)
     (global-set-key (kbd "M-s-f") 'helm-do-grep-ag))
\langle config/emacs/init.el \ 103 \rangle + \equiv
                                                                       ⊲125 127⊳
   (use-package hl-todo
     :demand
     :config (global-hl-todo-mode t))
```

```
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                        ⊲126 128⊳
  (use-package magit
     :demand
     :config (global-magit-file-mode t))
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                        ⊲127 129⊳
  (use-package multiple-cursors
     :demand
     :config (global-set-key (kbd "C-S-c C-S-c") 'mc/edit-lines))
\langle \mathit{config/emacs/init.el~103} \rangle + \equiv
                                                                        ⊲128 130⊳
  (use-package nix-mode
     :mode ("\\.nix\\'"))
\langle \mathit{config/emacs/init.el~103} \rangle + \equiv
                                                                        ⊲129 131⊳
  (use-package noweb-mode
     :load-path "/run/current-system/sw/share/emacs/site-lisp"
     :mode ("\\.nw\\'")
     :demand)
\langle config/emacs/init.el\ 103 \rangle + \equiv
                                                                        ⊲130 132⊳
  (use-package nyan-mode
     :demand
     :config (nyan-mode 1))
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                        ⊲131 133⊳
  (use-package robe
     :demand
     :mode ("\\.rb\\'"))
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                        ⊲132 134⊳
  (use-package rvm
     :ensure t)
\langle config/emacs/init.el\ 103 \rangle + \equiv
                                                                        ⊲133 135⊳
  (use-package smex
     :demand
     :config
     (global-set-key (kbd "M-x") 'smex)
     (global-set-key (kbd "M-X") 'smex-major-mode-commands)
     (global-set-key (kbd "C-c C-c M-x") 'execute-extended-command))
\langle config/emacs/init.el~103 \rangle + \equiv
                                                                        ⊲134 136⊳
  (use-package tuareg
     :mode ("\\.ml\\'" "\\.mli\\'"))
\langle config/emacs/init.el 103 \rangle + \equiv
                                                                              ⊲135
  (use-package whitespace-cleanup-mode
     :demand
     :config (global-whitespace-cleanup-mode t))
```

```
Firefox
```

```
\langle config/firefox.nix \ 137 \rangle \equiv
  { pkgs, ... }:
  {
    programs.firefox = {
      enable = true;
      extensions = with (import <nur> { inherit pkgs; }).repos.rycee.firefox-addons; [
        browserpass-otp
        darkreader
        https-everywhere
        lastpass-password-manager
        privacy-badger
      ];
      profiles = {
        default = {
          settings = {
            # http://kb.mozillazine.org/About:config_entries
            "browser.ctrlTab.recentlyUsedOrder" = false;
            "browser.newtabpage.activity-stream.asrouter.userprefs.cfr.addons" = false;
            "browser.newtabpage.activity-stream.asrouter.userprefs.cfr.features" = false;
            "browser.newtabpage.activity-stream.feeds.section.topstories" = false;
            "browser.newtabpage.activity-stream.feeds.snippets" = false;
            # FIXME: "browser.newtabpage.activity-stream.improvesearch.topSiteSearchShortcuts.havePinned" = null;
            "browser.newtabpage.activity-stream.section.highlights.includePocket" = false;
            "browser.newtabpage.activity-stream.showSearch" = false;
            # FIXME: "browser.newtabpage.pinned" = "[]";
            # FIXME: "browser.search.defaultenginename" = "DuckDuckGo";
            # FIXME: "browser.search.defaulturl" = "https://duckduckgo.com/?q=";
            "browser.search.hiddenOneOffs" = "Google,Bing,Amazon.com,eBay,Twitter,Wikipedia (en)";
            # FIXME: git "browser.search.selectedEngine" = "DuckDuckGo";
            "browser.search.suggest.enabled" = false;
            "browser.startup.page" = 3;
            "browser.tabs.unloadOnLowMemory" = true;
            "browser.urlbar.placeholderName" = "DuckDuckGo";
            "extensions.activeThemeID" = "firefox-compact-dark@mozilla.org";
            "font.size.variable.x-western" = 12;
            "signon.rememberSignons" = false;
    };

    };
  }
```

```
fish
\langle config/fish/default.nix\ 138 \rangle \equiv
  { lib, pkgs, ... }:
  {
    imports = [
      ./abbrs.nix
      ./aliases.nix
    ];
    home = {
      packages = with pkgs; [
        autojump
      ];
      sessionVariables = {
        SHELL = "fish";
        TERMINAL = "kitty";
      };
    };
    programs.fish =
      let
        inherit (lib.strings) fileContents;
      in
      {
        enable = true;
        interactiveShellInit = fileContents ./interactiveShellInit.fish;
        promptInit = "
          ${fileContents ./sushi/fish_prompt.fish}
          ${fileContents ./sushi/fish_right_prompt.fish}
        shellInit = fileContents ./shellInit.fish;
      };
  }
```

{

};

Fish abbreviations

"abbr manages abbreviations - user-defined words that are replaced with longer phrases after they are entered.

For example, a frequently-run command like git checkout can be abbreviated to gco. After entering gco and pressing Space or Enter, the full text git checkout will appear in the command line."¹¹

