

TINYTERM FOR ANDROID

USER'S GUIDE

VERSION 1.0.0

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User's Guide

Gestures

TinyTERM for Android supports several gestures. These are designed to make TinyTERM easier to use, whether by offering quick access to commonly used features, or by allowing you to customize TinyTERM's appearance and behavior.

Emulator Screen

All these operations take place in the emulation or browser portion of the screen. The keyboard area is reserved for key operations, even when it's transparent.

- **Tap and drag**
Holding and moving a single finger on the screen moves around the view port. If the text is minimized, then it will all fit on screen, so no dragging is needed.
- **Double tap**
Double-tapping the emulator screen displays or hides the keyboard. Double-tapping with two fingers starts a scan with the rear camera.
- **Tap and hold**
Holding one finger down starts text selection for copy, or offers the option to paste text. Paste always happens at the current cursor position, which may not be where the screen was touched.
- **Pinch zoom**
This resizes the font between full size and fitting all text in the view port. Any size in between is available.

Configure Button



The Configure button at top right of the emulator screen opens the list of configurations. This also provides access to the [Global Options](#).

Using TinyTERM for Android

Create a New Configuration

Creating a new configuration is quick and easy in TinyTERM for Android.

Configuration Name

New Connection 1

Configuration Type

Web Browser

UNIX Terminal Emulation

IBM 3270 Emulation

To get started, touch the **Add New Connection** button in the main screen. This brings up the **New Connection** screen.

Enter a **Name** that describes the connection. This is how you'll identify the particular configuration in the list of connections.

Then select either **Web Browser** for an industrial browser connection, or one of the terminal emulation options for a terminal connection.

Create a Web Browser Configuration

Once you've selected a **Web Browser** configuration type, you'll need the connection specifics. At a minimum, you need the **Hostname** or IP address of the Web server.

Connection

< Configure Industrial Br... CONNECT

Browser Configuration

New Connection 1

Connection

http://

Browser

Hide Title Bar No

Hide Address Bar No

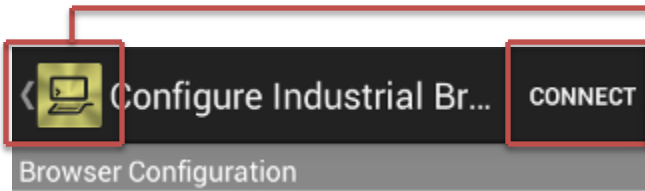
Enter a name in the **Browser Configuration** field

Enter the URL in the **Connection** field. For secure connections, change *http://* to *https://*.

Hide Title Bar prevents the TinyTERM title bar from displaying, which provides more screen space. When this is on, the title bar can be accessed by tapping the faded down arrow at top right of the browser, just below the Android device's battery icon.

Hide Address Bar hides the URL while in the browser. The URL is normally displayed in the Title Bar. With this switch on, it does not display. If **Hide Title Bar** is set, this switch has no immediate effect, as the URL is automatically hidden in that case.

Saving the Configuration



When finished, touch the back arrow to save the new configuration and return to the main screen.

Or touch the **Connect** button to save the configuration and connect immediately.

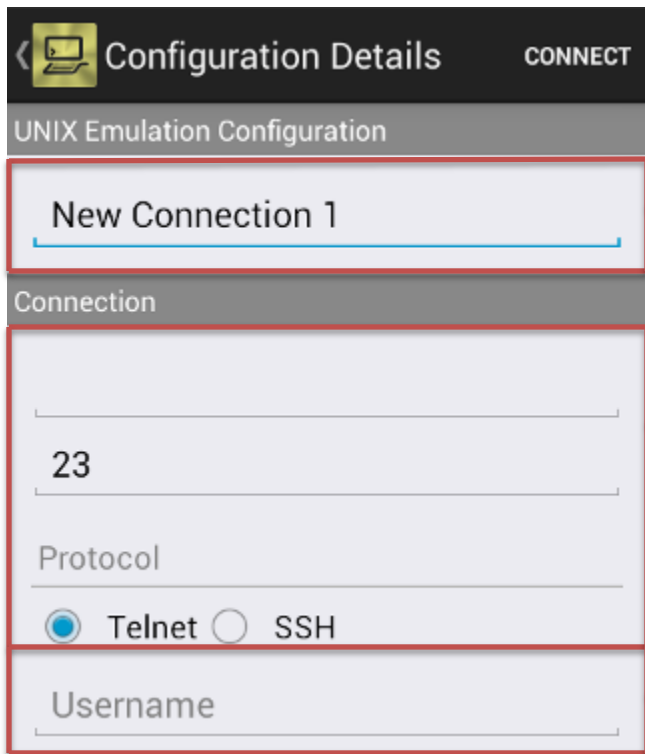
Once a configuration is saved, you can launch it by selecting the name in the list of configurations.

