

Oracle[®] Solaris 11.4 Desktop Accessibility Guide

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Oracle Solaris uses the community version of GNOME without any modifications. This guide contains a brief description of the accessibility features and pointers to the community documentation.

About the Oracle Solaris 11.4 Desktop

The accessibility features enable people with disabilities to use the software easily and efficiently. The applications and utilities in the Oracle Solaris Desktop are designed with accessibility and usability in mind. Users with physical disabilities such as low vision or impaired motor skills can use the Oracle Solaris Desktop.

The Oracle Solaris Desktop has the following accessibility features:

- Orca Screen Reader
- Mousetweaks

About the Orca Screen Reader

Orca is a free, open source, flexible and extensible screen reader that provides access to the graphical desktop through speech and refreshable Braille.

Orca is a part of the GNOME platform and its releases are synchronized with the GNOME releases.

Orca works with applications and toolkits that support the Assistive Technology Service Provider Interface (AT-SPI), which is the primary assistive technology infrastructure for Linux and Oracle Solaris. Applications and toolkits that support the AT-SPI include the GNOME Gtk+ toolkit, the Java platform's Swing toolkit, LibreOffice, Gecko, and WebKitGtk. AT-SPI support for the KDE Qt toolkit is being pursued.

Getting Started With the Orca Screen Reader

This section provides information on getting started with the Orca Screen Reader.

- Selecting the keyboard layout. See [Keyboard Layout](#).
- Setting up Orca. See [Configuration](#).
- Maintaining multiple configurations. See [Profiles](#).
- Bind, Unbind and Rebind Orca commands. See [Keybindings](#).
- Discover Orca's commands. See [Learn Mode](#).
- Performing the Orca commands using the Orca modifier key. See [The Orca Modifier](#).
- Toggling CapsLock when it is in Laptop Layout. See [CapsLock in Laptop Layout](#).

Reading Documents and Web Pages

This section provides information on reading content, navigating, and accessing the information easily.

- Reading content. See [Documents](#).
- Navigating and setting dynamic headers. See [Tables](#).
- Examining text formatting. See [Text Attributes](#).

- Accessing widgets embedded in documents. See [Filling out Forms](#).
- Moving by heading and other elements. See [Structural Navigation](#).
- Interacting with dynamic web content. See [Live Regions](#).

Reviewing and Interacting with Screen Contents

This section provides information on examining and interacting with screen contents.

- Learning about your location. See [WhereAmI](#).
- Using the pointer to examine the screen. See [Mouse Review](#).
- Examining a Window spatially. See [Flat Review](#).
- Reading previously received messages. See [Notifications](#).
- Searching window for objects. See [Orca Find](#).
- Storing and retrieving objects. See [Bookmarks](#).

Configuring Orca Screen Reader Preferences

Through Orca preferences, you can customize Orca for all desktop applications. Orca preferences can also be customized on an application-by-application basis.

Orca preferences can be grouped into preferences that apply in general and those that are unique to applications only.

To view the Preferences Dialog, use the following keyboard shortcuts:

- To access Orca's preferences, use Orca modifier + Space.
- To access Orca's preferences for the current application, use Ctrl + Orca modifier + Space.

Customizing General Preferences

You can customize the following functions:

- Configuring Orca's fundamental behavior. See [General Preferences](#).
- Configuring what is spoken as you type. See [Key Echo Preferences](#).
- Configuring the voice used by Orca. See [Voice Preferences](#).
- Configuring Orca's keyboard shortcuts. See [Key Bindings Preferences](#).
- Configuring what gets spoken. See [Speech Preferences](#).
- Defining how specific words get pronounced. See [Pronunciation Preferences](#).
- Configuring Orca's Braille display support. See [Braille Preferences](#).
- Configuring what formatting is presented. See [Text Attributes Preferences](#).

Preferences Unique to Applications

Certain Orca preferences are unique only to applications. These preferences allow you to customize Orca only in certain environments, such as web pages or chat applications. You can configure the following preferences:

- Configuring Orca's support for Firefox and thunderbird. See [Gecko Navigation Preferences](#).