```
^{11} abbr - manage fish abbreviations.
                                                                                                    URL https://fishshell.com/docs/
\langle config/fish/abbrs.nix \ 139 \rangle \equiv
                                                                                                    current/cmds/abbr.html
  { ... }:
```

```
}
```

programs.fish.shellAbbrs = {

 $\langle AWS \ Azure \ login \ abbreviation \ 140 \rangle$ (Kubernetes fish abbreviations 141) $\langle Nix \ fish \ abbreviations \ 142 \rangle$ ⟨ripgrep fish abbreviations 143⟩

NAAL¹² IS COOL AND ALL, BUT...

... it's a bad habit too. the aal abbeviation makes being not so sneaky a bit less annoying.

```
\langle AWS \ Azure \ login \ abbreviation \ 140 \rangle \equiv
                                                                                          (139)
   aal = "aws-azure-login -no-prompt";
```

kubectl is very cumbersome to type all the time. Using fish abbrevations, save some precious keystrokes. It's definitely worth the time.

```
\langle Kubernetes \ fish \ abbreviations \ 141 \rangle \equiv
                                                                       (139)
  kc = "kubectl";
  kcd = "kubectl drain -delete-local-data -ignore-daemonsets";
  kcnp = "kubectl get pods -field-selector=spec.nodeName=";
  kcx = "kubectl -context";
  kgno = "kubectl get nodes";
  kn = "kubens";
  kns = "kubens";
  kt = "stern";
  kx = "kubectx";
```

IT'S USEFUL TO RUN nix build with various flags. Why not save some keystrokes for those tasks, too?

```
\langle Nix \ fish \ abbreviations \ 142 \rangle \equiv
                                                                                (139)
  nb = "nix build";
  nbd = "nix build -dry-run";
  nbn = "nix build -no-link";
  nbo = "nix build -o";
```

12 https://github.com/yurrriq/naal

I'M NOT QUITE USED TO all the ripgrep flags yet. I'm also a lazy typist, so define some memorable abbreviations.

"Searches case insensitively if the pattern is all lowercase. Search case sensitively otherwise." 13

```
\langle ripgrep \ fish \ abbreviations \ 143 \rangle \equiv
                                                                                   (139) 144 ⊳
   rg = "rg -S";
\langle ripgrep \ fish \ abbreviations \ 143 \rangle + \equiv
                                                                            (139) ⊲143 145⊳
   rga = "rg -hidden -iglob !.git";
   rgf = "rg -F";
```

"Never print the file path with the matched lines", and "[s]uppress line numbers."14

```
\langle ripgrep \ fish \ abbreviations \ 143 \rangle + \equiv
                                                                              (139) ⊲144 146⊳
   rgin = "rg -IN";
```

```
λ rg -IN name: helmfile.d/*.yaml | sort -u
- name: cert-manager
- name: cluster-autoscaler
- name: elastalert
- name: elasticsearch-client
- name: elasticsearch-curator
- name: elasticsearch-exporter
- name: elasticsearch-master
- name: external-dns
- name: fluentd-elasticsearch
- name: hubble
- name: kibana
- name: kube-resource-report
- name: metrics-server
- name: nginx-ingress-core
- name: prometheus-operator
\langle ripgrep \ fish \ abbreviations \ 143 \rangle + \equiv
                                                                  (139) \triangleleft 145
  rgn = "rg -no-heading";
\langle config/fish/aliases.nix 147 \rangle \equiv
  { ... }:
```

{

};

}

programs.fish.shellAliases = rec {

1 = "ls -color=auto -Glah"; 11 = "ls -color=auto -Glh"; ls = "ls -color=auto -G";

pbcopy = "xclip -sel clipboard"; pbpaste = "\${pbcopy} -o";

Old Darwin habits

gpg = "gpg2";

k = "clear";

¹³ Andrew Gallant. rg - man page. URL https://www.mankier.com/1/rg

¹⁴ Andrew Gallant. rg - man page. URL https://www.mankier.com/1/rg

```
\langle \mathit{config/fish/shellInit.fish} \ 148 \rangle {\equiv}
  for p in /run/current-system/sw/bin ~/bin
      if not contains $p $fish_user_paths
           set -U fish_user_paths $p $fish_user_paths
      end
  end
  set -U fish_user_paths /run/wrappers/bin $fish_user_paths
  function fish_title
    echo "$PWD | $_" | sed "s|$HOME|~|g"
  end
\langle config/fish/interactiveShellInit.fish\ 149 \rangle \equiv
                                                                      150 ⊳
  function clone
    function \_\_update
      test -d $argv[1]; and cd $argv[1]; and git fetch -all; and git pull
    end
    function __usage
      echo "Usage: clone [username] [repository] [[destination]]"
    end
    set -local num_args (count $argv)
    if test $num_args -ge 2
      set -local user $argv[1]
      set -local repo $argv[2]
      if test num_args -eq 2
         set dest ~/src/$user/$repo
      else if test $num_args -eq 3
         set dest $argv[3]/$user/$repo
      else
         __usage
      end
      echo $dest
      git clone git@github.com:$user/$repo.git $dest; or __update $dest; or __usage
    else
      __usage
    end
  end
```