Create a UNIX Terminal Emulation Configuration

To configure a UNIX terminal emulation session, you'll need the connection specifics. At a minimum, you need the **Hostname** or IP address of the server, and the communications **Protocol** and **Emulation** the server requires.

There are no generic settings that will work for these options. Each is specific to a given server, as determined by the server administrator.

Connection



Configuration Details CONNECT

UNIX Emulation Configuration

New Connection 1

Connection

23

Protocol

☒ Telnet ☐ SSH

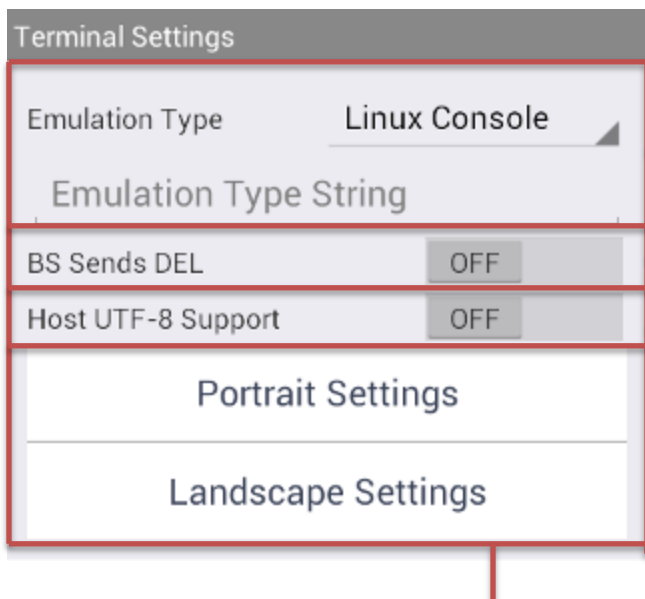
Username

Enter a **Name** for the connection.

Then enter the **Hostname** and select the **Protocol**. The default **Port** is set to 23, the default for telnet. The default for SSH is port 22. On some systems, these values are different from the defaults as an added security measure. In that case, you'll need to enter the correct **Port** as well.

The **Username** is required for SSH connections. It is not used by the telnet protocol.

Terminal Emulator Settings



Terminal Settings

Emulation Type Linux Console

Emulation Type String


BS Sends DEL OFF

Host UTF-8 Support OFF

Portrait Settings

Landscape Settings

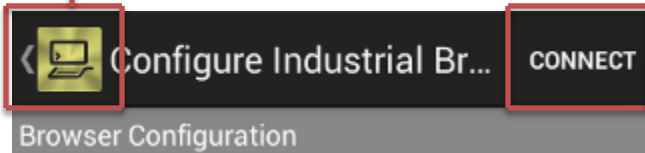
Select the specific **Emulation Type** required by your host system and application. The optional **Emulation Type String** causes TinyTERM to report a terminal type other than the one selected. More information on that feature is in our [Knowledge Base](#).

BS Sends DEL determines the action of the  key. When off, the key sends a backspace (ASCII 8). The **ON** position causes it to send a Delete character instead (ASCII 127).

Host UTF-8 Support determines whether or not TinyTERM expects **UTF-8 characters** from the host

Portrait Settings and **Landscape Settings** open additional dialogs, these are documented on page 12.

Saving the Configuration



When finished, touch the back arrow to save the new configuration and return to the main screen.

Or touch the **Connect** button to save the configuration and connect immediately.

