

# Chords for S60 3<sup>rd</sup> Edition



*Version 1.01*

*User manual*

*and*

*Symbian Signed Pre-Test results*

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## Introduction

**Chords** is a simple application for S60 3<sup>rd</sup> edition smart phones, that displays variations of guitar chords on a virtual fretboard. The intention of this application is to help guitarists to find the chord he/she needs at any time and any place.

**Chords** doesn't use a chord database. The chord engine of PowerChord is used for chord calculation. The engine was written by Camilo Mesias.

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## Installation and start

### Installation

To install **Chords for S60 3<sup>rd</sup> edition** simply send it via Bluetooth or IrDA to the phone and install it with the Symbian installer. **Chords** can be installed either in phone memory or on a memory card (if present).

**Chords for S60 3<sup>rd</sup> edition** can only be installed on S60 3<sup>rd</sup> edition smartphones (Nokia N71, N91, N80 etc).

**Chords for S60 3<sup>rd</sup> edition** doesn't work on 2<sup>nd</sup> edition phones like Nokia 6680, N70 or N90. Use **Chords for S60 2<sup>nd</sup> edition** instead. It can be found on <http://www.ubahnstation.net/chords>.

### Start the Chords application

**Chords for S60 3<sup>rd</sup> edition** can be started like any other application on the phone by selecting the application icon in the menu of the phone and pressing the action key or select *Options->Open*.



Abbildung 1: Chords icon in the application launcher

Additional applications are usually located in the „My own“ folder.

## Use Chords for S60 3<sup>rd</sup> edition

### Main view

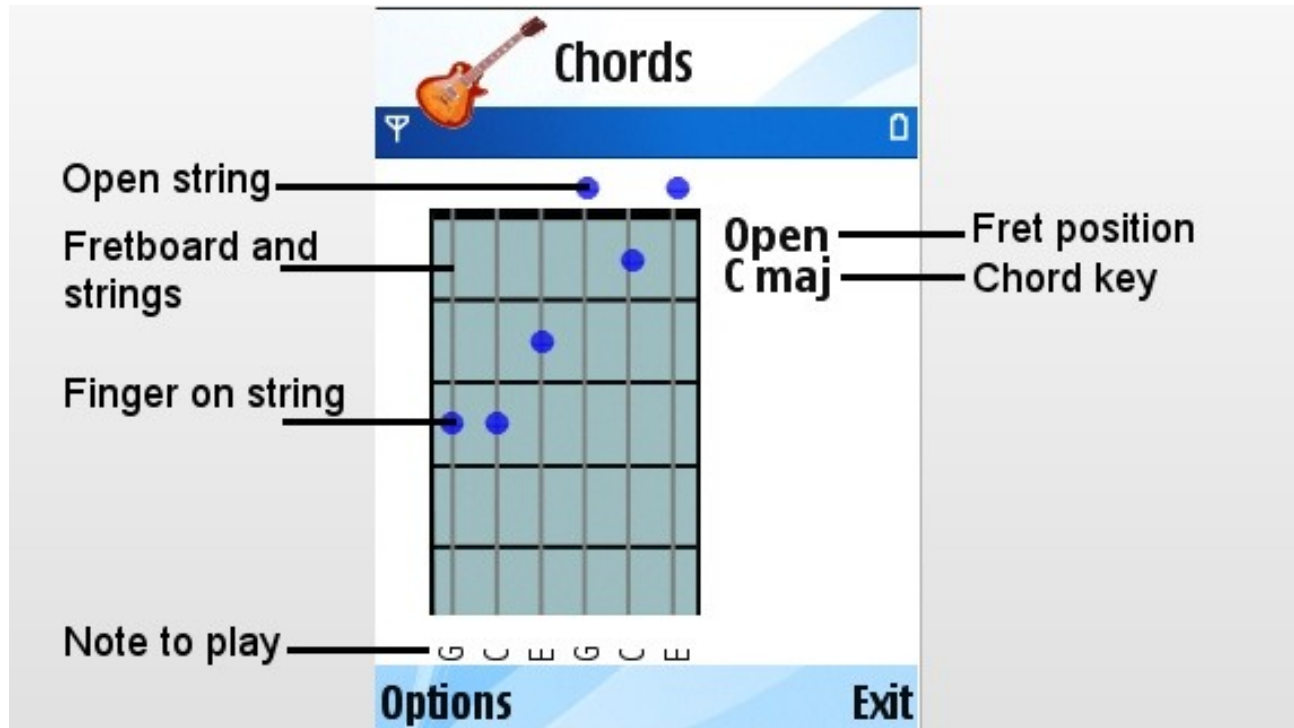


Abbildung 2: Chords for S60 3<sup>rd</sup> edition main view

The main view shows a virtual fretboard with 6 strings. The current version of **Chords for S60** supports only the standard tuning for guitar: E A D G B E. The next version will support alternate tunings also.