```
\langle config/fish/interactiveShellInit.fish\ 149 \rangle + \equiv
                                                                 ⊲149 151⊳
  function latest -d 'Print the latest tag (on GitHub) for a given user and repo.'
    # TODO: __usage
    set -local num_args (count $argv)
    if test $num_args -eq 2
       set -local user $argv[1]
       set -local repo $argv[2]
       http https://api.github.com/repos/$user/$repo/tags | jq '.[0].name'
    end
  end
\langle config/fish/interactiveShellInit.fish\ 149\rangle + \equiv
                                                                  ⊲150 152⊳
  command -sq aws; and command -sq jq; and \
  function describe-cert -d 'List the domains for a given ACM certificate'
      test (count $argv) -ne 1; and return
       aws acm describe-certificate -certificate-arn $argv[1] |
       jq -r '.Certificate | .SubjectAlternativeNames[]'
\langle config/fish/interactiveShellInit.fish\ 149\rangle + \equiv
                                                                 ⊲ 151 153 ⊳
  command -sq fluidsynth; and function playmidi
       fluidsynth -i ~/lib/arachno-soundfont/Arachno\ SoundFont\ -\ Version\ 1.0.sf2 $argv
  end
\langle config/fish/interactiveShellInit.fish\ 149\rangle + \equiv
                                                                  ⊲152 154⊳
  command -sq kitty; and function icat
       kitty +kitten icat $argv
  end
\langle config/fish/interactiveShellInit.fish\ 149\rangle + \equiv
                                                                 ⊲153 155⊳
  command -sq kubectl; and begin
       # TODO: Add option to print server versions too.
       function k8s::versions
           printf "kubectl %s\n" (command kubectl version -client -short)
           printf "helm %s\n" (command helm version -client -short)
           command helmfile -version
           printf "kops %s\n" (command kops version)
       end
       function kcterm -d 'Terminate a Kubernetes node'
           test (count $argv) -ne 1; and return
           kubectl get node -o jsonpath='{.spec.providerID}' $argv[1] |
           cut -d'/' -f5 |
           xargs aws ec2 terminate-instances -instance-ids
       end
  end
\langle \mathit{config/fish/interactiveShellInit.fish~149}\rangle + \equiv
                                                                  ⊲ 154 156 ⊳
  # FIXME: functions rvm >/dev/null 2>&1; and rvm default
\langle config/fish/interactiveShellInit.fish\ 149\rangle + \equiv
                                                                 ⊲ 155 157 ⊳
  set fish_greeting
```

```
\label{eq:config} $$ \langle config/fish/interactiveShellInit.fish\ 149\rangle + \equiv $$ $$ command\ -sq\ task; and\ command\ -sq\ jq; and\ function\ tj \ -d 'Open\ the\ Jira\ ticket\ associated\ with\ a\ Taskwarrior\ task'\ test\ (count\ \$argv)\ -ne\ 1;\ and\ return\ open\ (task\ \$argv[1]\ export\ |\ jq\ -r\ '.[0].jiraurl')\ end
```

```
\langle config/fish/sushi/fish\_prompt.fish\ 158 \rangle \equiv
  function fish_prompt
      set -1 code $status
      if set -q IN_NIX_SHELL
          set symbol "λΠ "
      else
          set symbol "λ "
      end
      if git::is_repo
          set -1 branch (git::branch_name ^/dev/null)
          set -l ref (git show-ref -head -abbrev | awk '{print substr($0,0,7)}' | sed -n 1p)
          if git::is_stashed
              echo -n -s (white)"^"(off)
          echo -n -s (red)"("(off)
          if git::is_dirty
              printf (white)"*"(off)
          end
          if command git symbolic-ref HEAD > /dev/null ^/dev/null
              if git::is_staged
                  printf (cyan)"$branch"(off)
                  printf (yellow)"$branch"(off)
              end
          else
              printf (dim)"$ref"(off)
          end
          for remote in (git remote)
              set -l behind_count (echo (command git rev-list $branch..$remote/$branch ^/dev/null | wc -l | tr -d " "
              set -l ahead_count (echo (command git rev-list $remote/$branch..$branch ^/dev/null | wc -l | tr -d " ")
              if test $ahead_count -ne 0; or test $behind_count -ne 0; and test (git remote | wc -1) -gt 1
                  echo -n -s " "(orange)$remote(off)
              end
              if test $ahead_count -ne 0
                  echo -n -s (white)" +"$ahead_count(off)
              end
              if test $behind_count -ne 0
                  echo -n -s (white)" -"$behind_count(off)
              end
          end
          echo -n -s (red)") "(off)
      end
      if test "$code" = 0
          echo -n -s (red)"$symbol"(off)
```