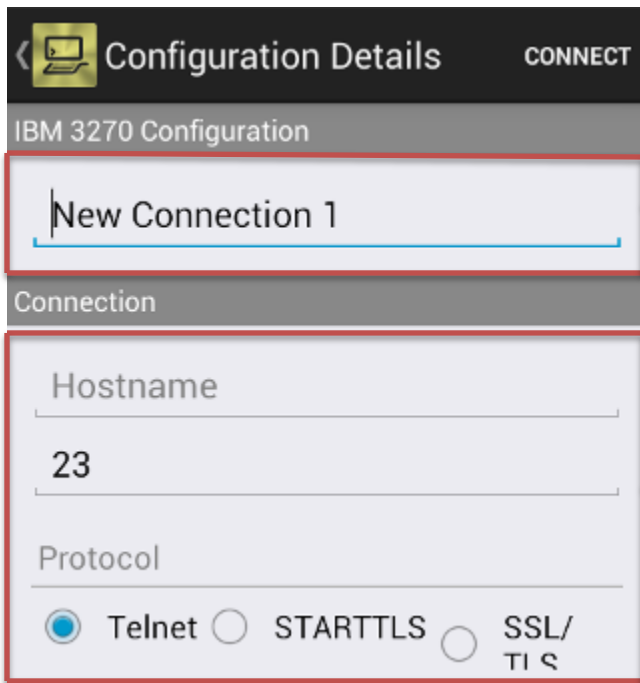
Once a configuration is saved, you can launch it by selecting the name in the list of configurations.

Create an IBM 3270 Emulation Configuration

After selecting a new 3270 terminal emulation configuration, you'll need the connection specifics. At a minimum, you need the **Hostname** or IP address of the server, and the communications **Protocol** and **Emulation** the server requires.

There are no generic settings that will work for these options. Each is specific to a given server, as determined by the server administrator.

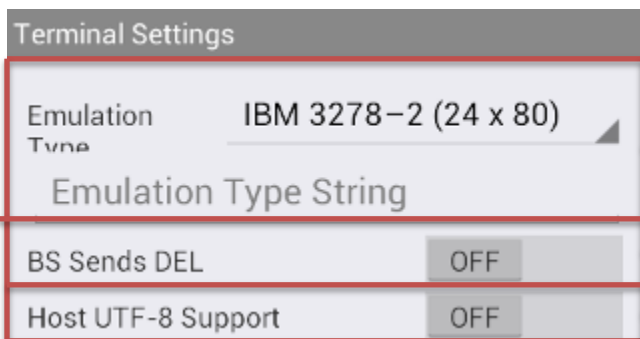
Connection



First, enter a **Name** for the connection.


Then enter the **Hostname** and select the **Protocol**. The default **Port** is set to 23. On some systems, this value is different as an added security measure. In that case, you'll need to enter the correct **Port** as well. The **LU Name** is optional.

Terminal Emulator Settings



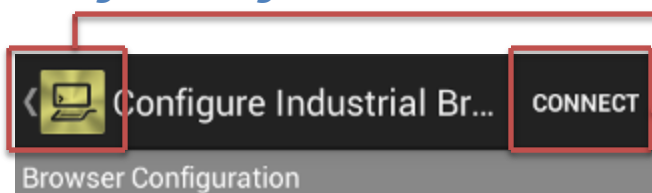
Select the specific 3270 **Emulation** required by your host system and application. Four are available:

- IBM 3278-2 (24X80)
- IBM 3278-3 (32X80)
- IBM 3278-4 (43X80)
- IBM 3278-5 (27X132)

BS Sends Del determines the action of the  key. When off, the key moves the cursor left, but does not clear the text it passes over. With the switch on, characters are cleared from the screen as the cursor backspaces over them.

Host UTF-8 Support enables support for the UTF-8 character set when on. When off, basic EBCDIC is supported.

Saving the Configuration



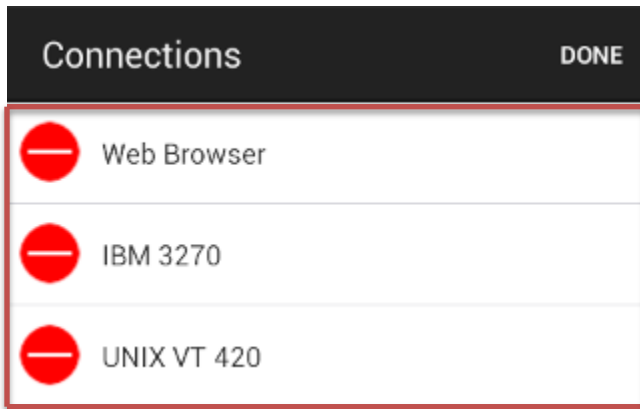
When finished, touch the back arrow to save the new configuration and return to the main screen.

