

```

#!/bin/bash
# shellcheck source=kz_common.sh
#####
# Change GUI.
#
# Written in 2015 by Karel Zimmer <info@karelzimmer.nl>, Creative Commons
# Public Domain Dedication <https://creativecommons.org/publicdomain/zero/1.0>.
#####

set -o errexit
program_path=$(cd "$(dirname "$(realpath "$0")")" && pwd)
source "$program_path"/kz_common.sh

#####
# Constants
#####

declare program_name='kz-gset'
declare program_desc
program_desc=$(gettext 'Change GUI')
declare display_name=${program_name/kz-/kz }

declare usage
usage="$(eval_gettext "Usage: \${display_name} [-a|--addfavaft=FAVORITE] \
[-b|--addfavbef=FAVORITE]
        [-d|--delfav=FAVORITE] [-l|--list] [-r|--resetfavs]
        [-f|--addappfolder=APPFOLDER] [-x|--delappfolder=APPFOLDER]
        \${options_usage}")"

declare help
help="$(eval_gettext "Usage: \${display_name} [OPTION...]"")

$program_desc.

$(gettext 'Options:
  -a, --addfavaft=FAVORITE
        add FAVORITE at the end
  -b, --addfavbef=FAVORITE
        add FAVORITE at the beginning
  -d, --delfav=FAVORITE
        delete FAVORITE
  -l, --list
        show favorites and app folders
  -r, --resetfavs
        reset favorites
  -f, --addappfolder=APPFOLDER
        add APPFOLDER
  -x, --delappfolder=APPFOLDER
        delete APPFOLDER')
$options_help"
declare options_short+='a:b:d:lrf:x:'
declare options_long+=",addfavaft:,addfavbef:,delfav:,list,resetfavs,\
addappfolder:,delappfolder:"

#####
# Variables
#####

declare appfolder=''
declare config_a=''
declare config_b=''
declare desktopfile=''
declare favorite_argument=''
declare folder_argument=''

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```
declare option_addappfolder=false
declare option_addfavaft=false
declare option_addfavbef=false
declare option_delappfolder=false
declare option_delfav=false
declare option_list=false
declare option_resetfavs=false
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#####
# Functions
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```
function check_input {
    local -i getopt_rc=0
    local parsed=''

    parsed=$(
        getopt  --alternative          \
                --options             "$options_short" \
                --longoptions         "$options_long"  \
                --name                 "$display_name" \
                --                     "$@"
    ) || getopt_rc=$?
    if [[ $getopt_rc -ne $ok ]]; then
        info "$usage_line"
        exit $error
    fi
    eval set -- "$parsed"
    kz_common.process_options "$@"

    while true; do
        case $1 in
            -a|--addfavaft)
                option_addfavaft=true
                favorite_argument=$2
                shift 2
                ;;
            -b|--addfavbef)
                option_addfavbef=true
                favorite_argument=$2
                shift 2
                ;;
            -d|--delfav)
                option_delfav=true
                favorite_argument=$2
                shift 2
                ;;
            -l|--list)
                option_list=true
                shift
                ;;
            -r|--resetfavs)
                option_resetfavs=true
                shift
                ;;
            -f|--addappfolder)
                option_addappfolder=true
                folder_argument=$2
                shift 2
                ;;
            -x|--delappfolder)
                option_delappfolder=true
                folder_argument=$2
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        shift 2
        ;;
    --)
        shift
        break
        ;;
    *)
        shift
        ;;
esac
done

if [[ "$*" ]]; then
    printf "$display_name: $*: %s\n$usage_line\n" \
        "$($gettext 'arguments are not allowed')"
    exit $error
fi

appfolder=$folder_argument
desktopfile=$favorite_argument.desktop
}

function process_input {
    if $option_addfavaft; then
        process_option_addfavaft
    elif $option_addfavbef; then
        process_option_addfavbef
    elif $option_delfav; then
        process_option_delfav
    elif $option_list; then
        process_option_list
    elif $option_resetfavs; then
        process_option_resetfavs
    elif $option_addappfolder; then
        process_option_addappfolder
    elif $option_delappfolder; then
        process_option_delappfolder
    else
        capture_gui_changes
    fi
}

function process_option_addfavaft {
    local favorite_apps=''

    favorite_apps=$(gsettings get org.gnome.shell favorite-apps)
    if [[ $favorite_apps = '@as []' ]]; then
        gsettings set org.gnome.shell favorite-apps ["'$desktopfile'"]
    elif ! printf '%s' "$favorite_apps" |