```
else
          echo -n -s (dim)"$symbol"(off)
      end
  end
\langle config/fish/sushi/fish\_right\_prompt.fish~159\rangle {\equiv}
                                                                 160 ⊳
  # _____ [ Colors ]
  function orange
      set_color -o ee5819
  function yellow
      set_color -o b58900
  end
  function red
      set_color -o d30102
  function cyan
     set_color -o 2aa198
  end
  function white
      set_color -o fdf6e3
  end
  function dim
      set_color -o 4f4f4f
  end
  function off
      set\_color - o normal
  end
```

```
\langle config/fish/sushi/fish\_right\_prompt.fish\ 159 \rangle + \equiv
                                                   ⊲159 161⊳
  function git::is_repo
      test -d .git; or command git rev-parse -git-dir >/dev/null ^/dev/null
  function git::branch_name
      git::is_repo; and begin
          command git symbolic-ref -short HEAD ^/dev/null;
          or command git show-ref -head -s -abbrev | head -n1 ^/dev/null
      end
  end
  function git::is_dirty
      git::is_repo; and not command git diff -no-ext-diff -quiet -exit-code
  end
  function git::is_staged
      git::is_repo; and begin
          not command git diff -cached -no-ext-diff -quiet -exit-code
      end
  end
  function git::is_stashed
      git::is_repo; and begin
          command git rev-parse -verify -quiet refs/stash >/dev/null
      end
  end
\langle \mathit{config/fish/sushi/fish\_right\_prompt.fish} \ 159 \rangle + \equiv
                                                             ⊲160 162⊳
         ------Г AWS ]
  function aws::current_profile
      if set -q AWS_PROFILE
          printf "$AWS_PROFILE"
      else if set -q AWS_DEFAULT_PROFILE
          printf "$AWS_DEFAULT_PROFILE"
      end
  end
\langle config/fish/sushi/fish\_right\_prompt.fish\ 159 \rangle + \equiv
                                                            ⊲161 163⊳
  # ----- [ Kubernetes ]
  function k8s::current_context
      command kubectl config current-context
  end
  function k8s::current_namespace
      command kubectl config view -minify -o jsonpath='{.contexts[0].context.namespace}'
  end
  function k8s::current_user
      command kubectl config view -minify -o jsonpath='{.users[0].name}' \
          | string replace "@sportradar.com" ""
  end
```

```
\langle \mathit{config/fish/sushi/fish\_right\_prompt.fish} \ 159 \rangle + \equiv
                                                                    ⊲162
                     ----- [ Right Prompt ]
  function fish_right_prompt
      set -1 cwd (basename (prompt_pwd))
       if git::is_repo
           set root_folder (command git rev-parse -show-toplevel ^/dev/null)
           set parent_root_folder (dirname $root_folder)
           set cwd (echo $PWD | sed -e "s|$parent_root_folder/||")
       end
       printf (yellow)"("(dim)$cwd(yellow)") "(off)
       set -l aws_profile (aws::current_profile)
      test -n "$aws_profile";
       and printf (dim)"{"(yellow)(aws::current_profile)(dim)"} "(off)
       command -sq kubectl; and begin
           if [ "e.bailey" = (k8s::current_user) ]
               printf (dim)"["(off)
           else
               printf (red)"["(off)
           end
           printf (yellow)(k8s::current_context)(off)
           set -1 k8s_namespace (k8s::current_namespace)
           test -n "$k8s_namespace";
           and printf (dim)"/"(yellow)"$k8s_namespace"(off)
           if [ "e.bailey" = (k8s::current_user) ]
               printf (dim)"] "(off)
           else
               printf (red)"] "(off)
           end
       end
       printf (dim)(date +%H(yellow):(dim)%M(yellow):(dim)%S)(off)
  end
fzf
\langle config/fzf.nix 164 \rangle \equiv
  { ... }:
  {
    programs.fzf = {
      enable = true;
       enableZshIntegration = false;
    };
  }
```

Git

```
\langle \mathit{config/git/default.nix}\ 165 \rangle {\equiv}
  { config, lib, pkgs, ... }:
  {
     imports = [
       ./aliases.nix
       ./config.nix
       ./packages.nix
     ];
    programs.git = {
       enable = true;
       ignores = [
         "*<sub>~</sub>"
         ".DS_Store"
       ];
      lfs.enable = true;
     } // (
       with config.accounts.email.accounts.primary; \{
         signing.key = gpg.key;
         userEmail = address;
         userName = realName;
      }
    );
  }
```

```
\langle \mathit{config/git/packages.nix}\ 166 \rangle {\equiv}
  { lib, pkgs, ... }:
    home.packages = with pkgs; (
        diff-pdf
         git
         {\tt git-lfs}
         github-cli
         kdiff3
         nix-prefetch-git
         {\tt nix-prefetch-github}
         sops
       ] ++ (
         lib.optionals pkgs.stdenv.isLinux [
           # git-cola
         ]
       ) ++ (
         with gitAndTools; [
           git-crypt
           # gitflow
           hub
           lab
       ) ++ (
         with nodePackages; [
           codeowners
           diff-so-fancy
      )
    );
  }
```

