Chronotron - Change log

Release 103 (2018-05-04):

- Changed: The newer media playback engine is now enabled by default
- Improved: Minor UI enhancements and bug fixes

Release 102 (2018-04-12):

- New: Voice commands. The list of supported commands can be found here
- Improved: Reduced latency in Hold mode
- Improved: Minor UI enhancements and bug fixes

Release 101 (2018-03-01):

- New: The audio scroller now supports zooming via touch and mouse gestures
- Changed: The default Surface Dial mode is now Hold
- Improved: Minor UI bug fixes

Release 100 (2018-02-25):

- New: brightness, contrast and saturation video controls
- Changed: Moved all video adjustment controls to a separate pane
- Changed: Moved the switch Audio Scroller to the Options pane, under the Appearance section
- Improved: The horizontal and vertical video flipping switches also work when exporting media to disk
- Improved: Various UI enhancements and bug fixes

Release 99 (2018-01-05):

- New: A Speed control has been added to allow pure resampling
- Improved: Note detection has been enhanced
- Improved: UI layout enhancements and fixes
- Changed: The switches *Tempo and key sliders* and *Loop buttons* have been moved to the Options pane, under the Appearance section

Release 98 (2017-12-30):

- New: Bass Guitar has been added to the Instrument pane
- Changed: The app name has been changed from *Chronotron Speed Changer* to just *Chronotron*
- Changed: Moved the guitar custom tuning control and left-handed option to the Instrument pane

- Changed: The minimum supported Windows version is now Windows 10 build 15063 (Creators Update)

Release 97 (2017-11-29):

- Improved: Revamped UI for loop & markers

Release 96 (2017-11-18):

- New: A Surface Dial mode has been added to skip through markers and loop points
- New: Open URL function. Note: HTTP streaming is not supported at the moment - content is always downloaded and cached locally before playback
- Fixed: A previous release broke support for (old) playlists that use the "Windows 1257" character encoding. This has been fixed
- Fixed: A bug was fixed that caused the app to crash on track change when the audio scroller was visible
- Improved: DSP performance enhancements on ARM CPUs
- Improved: The Settings documentation has been updated with additional hints on performance parameters
- Improved: Minor UI bug fixes

Release 95 (2017-10-29):

- Improved: DSP performance enhancements on ARM and Intel Atom CPUs
- In this release more changes under the hood have been made to support upcoming features

Release 94 (2017-10-19):

- No new application package was released: the Release 92 package was removed from the store, making Release 93 the sole application package available for all supported versions of Windows 10 (build 14393 and later, as of this writing).

Release 93 (2017-10-13):

- Improved: Contact Developer now adds the app version to the email body
- Improved: DSP performance enhancements in all CPU architectures
- In this release the application target version has been changed to Windows 10 build 16299 (Fall Creators Update)

Release 92 (2017-09-18):

- New: Playlist files under the Music library now appear in the application library
- Fixed: The application could hang when playing some material and note detection is on
- Improved: DSP performance enhancements on recent CPUs

Release 91 (2017-09-14):

- New: Documentation for application settings can be found here and is also accessible from the Options pane
- New: Ability to switch the audio playback device - on systems having multiple sound cards - when using the alternative playback engine, which can be configured via the Options pane
- Improved: Playback now resumes automatically when hardware-dependent settings are changed
- Improved: Minor stability fixes and UI updates

Release 90 (2017-09-03):

- New: Balance control in the Adjustments pane
- Improved: Minor bug fixes and performance enhancements in the UI
- In this release some changes under the hood have been made to support upcoming features

Release 89 (2017-08-13):

- New: Configurable AutoSave functionality for playlists
- Improved: Ability to set and clear loop points from the Loop Editor pane
- Improved: Minor layout updates for small screens

Release 88 (2017-07-28):

- Improved: DSP performance enhancements

Release 87 (2017-05-30):

- Improved: More DSP performance enhancements
- Changed: The default quality setting on ARM devices is now "Very Good"

Release 86 (2017-05-20):

- New: ARM package (beta) is now available for upcoming Windows 10 desktop/tablet devices!
- Changed: The settings "Process audio on multiple CPU cores" and "Use video hardware acceleration" are now enabled by default
- Improved: The quality settings "Very Good" and "Good" have been revamped for a better balance between sound quality and CPU usage
- Improved: Significant DSP performance enhancements in all architectures

Release 85 (2017-04-20):

- New: Video can now be rendered to audio-only (.mp3, .m4a, .wav)
- Improved: Minor layout updates and bug fixes
- Improved: UI rendering fixes for Windows 10 build 14393

Release 84 (2017-03-12):