The blue dots on the fretboard show how a chord has to be played. Each dot represents a finger. Some chords can only be played, if a finger plays more than one string („bar chords“). If the dot is above the fretboard, this string has to be played open. A red cross above a string means, that this string has to be muted.

The name of the chord and the position of the first fret on the fretboard is displayed on the right side.

The note of each string of the chord is displayed below the fretboard.

To play the chord above (C maj, Open) put your fingers as follows:

E and A string to the 3<sup>rd</sup> fret,

D string to the 2<sup>nd</sup> fret

B string to the 1<sup>st</sup> fret

Play the strings G and E' open.

This will produce the notes G C E G C E which is C maj.

## Switch chords

### Select note

The base note of the chord can be selected with the *Options* menu:

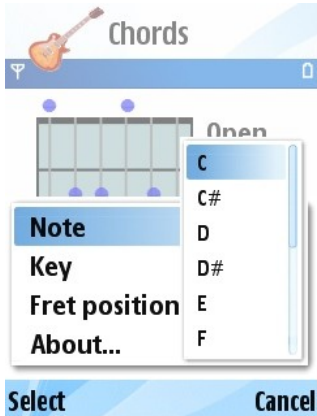


Abbildung 3: Select note

Each of the 12 notes C, C#, D, D#, E, F, F#, G, G#, A, A#, B can be selected.

### Select key

The key of a chord can either be selected with the *Options* menu or cycled with the navigation key (left or right).



Abbildung 4: Select key

Chord for S60 3<sup>rd</sup> edition knows the following keys: maj, min, 7<sup>th</sup>, m7, maj7, 6<sup>th</sup>, m6, aug, dim, sus4, 7sus4, 9, add9, m9, maj9, sus2, 7sus2, 11, m11, 13, m13, #13, 6|9, flat5, 7#9, dim7, 5.

### Select fret position

The fret position can either be selected with the *Options* menu or incremented and decremented with the navigation key (up and down).



Abbildung 5: Select fret

The position of the first fret for the chord can be 1 to 13 or open. Open chords contain open strings while chords from the 1<sup>st</sup> to the 13<sup>th</sup> fret usually don't.

# Symbian Signed

## Symbian Signed Test Criteria

Symbian Signed tests have been performed according the document „Symbian Signed Test Criteria Version 2.0.0“.

A Nokia N71 prototype device has been used for testing.

Firmware version:

V2.0550.1.e07.1

16-01-06

RM-67

<b>Test</b>	<b>Test result</b>
PKG-01	<b>Chords for S60 3<sup>rd</sup> edition</b> is freeware and is not signed with a valid ACS Publisher ID.
PKG-02	<b>Chords</b> is a simple application that doesn't perform any initialisation steps. It starts and operates as described.
PKG-03	<b>Chords</b> can be installed in phone memory or on a memory card. All files are installed on the same drive.
PKG-04	All files copied to the device during installaton will be removed. <b>Chords</b> doesn't create any files during runtime that have to be removed additionally.
PKG-05	<b>Chords</b> have been installed in phone memory and on MiniSD memory card. No files have been left after uninstallation.
PKG-06	Re-installation of <b>Chords</b> on the same drive can be performed without any problems. Re-installation on a different drive fails immediately with an „Update error“. The reason for the failure could be the prototype state of the test device.
PKG-07	UID: 0x20001B21 VID: 0
PKG-08	<b>Chords</b> Version 1.01(0)
GEN-01	<b>Chords</b> uses a fix amount of memory and waits for user input when active. If in background, <b>Chords</b> doesn't require any system resources and doesn't affect other applications.
GEN-02	<b>Chords</b> has just a few functions and waits for user input the most time. While waiting, any other application can run in the meantime. <b>Chords</b> doesn't allocate much memory and doesn't open any files. The need for handling exeptions and erroneus situations is very marginal.
MEM-01	A low memory tool for V9 isn't available yet. Memory tests have been performed on 2 <sup>nd</sup> edition phones with the following result: Test Count: 59

<b>Test</b>	<b>Test result</b>
	Test Failed: 5% Mem Leak: 0 Parameter: Min free heap: 40960 Increase per test: 1024 Application termination: System close Cancel testing after...: 5
MEM-02	<b>Chords</b> doesn't store any data in files and doesn't need to handle low memory situations.
PHN-01	<b>Chords</b> can handle interruptions due to incoming phone calls or alarm notification and will be moved to the background meanwhile.  Switching of UI modes couldn't be tested on the test device (N71) but works fine in the emulator.
PHN-02	<b>Chords</b> doesn't store any runtime states and is therefore inured to power loss. After restarting the application it shows the main view with the first chord (C maj, Open).
CON-01	<b>Chords</b> can be closed by pressing <C> in the tasklist.
CON-02	<b>Chords</b> doesn't use network connections, make phone calls or reads/writes any user data. A privacy statement dialog is not necessary.
CON-03	<b>Chords</b> doesn't initiate a premium billing instance.

## **Capabilities**

**Chords for S60 3<sup>rd</sup> edition** doesn't require any capabilities.

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