```
\langle config/git/config.nix 167 \rangle \equiv
  { config, pkgs, ... }:
  {
    programs.git.extraConfig = {
      color = {
        diff-highlight = {
          oldNormal = "red bold";
          oldHighlight = "red bold 52";
          newNormal = "green bold";
          newHighlight = "green bold 22";
        };
        diff = {
          meta = 227;
          frag = "magenta bold";
          commit = "227 bold";
          old = "red bold";
          new = "green bold";
          whitespace = "red reverse";
        };
        status = {
          added = "green";
          changed = "yellow";
          untracked = "cyan";
        };
      };
      commit.template = "${config.xdg.dataHome}/git/commit.template";
      core.pager = "diff-so-fancy | less -tabs=4 -RFX";
      credential = {
        helper = "${pkgs.gitAndTools.pass-git-helper}/bin/pass-git-helper";
        useHttpPath = true;
      };
      diff = {
        sopsdiffer = {
          textconv = "sops -d";
        };
      };
      difftool = {
        pdfdiffer.cmd = "diff-pdf -view \"$LOCAL\" \"$REMOTE\"";
        prompt = false;
        trustExitCode = true;
      };
      pull.ff = "only";
      rerere.enabled = true;
      ui.color = true;
```

```
48 DOTFILES
```

```
};

xdg.configFile."pass-git-helper/git-pass-mapping.ini" = {
   source = ./git-pass-mapping.ini;
};

xdg.dataFile."git/commit.template" = {
   source = ./commit.template;
};
}
```

```
\langle config/git/aliases.nix \ 168 \rangle \equiv
  { config, lib, ... }:
  {
    programs.fish.shellAbbrs = lib.mkIf (config.programs.fish.enable) {
      g = "git";
      gd = "git d";
      gdc = "git dc";
      gs = "git st";
    programs.git.aliases = rec {
      ap = "add -p";
      bm = "branch -merged";
      bnm = "branch -no-merged";
      ca = "commit -amend";
      cam = "${ca} -m";
      can = "${ca} -no-edit";
      cans = "${can} -S";
      cas = "${ca} -S";
      casm = "${cas} -m";
      cm = "commit -m";
      cnm = "commit -nm";
      co = "checkout";
      cob = "${co} -b";
      cs = "crypt status";
      cse = "crypt status -e";
      csm = "commit -S -m";
      csu = "crypt status -u";
      d = "diff";
      dc = "diff -cached";
      ds = "diff -stat";
      ffco = "flow feature checkout";
      ffr = "flow feature rebase";
      ffs = "flow feature start";
      frf = "flow release finish";
      frfs = "flow release finish -s";
      frs = "flow release start";
      r = "reset";
      rb = "rebase";
      rba = "rebase -abort";
      rbc = "rebase -continue";
      rbi = "rebase -interactive";
      rbs = "rebase -skip";
      rest = "reset";
      rh = "reset -hard";
      sa = "stash apply";
      sk = "stash -keep-index";
      sl = "stash list";
      sp = "stash pop";
      spa = "stash -patch";
      ss = "stash save";
      st = "status -s";
      stat = "status";
      tree = "log -all -graph -oneline";
```

```
};
  }
GPG
\langle config/gpg.nix \ 169 \rangle \equiv
  { config, ... }:
  {
     programs.gpg = {
       enable = true;
       settings = {
          default-key = config.accounts.email.accounts.primary.gpg.key;
         keyid-format = "long";
         no-emit-version = true;
       };
     };
     services.gpg-agent = {
       enable = true;
       defaultCacheTt1 = 28800;
       enableSshSupport = true;
       maxCacheTtl = 28800;
     };
  }
htop
\langle config/htop.nix 170 \rangle \equiv
  { ... }:
  {
    programs.htop.enable = true;
  }
i\beta
\langle config/i3/default.nix 171 \rangle \equiv
                                                                              172\, \triangleright
  \{ \text{ config, lib, pkgs, } \dots \}:
  {
```

```
\langle config/i3/default.nix\ 171\rangle + \equiv
                                                              ⊲171 173⊳
    home.packages = with pkgs; [
      flameshot
      i3lock
      rofi
      rofi-pass
    ];
  To use i3status-rust:
{ pkgs, ... }:
{
  home.packages = with pkgs; [
    font-awesome-ttf
    i3status-rust
  ];
  xsession.windowManager.i3.bars = [
    {
      fonts = [ "Iosevka" "FontAwesome 12" ];
      statusCommand = "${pkgs.i3status-rust}/bin/i3status-rs ${config.xdg.configHome}/i3/status.toml";
      # colors = { ... };
  ];
}
  To use the custom status bar with Spotify metadata :
{ pkgs, ... }:
{
  home.file.".local/bin/i3status".source = ./i3status;
  xsession.windowManager.i3.bars = [
    {
      # fonts = [ ... ];
      statusCommand = "${config.home.homeDirectory}/.local/bin/i3status";
      # colors = { ... };
 ];
}
\langle config/i3/default.nix\ 171\rangle + \equiv
                                                              ⊲172 174⊳
    services.picom.enable = true;
    xdg.configFile."i3status/config".source = ../i3status/config;
    xdg.dataFile."i3/matrix.png".source = ./matrix.png;
    xsession.enable = true;
    xsession.windowManager.i3 = {
      enable = true;
      config =
        let
```