- Fixed: Implemented workarounds for stability issues with the Windows .flac codec
- Improved: Remove media from the playlist by sliding items to the left
- Improved: Performance enhancements when searching the media libraries

Release 83 (2017-02-19):

- Improved: Added tooltips to the transport buttons, and button labels are shown when the command bar is expanded

Release 82 (2017-02-16):

- New: Ability to search the local Music and Videos libraries
- Improved: Revamped Recent and YouTube™ flyouts
- Improved: Items in Recent can now be added to the current playlist

Release 81 (2017-02-04):

- Fixed: Changes that caused unstable video playback in Release 80 have been rolled back
- Removed: Deployment packages for Windows 8.1 are no longer available

Release 80 (2017-02-01):

- Improved: Updates to the YouTube™ downloader to cope with web site changes
- Improved: Performance enhancements
- Improved: Better management of the Surface Dial mode selection

Release 79 (2017-01-29):

- New: Surface Dial support!
- New: Audio can now be rendered to PCM .wav, in addition to .mp3 and .m4a
- New: A Purchase App menu option is now available during the trial period
- Improved: New keyboard shortcuts - the documentation can be found [here](#)
- Improved: DSP performance enhancements

Release 78 (2017-01-12):

- New: Visual indication of the reverse playback limit in the audio scroller in Hold mode
- Improved: Hold mode can now be entered while in paused state

Release 77 (2017-01-07):

- New: Use multiple CPU cores to increase DSP performance
- New: The maximum reverse playback length in Hold mode is now configurable
- Improved: More accurate video synchronization in Hold mode

- Improved: New keyboard shortcuts - the documentation can be found here
- Improved: UI bugfixes and performance enhancements

Release 76 (2017-01-01):

- New: The Undo/Redo state is now maintained for every file in the playlist
- New: Audio can now be rendered to .m4a, in addition to .mp3
- Improved: Fixed a bug that caused rendering of some media files to fail with error 'The parameter is incorrect'
- Improved: DSP performance enhancements

Release 75 (2016-12-21):

- Improved: Fixed a bug that caused the app to crash when playing files having a low sample rate
- Changed: The option "Cast shadows on transparent controls" is now disabled by default

Release 74 (2016-12-18):

- Improved: UI and DSP performance enhancements

Release 73 (2016-12-13):

- New: The number of markers has been increased to 10
- Improved: UI performance enhancements
- Improved: Minor UI updates

Release 72 (2016-12-09):

- New: A whole new user interface design!
- Improved: Fixed a bug that caused some videos not to open when Seamless Loop is enabled.

Release 71 (2016-11-13):

- This is a maintenance release to introduce some technical changes – no new functionality has been deployed

Release 70 (2016-11-02):

- New: Keyboard shortcuts - the documentation can be found here
- Improved: Minor bug fixing in playlist functionality

Release 69 (2016-09-29):

- New: The transport Loop button now lets you loop either the full playlist or just the current title
- Improved: Performance enhancements on x64
- Improved: Minor technical changes to the video processing pipeline

Release 68 (2016-09-23):

- New: Show on-screen controls automatically when the playlist ends
- New: 64-bit binaries are now included in the app deployment package
- Improved: Minor bug fixes in the video processing pipeline

Release 67 (2016-09-13):

- New: The application theme (Dark vs. Light) can now be configured

Release 66 (2016-09-01):

- New: System notification on the first run after the app has been updated
- New: Files (either playlists or media) can be dragged from Windows Explorer into the playlist pane
- Improved: Fixed a bug that caused the app to crash sometimes when removing items from the playlist
- Improved: Various performance enhancements in the UI

Release 65 (2016-08-26):

- New: Selectable instrument patches
- Improved: Better synth volume curve
- Improved: Minor bug fixes and layout improvements

Release 64 (2016-08-11):

- This is a maintenance release to fix app startup issues for computer running Windows 10 builds prior to the Anniversary update

Release 63 (2016-08-10):

- New: Note detection display on the guitar fretboard now uses only one string to show each note
- New: Higher quality piano and guitar patches
- Improved: A lot of minor fixes and layout improvements

Release 62 (2016-07-29):

- New: Windows 10-specific package with revamped UI

Release 61 (2016-07-16):

- Improved: Minor bug fixes to the YouTube™ downloader

Release 60 (2016-06-25):

- Improved: Updates to the YouTube™ downloader to cope with web site changes

Release 59 (2016-06-11):

- New: Loops are now seamless
- Improved: Minor fixes to Shuffle mode

Release 58 (2016-05-28):

- New: Shuffle function for playlists
- Improved: The video recording target folder and the YouTube™ download folder are now configurable

Release 57 (2016-05-20):