Or touch the **Connect** button to save the configuration and connect immediately.

Once a configuration is saved, you can launch it by selecting the name in the list of configurations.

Modify an Existing Configuration

Modifying an existing TinyTERM Enterprise for Android configuration is as easy as [creating one](#).



From the main screen, touch the **Edit** button at top right. Edit circles come up by the configuration names.

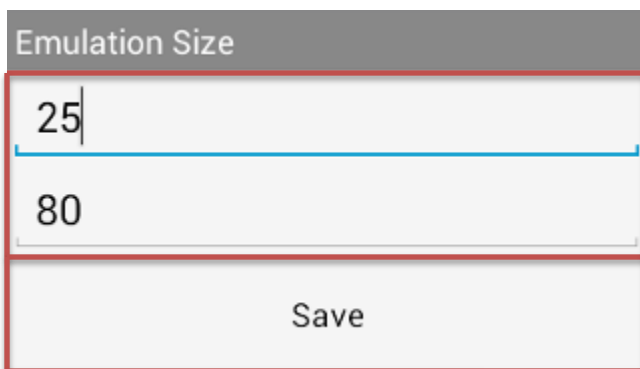
Select the configuration you want to edit. Its settings window will come up. The settings can be changed as needed.

Tap the back arrow or **Connect** button to save the changes. Or tap the **Done** button to exit edit mode.

Portrait and Landscape Settings

For UNIX terminal types that support it, such as *Linux*, TinyTERM allows displaying a different emulation size based on the device orientation. The **Portrait Settings** and **Landscape Settings**, while identical in available options, are independent of each other.

Emulation Size



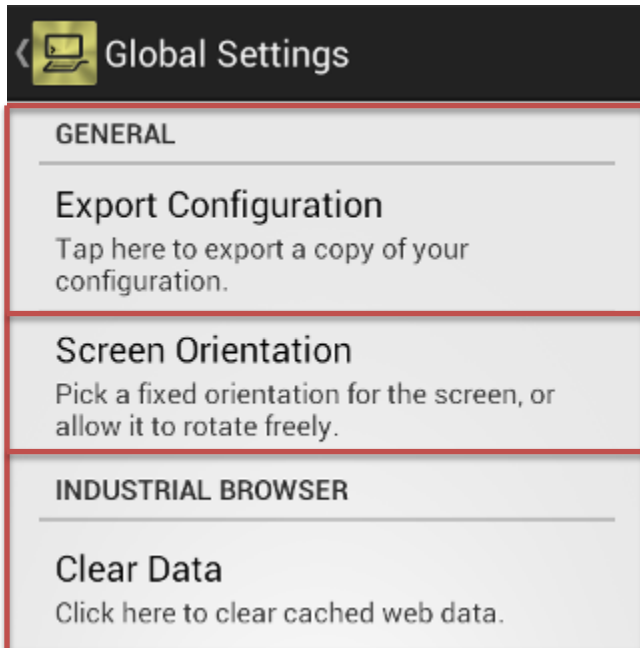
The number of **Rows** (top line) and **Columns** (bottom line) can vary with the Android device orientation. Changes to the rows and columns update the display automatically when the device is rotated to show more or less information.

Click on **Save** to keep these settings.

Global Settings

The **Global Settings** button brings up a list of settings common to all TinyTERM connection configurations.