```
Use Solarized Dark colors. 15
\langle config/i3/default.nix\ 171\rangle + \equiv
                                                            ⊲173 175⊳
          colors = rec {
            background = "#001e26"; # "#002b36";
            focused = {
              border = "#001e26"; # "#002b36";
              background = "#586e75";
              text = "#fdf6e3";
              indicator = "#268bd2";
              childBorder = ""; # "#285577";
            };
            focusedInactive = {
              border = "#001e26"; # "#002b36";
              background = "#073642";
              text = "#839496";
              indicator = "#073642";
              childBorder = ""; # "#5f676a";
            };
            unfocused = {
              border = "#001e26"; # "#002b36";
              background = "#073642";
              text = "#839496";
              indicator = "#073642";
              childBorder = ""; # "#222222";
            };
            urgent = {
              border = "#001e26"; # "#002b36";
              background = "#dc322f";
              text = "#fdf6e3";
              indicator = "#001e26"; # "#002b36";
              childBorder = ""; # "#900000";
            };
          };
          barColors = {
            inherit (colors) background;
            focusedWorkspace = {
              border = "#b58900";
              background = "#b58900";
              text = "#001e26"; # "#002b36";
            };
            inactiveWorkspace = {
              border = "#073642";
              background = "#001e26"; # "#002b36";
              text = "#839496";
            };
            separator = "#586e75";
            statusline = "#839496";
            urgentWorkspace = {
              border = "#dc322f";
              background = "#dc322f";
              text = "#fdf6e3";
            };
          };
```

15 https://github.com/ tobiaszwaszak/i3wm/blob/9c097f3/ config

```
\langle config/i3/default.nix\ 171\rangle + \equiv
                                                                 ⊲174
          modifier = "Mod4";
        in
        {
          bars = [
            {
              fonts = [ "Iosevka Term" ];
              statusCommand = "${pkgs.i3status}/bin/i3status";
              colors = barColors;
          ];
          inherit colors;
          fonts = [ "Iosevka 12" ];
          keybindings = lib.mkOptionDefault {
            "XF86MonBrightnessDown" = "exec xbacklight -dec 10";
            "XF86MonBrightnessUp" = "exec xbacklight -inc 10";
            "XF86AudioMute" = "exec -no-startup-id amixer set Master 1+ toggle";
            "XF86AudioLowerVolume" = "exec -no-startup-id amixer set Master 5%-";
            "XF86AudioRaiseVolume" = "exec -no-startup-id amixer set Master 5%+";
            "XF86AudioPrev" = "exec playerctl previous";
            # "XF86AudioPlayPause" = "exec playerctl play-pause";
            "XF86AudioPlay" = "exec playerctl play-pause";
            # "XF86AudioPause" = "exec playerctl play-pause";
            "XF86AudioNext" = "exec playerctl next";
            "${modifier}+Escape" = "
              exec i3lock -i ${config.xdg.dataHome}/i3/matrix.png
            "${modifier}+Shift+grave" = "move scratchpad";
            "${modifier}+Shift+minus" = "move scratchpad";
            "${modifier}+grave" = "scratchpad show";
            "${modifier}+minus" = "scratchpad show";
            "${modifier}+Tab" = "exec -no-startup-id rofi -show window";
            "${modifier}+d" = "
              exec -no-startup-id "rofi -combi-modi run, window, drun -show combi -modi combi"
            "${modifier}+space" = "
              exec -no-startup-id "rofi -combi-modi run, window, drun -show combi -modi combi"
            "Print" = "exec flameshot gui";
          };
          inherit modifier;
          startup = [
            {
              command = "volumeicon";
              notification = false;
          ];
        };
    };
  }
```

```
Use some Solarized Dark colors for good, bad, and
degraded. ^{16}
                                                                                      16 https://github.com/
                                                                                      tobiaszwaszak/i3wm/blob/9c097f3/
\langle config/i3status/config 176 \rangle \equiv
                                                                           177⊳
                                                                                      i3status.conf
  general {
       colors = true
       color_good = "#859900"
       color_bad = "#dc322f"
       color_degraded = "#cb4b16"
       interval = 5
       output_format = "i3bar"
  }
\langle config/i3status/config 176 \rangle + \equiv
                                                                    ⊲176 178⊳
  order += "path_exists VPN"
  path_exists VPN {
       format = "□"
       format_down = ""
       path = "/proc/sys/net/ipv4/conf/tun0"
  }
   I usually don't care about SSID.
order += "wireless _first_"
wireless _first_ {
    format_up = "%essid"
\langle config/i3status/config 176 \rangle + \equiv
                                                                    ⊲177 179⊳
  order += "load"
  load {
       format = "%1min %5min %15min"
       format_above_threshold = "D %1min %5min %15min D"
       max\_threshold = 9
  order += "battery all"
  battery all {
       format = "%status %percentage %remaining"
   Show the battery percentage without decimals.
\langle \mathit{config/i3status/config}\ 176 \rangle + \equiv
                                                                    ⊲178 180⊳
       integer_battery_capacity = true
   Use the last full capacity, instead of the design capacity. Refer to
the man page<sup>17</sup> for more details.
                                                                                     <sup>17</sup> https://i3wm.org/i3status/
                                                                                     manpage.html#_battery
\langle config/i3status/config 176 \rangle + \equiv
                                                                    ⊲179 181⊳
       last_full_capacity = true
```