- New: Optionally apply selected media parameters to the whole playlist, as opposed to individual files
- Improved: Open multiple files from Windows Explorer (requires the app to be set as the default program to open media files)
- Improved: Minor bug fixes

Release 56 (2016-05-15):

- New: Undo and redo for all per-file parameters
- New: Revert to previous playlist (i.e. "oops") button
- Improved: Minor bug fixes and performance enhancements

Release 55 (2016-04-26):

- New: Loop Editor to manually adjust loop in/out times
- New: Background audio playback
- Improved: Fixed a bug that caused the app to crash when adding multiple items to the playlist
- Improved: Per-file parameters are now saved more often

Release 54 (2016-04-07):

- Improved: Low-latency playback is now configurable (enabled by default)

Release 53 (2016-03-10):

- Improved: Minor bug fixing in the YouTube™ downloader

Release 52 (2016-03-05):

- Improved: Error messages can display additional technical details

Release 51 (2016-02-27):

- Improved: General layout updates (flat ribbon buttons and redesigned progress bar)

- Improved: Updates to the YouTube™ downloader to cope with web site changes
- Improved: Fixed a crash when using the center channel isolation mode on some material

Release 50 (2016-02-08):

- New: Solo Channel now includes a center channel isolation mode
- Improved: Note detection has been greatly improved
- Improved: Better sound quality when Natural Key is enabled
- Improved: Performance improvements on recent CPUs
- Improved: Reordering the playlist by drag & drop has been implemented again (the Windows 10 bug has been fixed by KB3124262)

Release 49 (2016-01-09):

- New: Ability to rename markers
- Improved: Minor bug fixing to the Hold mode (incomplete video frames with some videos)

Release 48 (2016-01-02):

- New: Repeat Playlist button
- Improved: Artist and duration display in playlist items
- Improved: Added support for (old) playlists that use the Windows 1257 character encoding
- Improved: Better formant preservation in the Highest quality setting
- Improved: Performance enhancements

Release 47 (2015-12-21):

- Improved: Minor bug fixes and cosmetic UI improvements
- Improved: Updates to the YouTube™ downloader to cope with web site changes

Release 46 (2015-12-09):

- New: Volume control
- Improved: Move Up and Move Down buttons to the playlist for better accessibility
- Improved: Confirmation when removing items from the playlist
- Improved: New Highest quality setting. The previous Highest quality setting has been mapped to Very High
- Removed: Reordering the playlist by drag & drop has been temporarily removed because it stopped working due to a bug in the OS (Windows 10 release 1151)

Release 45 (2015-11-16):

- Improved: Minor bug fixing to the Playlist and Recent functionalities

Release 44 (2015-11-13):

- New: "Recent" function for playlist files and playlist media
- Improved: "Open with" on Windows Explorer now supports .m3u files as well
- Improved: Updates to the YouTube™ downloader to cope with web site changes

Release 43 (2015-11-02):

- New: Playlist functionality
- Changed: The Audio and Video tabs have been merged into a single Adjustments tab
- Improved: A few minor layout issues have been fixed

Release 42 (2015-10-04):

- New: 10-band graphic equalizer
- Improved: Minor UI updates

Release 41 (2015-09-27):

- Improved: Fixed a couple of regression issues present in Release 39

Release 40 (2015-09-25):

- Improved: Fixed a bug that caused the app to crash during startup on some systems

Release 39 (2015-09-14):

- Improved: Fixed a bug that caused playback to be muted after Hold

Release 38 (2015-09-13):

- Improved: General layout enhancements
- Improved: More functions have been moved to the ribbon: snap key changes to semitones, toggle audio scroller visibility and key change settings

Release 37 (2015-08-29):

- Improved: Added keyboard support to the ribbon
- Improved: Rewind/FF using the left/right arrow keys while the Play button has the focus

Release 36 (2015-08-23):

- Improved: Added guitar fret numbers
- Improved: Note detection now has better accuracy
- Changed: The Rate and Contact buttons were moved from the About page to the ribbon

Release 35 (2015-08-15):

- New: Revamped and better organized UI

- Improved: A lot of performance enhancements and bug fixes

Release 34 (2015-07-25):

- New: Choose the piano keyboard or a guitar fretboard to support transcription
- Improved: You can now hold the Skip buttons to repeat their action

Release 33 (2015-06-28):

- New: Synchronized metronome click track based on manual tempo entry or tapping

Release 32 (2015-05-27):

- New: "Pianogram" option in the piano keyboard that highlights the notes being heard!
- Improved: Piano keys are now labeled correctly
- Improved: The Hold mode now mutes the sound on zero tempo
- Improved: Performance enhancements and bug fixes

Release 31 (2015-05-14):

- Improved: Piano keyboard – ability to zoom, remember the scrolling position and volume, longer note release.