- Configuring Orca's support for IM and IRM. See [Chat Preferences](#).
- Configuring Orca's navigation within tables. See [Table Navigation Preferences](#).
- Configuring Orca's support for Spell Check. See [Spell Check Preferences](#).
- Configure Orca's files to open with other applications. See [Open files with other applications](#).

Orca Commands

This section provides an overview of all the commands to perform different functions in Orca.

- Commands for interacting with Orca. See [Controlling and Learning to Use Orca](#).
- Commands for getting the time, date, and notification messages. See [Time, Date, and Notification Commands](#).
- Commands to learn about your location. See [Where Am I Commands](#).
- Commands to access saved Configurations. See [Profile Commands](#).
- Commands executable on Braille display. See [Braille Commands](#).
- Commands for customizing Orca's speech output. See [Speech Settings Commands](#).
- Commands for accessing document content. See [Reading Commands](#).
- Commands for accessing tabular information. See [Table Navigation Commands](#).
- Commands for navigating by elements. See [Structural Navigation Commands](#).
- Commands for spatially reviewing windows. See [Flat Review Commands](#).
- Commands for manipulating the pointer. See [Mouse/Pointer Related Commands](#).
- Commands for searching Window contents. See [Orca Find Commands](#).
- Commands to bookmark and retrieve objects. See [Bookmark Commands](#).
- Commands for accessing web live regions. See [Live Region Commands](#).
- Commands for use in IM and IRC. See [Chat Commands](#).
- Commands for troubleshooting. See [Debugging Commands](#).

You can magnify the Orca screen which is different action than just enlarging the text. This feature allows you to move around by zooming in on parts of the screen. See [Magnifying a Screen Area](#).

About MouseTweaks

Mousetweaks provides mouse accessibility enhancements for the GNOME desktop. Mousetweaks provides the following accessibility functions:

- Simulated secondary click enables the user to perform a secondary click (menu click) by holding down the primary mouse button while keeping the pointer motionless.
- Dwell click enables the user to perform the various clicks without pressing any hardware button.
- Pointer capture enables the user to lock the pointer in a determined area of the panel until the user releases it by a predefined keystroke or mouse button.

For more information, see [Description of the Functions](#).

The simulated secondary click and the dwell click depend on the MouseTweaks process, while the pointer capture applet depends on the GNOME panel. Consequently, the methods to start these functions also vary. See [How to Start the Functions](#).

Quitting a function depends on the feature you want to quit. For information on how to quit the functions, see [How to Quit the Functions](#).

Configuring Mouse Behavior

This section describes how to modify the behavior of the mouse:

- Change how quickly the pointer moves when you use your mouse or touchpad. See [Adjust speed of the mouse and touchpad](#).
- Configure the mouse for left-handed use. See [Use your mouse left-handed](#).
- Simulate a right-click by pressing and holding the left mouse button. See [Simulate a right mouse click](#).
- Configure the Double-Click behavior. See [Adjust the double-click speed](#).
- Simulate the Hover click(Dwell click) feature which enables you to click by holding the mouse still. See [Simulate clicking by hovering](#).
- Enable mouse keys to control the mouse with the numeric keypad. See [Click and use mouse pointer using the keypad](#).
- Click, drag, or scroll using taps and gestures on your touchpad. See [Click, drag, or scroll using the touchpad](#).

Using the Keyboard to Emulate the Mouse

If you have difficulty in using the mouse, you can use the keyboard to emulate the mouse. You can configure an accessible keyboard to emulate the following functions of the mouse:

- Ignore quickly repeated key presses of the same key. See [Turn on bounce keys](#).
- Have a delay between a key being pressed and that letter appearing on the screen. See [Turn on slow keys](#).

Type keyboard shortcuts one key at a time rather than having to hold down all of the keys at once. See [Turn on sticky Keys](#).

Using the Keyboard to Navigate the Desktop

For information on using the keyboard to navigate the desktop, see the following information sources:

- [Keyboard Navigation](#)
- [Useful Keyboard Shortcuts](#)
- [Windows and Workspaces](#)
- [Keyboard Input](#)
- [Short Keys](#)
- [Set Keyboard Shortcuts](#)

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