```
\langle config/i3status/config 176\rangle + \equiv
                                                                   ⊲180 182⊳
       low_threshold = 10
       status_bat = "\omega"
       status_chr = "4"
       status_full = "O"
       status\_unk = "\square"
       threshold_type = "time"
order += "tztime singapore"
tztime singapore {
    format = "OO %a %H:%M"
    hide_if_equals_localtime = true
    locale = "en_SG.utf8"
    timezone = "Asia/Singapore"
}
order += "tztime london"
tztime london {
    format = "OO %a %H:%M"
    hide_if_equals_localtime = true
    locale = "en_GB.utf8"
    timezone = "Europe/London"
}
\langle config/i3status/config 176 \rangle + \equiv
                                                                   ⊲181 183⊳
  order += "tztime trondheim"
  tztime trondheim {
       format = "OO %a %H:%M"
       hide_if_equals_localtime = true
       locale = "nb_NO.UTF-8"
       timezone = "Europe/Oslo"
  }
\langle config/i3status/config 176 \rangle + \equiv
                                                                         ⊲182
  order += "tztime local"
  tztime local {
       format = "0 %a %d.%m %H:%M:%S"
jq
\langle \mathit{config/jq.nix} \ 184 \rangle \equiv
  { ... }:
  {
    programs.jq.enable = true;
  }
```

```
\langle \mathit{config/kitty.nix}\ 185 \rangle {\equiv}
  { pkgs, ... }:
  {
    programs.kitty = {
      enable = true;
      extraConfig = "
        include theme.conf
      ";
      font = {
        name = "Iosevka Term";
        package = (pkgs.nerdfonts.override { withFont = "Iosevka"; });
      keybindings = {
        "kitty_mod+enter" = "new_window_with_cwd";
         "kitty_mod+k" = "
           combine : clear_terminal scrollback active : send_text normal \x0c
      };
      settings = {
        editor = "emacsclient -nw -a """;
        font_size = 24;
        kitty_mod = "ctrl+shift";
        scrollback_lines = -1;
        shell = ".";
        term = "xterm";
        window_border_width = 0;
      };
    };
    xdg.configFile."kitty/theme.conf".source = builtins.fetchurl {
      url = "https://raw.githubusercontent.com/dexpota/kitty-themes/c4bee86ce8372d3426620e27086d6afa6873a98c/themes/S
      sha256 = "0vwjcyd0asqrbs4437k2b80lqlanl79q03kk4pjnfdf379jklrm4";
    };
  }
man
\langle \mathit{config/man.nix} \ 186 \rangle {\equiv}
  { ... }:
  {
    programs.man.enable = true;
  }
```

```
nixpkgs
\langle \mathit{config/nixpkgs/default.nix}\ 187 \rangle {\equiv}
  { ... }:
  {
     nixpkgs.config = import ./nixpkgs-config.nix;
     xdg.configFile."nixpkgs/config.nix".source = ./nixpkgs-config.nix;
  }
\langle config/nixpkgs/nixpkgs-config.nix~188\rangle {\equiv}
     allowBroken = false;
     allowUnfree = true;
     allowUnsupportedSystem = false;
rebar3
\langle \mathit{config/rebar3.nix}\ 189 \rangle {\equiv}
  { ... }:
  {
     xdg.configFile."rebar3/rebar.config".text = "
     {plugins, [rebar3_hex]}.
";
  }
Taskwarrior
Config
\langle config/taskwarrior/default.nix\ 190 \rangle \equiv
                                                                               191 ⊳
  { config, lib, pkgs, ... }:
  {
```

SINCE HOME-MANAGER GENERATES A READ-ONLY .taskrc FILE, and using $contexts^{18}$ requires Taskwarrior to be able to modify the it, use the following hacky workaround.

18 https://taskwarrior.org/docs/ context.html

Set \$TASKRC to ~/.taskrc-dirty, which must contain at least include ~/.taskrc.

```
\langle config/taskwarrior/default.nix 190 \rangle + \equiv
                                                                       ⊲190 192⊳
     home.sessionVariables = {
       TASKRC = "~/.taskrc-dirty";
     };
```

Define short Taskwarrior shell aliases.