Release 30 (2015-05-13):

- New: Built-in piano keyboard to ease music transcription
- Improved: User preferences that do not depend on hardware are now maintained across devices
- Improved: Minor layout improvements

Release 29 (2015-04-28):

- Improved: Fixed a bug in the "Open With" functionality

Release 28 (2015-04-23):

- New: Open supported media files from Windows Explorer ("Open With")
- New: Flip video horizontally and/or vertically
- New: Buttons to jump backward and forward 5 seconds

Release 27 (2015-04-04):

- New: Tempo and key calculator with support for math expressions
- Improved: Minor stability fixes

Release 26 (2015-03-22):

- New: Revamped and better organized UI
- Improved: Now the ruler can be used even when not in Hold mode
- Improved: YouTube™ search results now include the clip duration
- Improved: Stability fixes
- Improved: The Windows 10 compatibility switch has been removed – it is no longer needed on Windows 10 build 10041

Release 25 (2015-02-09):

- Improved: layout improvements to the YouTube™ Search and Recent flyouts

Release 24 (2015-01-29):

- Improved: YouTube™ search results and layout improvements

Release 23 (2015-01-26):

- New: Built-in simple YouTube™ downloader
- New: Windows 10 compatibility setting
- Improved: General bug fixes and performance improvements

Release 22 (2015-01-18):

- Improved: Accuracy improvements and minor fixes in Hold mode
- Improved: General bug fixes and performance improvements

Release 21 (2015-01-14):

- New: Optional waveform display during Hold mode
- Improved: Minor fixes and stability improvements

Release 20 (2015-01-06):

- New: The Solo Channel function now includes an L - R mode when playing stereo files
- Improved: Audio export format has been switched to MP3
- Removed: The "Allow reverse playback" setting was removed. Reverse playback is now allowed by default

Release 19 (2014-12-31):

- New: The Solo Channel function now includes a MONO mode
- Improved: Better preservation of the stereo image when changing tempo
- Improved: Direct access to the Change Log from the About pane
- Improved: Minor fixes and performance enhancements

Release 18 (2014-12-07):

- Improved: Fixed some regression bugs after the UI revamp

Release 17 (2014-11-21):

- New: Ability to export to disk
- New: Revamped and better organized UI
- Improved: Force display to stay on during playback
- Improved: Hold mode has been made even more precise

Release 16 (2014-10-14):

- New: Export and import all file settings at once as a text file
- New: Key change with optional formant preservation
- Improved: Minor fixes and performance enhancements

Release 15 (2014-10-09):

- Improved: Fixed a bug that caused the application to become irresponsive after being suspended

Release 14 (2014-10-07):

- New: Per-file settings are now accessible as text so they can be copied manually across systems
- Improved: The key range has been extended to +/-12 semitones
- Improved: Video acceleration now works across a wider range of devices

Release 13 (2014-09-27):

- New: Global setting to enable or disable automatic playback on open
- New: Per-file configuration setting to remember playback position
- Improved: Loop functionality has been improved
- Improved: Minor fixes and stability improvements

Release 12 (2014-09-16):

- Maintenance release to address stability issues

Release 11 (2014-09-15):

- No new software was released. Trial period extended to 7 days

Release 10 (2014-09-08):

- New: Configurable audio quality including high-quality settings
- New: Setting to enable video hardware acceleration
- Improved: Minor fixes and stability improvements

- Improved: Major performance improvements

Release 9 (2014-08-10):

- Improved: Reduced memory requirements
- Improved: Fixed a bug that caused video to show random green frames on some devices
- Improved: Minor fixes and stability improvements

Release 8 (2014-07-28):

- New: Recently Used Files list

Release 7 (2014-06-25):

- New: The application name was changed to Chronotron Speed Changer
- New: Localization for ES, FR
- Improved: Minor bug fixes

Release 6 (2014-06-14):

- No new software was released. Promotional images were added

Release 5 (2014-06-09):

- New: record videos directly from the app
- New: added support for WAV files
- New: Solo-Channel mode isolates individual channels in stereo or multichannel files
- Improved: Swipe-to-Advance mode is now more reactive
- Improved: All UI elements are now accessible via the keyboard

Release 4 (2014-04-27):

- Improved: Swipe-to-Advance mode

Release 3 (2014-04-09):

- New: Swipe-to-Advance mode

Release 2 (2014-03-03):

- New: Markers can be set to memorize up to 5 positions in a media file

Release 1 (2014-02-18):

- Initial Chronotron Mobile release