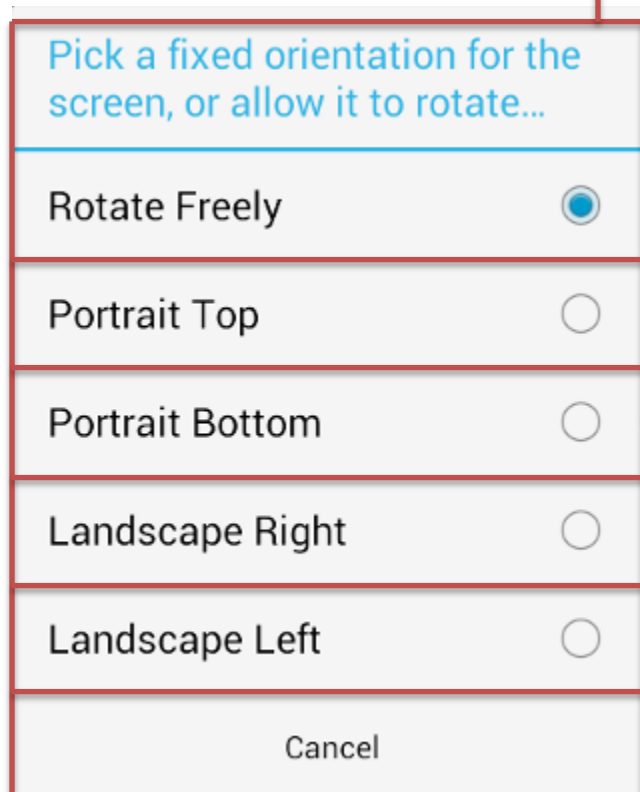
General



You can **Export Configuration** via email. This creates a `TinyTERM.ttconfig` container file that includes all connection configurations, keyboard and code page customizations, and printer settings saved in TinyTERM. This `TinyTERM.ttconfig` file can be imported into another device running TinyTERM for Android, or even into [TinyTERM Enterprise for iOS](#).

Screen Orientation determines the basic position of the TinyTERM emulator display. There are five available positions: (see below)

The **Clear Data** button clears all data from the Web Browser cache.



Rotate Freely: TinyTERM matches device orientation

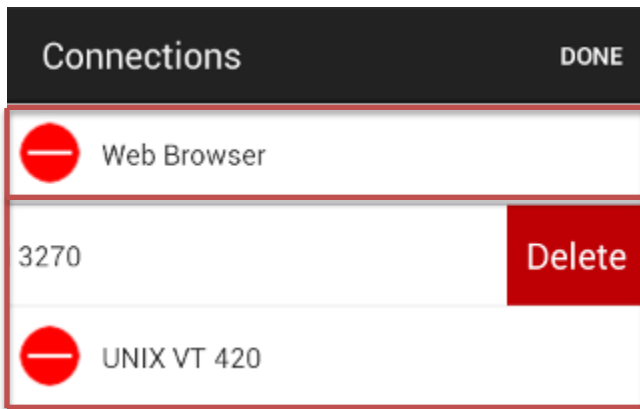
Portrait Top: locks TinyTERM into portrait mode, aligned with the top of the emulator screen

Portrait Bottom: portrait mode, aligned with the bottom of the emulator screen

Landscape Right: landscape mode, aligned with the right of the emulator screen

Landscape Left: landscape mode, aligned with the left of the emulator screen

Delete a Configuration



To delete a configuration, tap the **Edit** button at top right. When the edit circles come up, tap the one next to the configuration you want to delete. This pushes the configuration name to the left and brings up a **Delete** button.

Or while in the main list of configurations, swipe a finger over a configuration name from right to left. This also brings up the **Delete** button.

Tap the **Delete** button, and the configuration will be removed from the list. Tap the **Done** button to cancel the delete operation, or when done deleting configurations.

Using TinyTERM for Android

In addition to rock-solid connectivity, TinyTERM for Android has several features to increase usability and security.

Title Bar

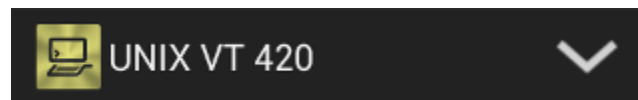
While connected, the title bar displays the name of the currently selected configuration and several buttons.



Web Browser title bar

In the Web browser, the title bar shows the current URL. The left and right arrow keys move back and forward through the browser history.

In terminal emulator sessions, the session name displays in the title bar.



Terminal Emulator title bar

In either mode, down arrow at the right opens the list of configurations, allowing you to [create new configurations](#) or [edit existing ones](#).

Pinch Zoom

TinyTERM fills the available screen not used by the keyboard. In portrait mode, the terminal font is sized to fit in the window. In landscape mode, the terminal emulator font sizes by default to its maximum zoom.

In either portrait or landscape, the Industrial Browser fits the current page to the screen width.

With pinch zoom, you can shrink the TinyTERM display to fit the entire available space, or expand it to focus on a portion of the screen. When zoomed in, you can move around the current screen with a finger swipe. This works in either orientation, for browser or terminal sessions.