```
\langle config/taskwarrior/default.nix\ 190 \rangle + \equiv
                                                                ⊲ 191 193 ⊳
    programs.fish.shellAliases = lib.mkIf (config.programs.fish.enable) rec {
      p = "task ls limit:page";
      pp = tbd;
      t = "task limit:page";
      ta = "task add";
      tbd = "task burndown.daily";
      te = "env VISUAL=$EDITOR task edit";
      tl = "task list";
      tm = "task mod";
    };
```

19 https://github.com/rycee/

home-manager

```
CONFIGURE TASKWARRIOR, using home-manager<sup>19</sup>.
```

enable = true;

config = {

uda = {

};

};

};

};

};

};

}; **}**;

};
};

jiraid = {

jirastatus = {

jirasummary = {

jiraurl = {

type = "string";

label = "Jira URL"; type = "string";

label = "Jira Status"; type = "string";

label = "Jira Summary";

 $\langle config/taskwarrior/default.nix\ 190 \rangle + \equiv$ ⊲192 194⊳ programs.taskwarrior = { colorTheme = "solarized-dark-256"; context.other = "jiraurl.none or -work"; context.work = "jiraurl.any or +work"; jiracreatedts = { label = "Created At"; type = "date"; jiradescription = { label = "Jira Description"; type = "string"; jiraestimate = { label = "Estimate"; type = "numeric"; jirafixversion = { label = "Fix Version"; type = "string"; label = "Jira Issue ID"; type = "string"; jiraissuetype = { label = "Issue Type"; type = "string";

exit 100

```
Link the on-exit Git hook. <sup>20</sup>
                                                                                        <sup>20</sup> See next subssection.
\langle config/taskwarrior/default.nix\ 190 \rangle + \equiv
                                                                            ⊲193
     xdg.dataFile."task/hooks/on-exit-git.sh" = {
       executable = true;
       source = ./on-exit-git.sh;
     };
  }
on-exit Git hook
FIRST, use a fairly portable Bash shebang, and be safe.<sup>21</sup>
                                                                                        <sup>21</sup> -exit immediately upon fail-
                                                                                        ure, treat -Unset variables as an
\langle config/taskwarrior/on-exit-qit.sh\ 195 \rangle \equiv
                                                                            196⊳
                                                                                        error, disable -file globbing, and
  #! /usr/bin/env bash
                                                                                        fail if any part of a pipeline fails
                                                                                        (-o pipefail).
  set -eufo pipefail
   Run in debug mode^{22}, if the environment variable DEBUG is nonempty.
                                                                                       ^{22} i.e. echo commands
\langle config/taskwarrior/on-exit-git.sh\ 195 \rangle + \equiv
                                                                      ⊲195 197⊳
  if [ -n "${DEBUG:-}" ]; then
       set -x
  fi
Parse the command line arguments.
   Don't include the api version, rc file, or Taskwarrior version.
                                                                                        N.B. The positional arguments are
                                                                                        formatted as foo:bar, where foo is
i="${1#api:}"
                                                                                        the name of the argument, and bar is
                                                                                        the value.
="${4#rc:}"
rsion="${6#version:}"
   Parse and store the values of the arguments, args, command, and
data directory.
\langle config/taskwarrior/on-exit-git.sh\ 195 \rangle + \equiv
                                                                     ⊲196 198⊳
  args="${2#args:}"
  command="${3#command:}"
  data="${5#data:}"
THROUGHOUT THIS SCRIPT, run git as if it were started in the
Taskwarrior data directory, i.e. git -C "$data".
                                                                                        If there are no changes, exit suc-
                                                                                        cessfully, printing an informative
\langle config/taskwarrior/on\text{-}exit\text{-}git.sh \ 195 \rangle + \equiv
                                                                      ⊲197 199⊳
                                                                                        message if running in debug mode.
  if git -C "$data" diff -quiet; then
                                                                                       git diff exits with status code 0 if
       if [ -n "${DEBUG:-}" ]; then
                                                                                        there are no differences between the
            echo 'No changes to commit'
                                                                                        working tree and the index.
       fi
       exit 0
   If present, stage the changes or die trying.
\langle config/taskwarrior/on-exit-git.sh\ 195 \rangle + \equiv
                                                                      ⊲198 200⊳
  elif ! git -C "$data" add -A; then
       echo 'Failed to add files to the index'
```

Try to commit the changes, or else.

```
\langle \mathit{config/taskwarrior/on\text{-}\mathit{exit\text{-}\mathit{git}}}.\mathit{sh}\ 195\rangle + \equiv
                                                                                  ⊲199 201⊳
   elif ! git -C "$data" commit -qm "$command: ${args#task $command}"; then hanges.
        echo 'Failed to record changes to the repository'
        exit 101
```

Quietly store the current contents of the index in a new commit, along with a log message describing the

If running in debug mode, print a brief summary of the commit.

```
\langle config/taskwarrior/on-exit-git.sh\ 195 \rangle + \equiv
                                                                               ⊲200
  elif [ -n "${DEBUG:-}" ]; then
       git -C "$data" log -oneline -1
  fi
```

Glossary

module "Each NixOS module is a file that handles one logical aspect of the configuration, such as a specific kind of hardware, a service, or network settings." $^{23}\ 6$

 $^{23}\,\mathrm{https://nixos.org/nixos/manual/}$ index.html #sec-writing-modules

A cronyms

 $LUKS\,$ Linux Unified Key Setup 6

Bibliography

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$To ext{-}Do$

| Describe the location module | 6 |
|--|----|
| btrfs clean boot? | 7 |
| Configure Vim | 10 |
| Dig through https://github.com/mathiasbynens/dotfiles/ | |
| blob/master/.macos | 22 |
| link | 51 |