        grep --quiet --word-regexp --regexp="$desktopfile"; then
        gsettings set org.gnome.shell favorite-apps "$(
            printf '%s' "$favorite_apps" |
            cut --delimiter=']' --fields=1
        ), '$desktopfile']"
    fi
}

function process_option_addfavbef {
    local favorite_apps=''

    favorite_apps=$(gsettings get org.gnome.shell favorite-apps)

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if [[ $favorite_apps = '@as []' ]]; then
    gsettings set org.gnome.shell favorite-apps ["'$desktopfile'"]
elif ! printf '%s' "$favorite_apps" |
    grep --quiet --word-regexp --regexp="$desktopfile"; then
    gsettings set org.gnome.shell favorite-apps \
        ["'$desktopfile', $(
            printf '%s' "$favorite_apps" | cut --delimiter='[' --fields=2
        )"]
fi
}

function process_option_delfav {
    local favorite_apps=''

    favorite_apps=$(gsettings get org.gnome.shell favorite-apps)
    if [[ $favorite_apps = '@as []' ]]; then
        :
    elif [[ $favorite_apps = ["'$desktopfile'"] ]]; then
        gsettings set org.gnome.shell favorite-apps [""]
    else gsettings set org.gnome.shell favorite-apps "$(
        printf '%s' "$favorite_apps" |
        sed --expression="s/'$desktopfile', //g" |
        sed --expression="s/, '$desktopfile'//"
    )"
fi
}

function process_option_list {
    gsettings get org.gnome.shell favorite-apps
    gsettings get org.gnome.desktop.app-folders folder-children
}

function process_option_resetfavs {
    gsettings reset org.gnome.shell favorite-apps
}

function process_option_addappfolder {
    local app_folders=''
    local schema=''
    local path=''

    app_folders=$(gsettings get org.gnome.desktop.app-folders folder-children)

    if [[ $app_folders = '@as []' ]]; then
        set org.gnome.desktop.app-folders folder-children ["'$appfolder'"]
    elif ! printf '%s' "$app_folders" |
        grep --quiet \
            --word-regexp \
            --regexp="$appfolder"; then
        gsettings set org.gnome.desktop.app-folders folder-children "$(
            printf '%s' "$app_folders" | cut --delimiter='[' --fields=1
        ), '$appfolder']"
    fi
    schema=org.gnome.desktop.app-folders.folder
    path=/org/gnome/desktop/app-folders/folders/$appfolder/
    gsettings set "$schema": "$path" name "$appfolder"
    gsettings set "$schema": "$path" translate true
    gsettings set "$schema": "$path" categories ["'$appfolder'"]
}

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function process_option_delappfolder {
    local app_folders=''
    local schema=''
    local path=''

    app_folders=$(gsettings get org.gnome.desktop.app-folders folder-children)

    if [[ $app_folders = '@as []' ]]; then
        :
    elif [[ $app_folders = '['$appfolder']" ]]; then
        gsettings set org.gnome.desktop.app-folders folder-children "[]"
    else gsettings set org.gnome.desktop.app-folders folder-children "$(
        printf '%s' "$app_folders" | sed --expression="s/, '$appfolder'//"
        )"
    fi
    schema=org.gnome.desktop.app-folders.folder
    path=/org/gnome/desktop/app-folders/folders/$appfolder/
    gsettings reset-recursively "$schema":"$path"
}

function capture_gui_changes {
    config_a=$(mktemp -t "$program_name-A-XXXXXXXXXX.lst")
    save_configuration_database A "$config_a"
    info "$(gettext 'Now make the change in the graphical workspace.')"
    kz_common.wait_for_enter
    config_b=$(mktemp -t "$program_name-B-XXXXXXXXXX.lst")
    save_configuration_database B "$config_b"
    report_database_changes "$config_a" "$config_b"
}

function save_configuration_database {
    # shellcheck disable=SC2034
    local fase=${1:-unknown}
    local output_file=${2:-unknown}

    gsettings list-recursively > "$output_file" 2> >($logcmd)

    sort --unique \
        --output="$output_file" \
        "$output_file"

    info "$(eval_gettext "Config database content captured (\$fase).)")"
}

function report_database_changes {
    local output_file1=${1:-unknown}
    local output_file2=${2:-unknown}

    info "$(
    gettext 'CHANGES in the configuration database,
    < is the old setting (A),
    > is the new setting (B):')"
    diff "$output_file1" "$output_file2" | grep --regexp='[>|<]' || true
    info "
    $(eval_gettext "When CHANGES execute: \${blue}gsettings set CHANGE\${normal}")"
    rm "$config_a" "$config_b"
}

function term_script {

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    exit $ok
}
```

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#####  
# Script  
#####
```

```
function main {  
    kz_common.init_script "$@"  
    check_input "$@"  
    process_input  
    term_script  
}
```

```
main "$@"
```