External Keyboards

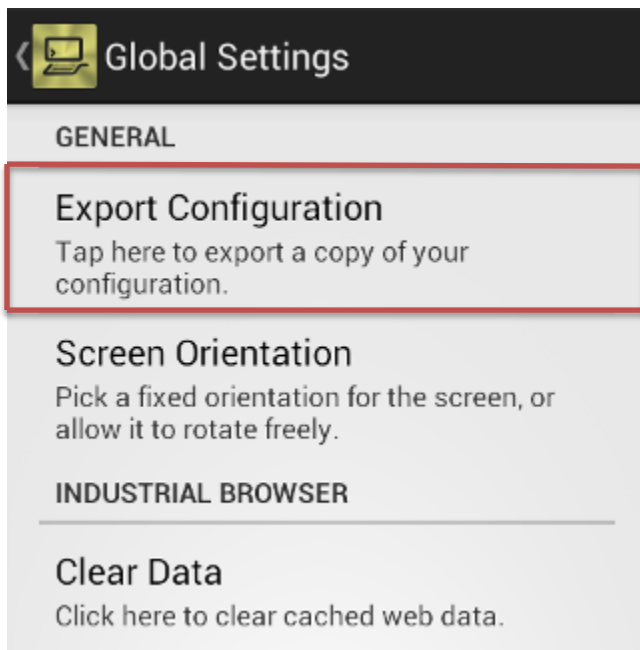
TinyTERM supports both USB and Bluetooth keyboards. This includes all alphanumeric keys, as well as symbols, **tab**, **return** and **delete** keys. TinyTERM also allows use of arrow, control and function keys from most external keyboards.

TinyTERM will also accept any device that uses the Bluetooth HID profile as a keyboard. This normally includes keyboards and barcode scanners, but can also include other devices. If in doubt, check with your Android device manufacturer to determine which HID peripherals are supported.

Export Settings

Once TinyTERM for Android is configured to user needs, you can export the settings via email. The settings can then be [imported](#) by other Android or iOS devices running TinyTERM.

Export Configuration

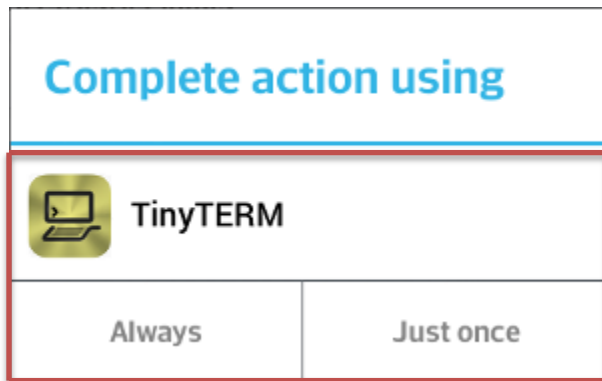


Tapping this button in the [Global Settings](#) generates a file named `TinyTERM.ttconfig`. The export file includes all configurations. It can be shared via email, Bluetooth, or file sharing applications such as Dropbox.

Once received, the file name may be changed as long as the `.ttconfig` extension is preserved; e.g., `Warehouse.ttconfig`. This allows you to maintain several configurations for different needs, and apply them quickly to new TinyTERM installs.

Sync Files

TinyTERM for Android can import `.ttconfig` files created on other Android or iOS devices. And `.tpx` connection files can be created or edited in [TinyTERM Plus for Windows](#), [TinyTERM for Mac](#) or [TinyTERM for Linux](#), then imported into TinyTERM for Android.



Once your file has been created, any application that allows file sharing with the Android device can transfer it to TinyTERM. This includes email attachments, [Google Drive](#) and similar apps. Select the email attachment or the app's share button to import the file.

This opens the list of applications that can use the file. Select **TinyTERM**, then tap **Always** to open the file. TinyTERM will import the file. If there are duplicate configuration names, TinyTERM will offer to replace the existing configuration of the same name. Once import has finished, TinyTERM comes to the foreground.

Using Imported Files

After importing a file, new sessions will display in the list of configurations. New keyboard layouts will be available in appropriate connections. Imported `.tpx` files are added to the list of configurations, with all available settings ported over.