# **Functionality Enhancement and Feature Requests:** This theme includes requests for new features, improvements in functionality, and suggestions for adding new capabilities to the software. Codes related to this theme include:

* + Feature Implementation Requests (Code 1)
  + Feature Request - Functionality Enhancement (Code 13)
  + Feature Request: UI Enhancement
  + Feature Request: Audio Processing Enhancement
  + Feature Request: Accessibility Improvement
  + Feature Request: Announce Version in About Screen
  + Feature Request: Configuration File for Rack Mode
  + Feature Request: Improved ADSR Editing
  + JUCE Integration Update
  + Script Version Update with OSX Support
  + OSX Compatibility Confirmation
  + VST3 Port Request
  + Feature Request: Solo Functionality
  + Feature Request - Mix Groups
  + Feature Request - Preset Management
  + Feature Request - Input/Output Signal Visualization
  + Question - Purpose of AUTHORING Mode
  + Feature Request - Square Waves for Operators
  + Feature Request - Parameter Automation
  + Feature Request - CLAP Plugin Version
  + Feature Request - Window Resizing Option
  + Feature Request - Velocity Adjustment for MOD OUT Amount
  + Feature Request - MIDI Controller Support
  + Feature Request - Add a Favorites Option for Modules
  + Feature Request - Automatic Fresh Binaries
  + Feature Request - Dependencies List
  + Feature Request - Single-Precision Optimizations
  + Feature Request - Touch Support on the Website
  + Feature Request (61, 76, 5, 9)
  + Module Suggestions (83)
  + License Recommendations (84)
  + Carla Integration Issue (85)
  + Feature Requests (77, 23)
  + Feature request (4)
  + Feature request: Generic ADSR envelope generator
  + Feature request: Explore sonic character of simplex noise
  + Feature request: Implement Perlin noise warping
  + Feature request: Add pitchbend support
  + ADSR Envelope
  + Bitwig Integration
  + MIDI Control
  + Tuning and Voice Management
  + Audio Output
  + LV2 Plugin Development
  + Feature Requests
  + MIDI Control Feature Request
  + Packaging Request (Ubuntu/Debian)
  + Feature Requests
  + Packaging Issues
  + Feature Requests and Enhancements
  + Feature Requests
  + Feature Request: Mono Version
  + Feature Request: Parameter Naming
  + Feature Request: Wow Processing Enhancement
  + iOS Integration Request
  + Feature Request: Preset Navigation
  + Feature Request: Degrade Section Enhancement
  + Feature Requests
  + Request for 32-bit VST DLL
  + Request for Additional Knobs
  + Request for Additional Features
  + Feature Request - VCV Rack Portability
  + Feature Request - Frequency Response Control
  + Feature Requests (Code 24, 32, 40)
  + Request for ARM Support (Code 26)
  + Feature Request
  + Feature request - Tooltip support
  + UI/UX Issue
  + Documentation Issue
  + Algorithm Question
  + Functionality Request
  + Feature Request: Standard and Advanced Mode
  + User Interface/Experience Improvement (Code 3)
  + Software Configuration Suggestions (Code 7)
  + UI responsiveness issue (Code 22)
  + UI tweak suggestion (Code 26)
  + Hover effect suggestion for menu items (Code 28)
  + Feature Request: AppImage for Linux
  + Feature Request: Note Quantizer
  + Missing feature suggestion (Code 21)

# **Bug Reports and Issue Resolution:** This theme encompasses reports of issues, malfunctions, compatibility with various platforms, or anomalies within the software, as well as indications of their resolution or fix. Codes related to this theme include:

* + Bug Reports (Code 2)
  + Bug Report - Display Issue (Code 8)
  + Segmentation fault issue (SIGSEGV) (Code 15)
  + Window resizing issue (Code 16)
  + Dependency issue (Code 17)
  + Technical Issue: Bug Fixing
  + KSL Bug in Opal
  + Bug Report: Reaper Crash on Mac
  + Bug Fixing: Reaper Crash Resolution
  + Bug Report: Patch Loading Issue
  + Bug Report: Audio Distortion Issue
  + Plugin Version Information Issue (27)
  + Environment Setup (28)
  + Bug report: Negative array indexing in Noise::gen method
  + Bitwig Integration
  + MIDI Control
  + Tuning and Voice Management
  + Audio Output
  + LV2 Plugin Development
  + Bug Reports
  + MIDI Configuration Issues
  + Plugin Issues
  + HiDPI Support
  + Sound Quality Issues
  + Link Accessibility
  + Plugin Functionality
  + UI/UX Improvements
  + Standalone Application Issues
  + MIDI Control and Integration
  + Translation and Localization
  + Bug Reports
  + Packaging Issues
  + Installation Issue (Binary Location)
  + Crash Report (Reaper)
  + Translation Issue (Pot File Generation)
  + LV2 Plugin Loading Issue
  + MIDI Channel Issue
  + Bug Report - High CPU Usage
  + Bug Report - Loss Effect Units
  + Bug Report - Clicking Noise in Ring Modulators
  + Bug Report - Recording Failure in 4klang
  + Bug Report - Plugin Crash on Loading
  + Bug Report - GUI Crashing DAW
  + Bug Report - Patch Loading Issue
  + Bug Report - VST Automation Issue
  + Bug Report - Missing Pitch Bend Support
  + Bug Report - Plugin Crash on Loading
  + Bug Report - Decay Phase Issue
  + Bug Report - Envelope Adjustment Precision
  + Bug Report - 1-shot LFO Behavior
  + Bug Report - Crash on Wayland
  + Bug Report - Incorrect LFO Behavior
  + Bug Report - Theme Switching Issue
  + Bug Report - Ableton Crash on VST Click
  + Bug Report - Decay Phase Issue
  + Bug Report - Envelope Adjustment Precision
  + Bug Report - Plugin Load and Functionality Issues
  + Bug Report - GUI and Display Issues
  + Bug Report - Assertion Failure
  + Bug Report - MIDI Issue
  + Bug Report - Save/Load Issue
  + Bug Report - Scrolling/Crash Issue (Module List Window)
  + Bug Report - Keyboard Input Issue
  + Bug Report - OSDialog Issue
  + Bug Report - Bitwig UI Integration Issue
  + Bug Report - Polyphony Issues
  + Bug Report - Plugin Load and Functionality Issues
  + Bug Report - GUI and Display Issues
  + Bug Report - License and Legal Issues
  + Performance Issue (Cardinal)
  + Audio/Output Issue
  + Video Playback Issue
  + Scrolling Functionality Issue
  + Crash (Bitwig)
  + GUI/UI Issue
  + Functionality Issue (Clock Sync)
  + Project Reload Issue (Reaper)
  + Documentation Issue
  + Library Integration Issue
  + Assertion Failure
  + Scrolling/Crash Issue (Module List Window)
  + Keyboard Input Issue
  + OSDialog Issue
  + Bitwig UI Integration Issue
  + Dependency Issues
  + Installation and Setup
  + Bug Reports
  + Licensing Issues
  + Functionality/Usage Issues
  + GUI/Display Issues
  + Performance Issues
  + Standalone Issues
  + Integration Issues
  + Documentation/Configuration Issues
  + Polyphony Issues
  + Plugin Load and Functionality Issues
  + GUI and Display Issues
  + License and Legal Issues
  + Equalizer APO Plugin Loading Issue (Code 2)
  + Stereo Output Configuration Issue (Code 3)
  + Platform-Specific Plugin Availability Inquiry (Code 4)
  + OBS Interface Issue (Code 5)
  + Equalizer APO Setting Display Issue (Code 6)
  + Expired Artifacts Issue (Code 1)
  + Plugin Usage and Installation (Code 28)
  + Issue Description (29)
  + Technical Details (30)
  + Reference to GitHub Issues (31)
  + Font Installation (32)
  + Parameter Automation (34)
  + SFZ Auto-Reloading (35)
  + Visual Issues (36)
  + File Installation Issue (39)
  + Dependency Installation
  + Source Directory Cleanliness
  + X Error Handling
  + Lintian Missing Source Warning
  + JUCE Cloning
  + Debugging Command Line
  + ADLplug Usage Instructions
  + Savi State Saving
  + File Reference
  + Dependency Issues
  + Packaging Issues
  + Testing and Deployment
  + General Comments/Questions
  + UI Scaling Issue
  + Phase Issue with Dry/Wet Knob
  + Version Number Display Issue
  + Bug Report - Slider Behavior
  + Bug Report - Ableton Live Crash
  + Bug Report - Broken Download Link
  + Stability/Performance Issues (68, 3, 43)
  + Dependency/Installation Issues (69, 5, 7)
  + Environment Configuration Issues (71)
  + Versioning/Release Issues (72)
  + Documentation Issues (75, 24)
  + Assertion Error (91)
  + Error Handling (30)
  + CMake Integration (32)
  + Dependency Management (35)
  + Bug Reports (38, 43)
  + Usage and Utility (40)
  + Technical References (41)
  + Bug Reproduction Procedure - Reaper macOS
  + Linux Installation Issue with GLIBC Version
  + JSON Configuration Loading Issue
  + Reaper Automation Quirks Observation
  + Arch Linux Installation Issue
  + JUCE Web Browser Dependency Issue
  + OSC Issues in Version 1.5.0
  + Decoder Magnitude Measurement Discrepancy
  + SPARTA Plugin Debugging Error
  + Crash Reports
  + Configuration Issues
  + Performance Concerns
  + Testing and Verification
  + GUI and UI Issues
  + Miscellaneous
  + Dependency Management
  + Dependency Management - SDK Compatibility
  + Program Bug
  + Bug Fixing: Preset Loader Issue
  + Bug: CLAP Note Dialect Issue
  + Bug: Scene LFO Decay Issue
  + Dependency Bug
  + Bug: Velocity 0 Note Off Issue
  + Bug: Filter Analysis Window Issue
  + Bug: Surge Crash on Patch Save
  + Bug: Surge VST3 Silent Issue
  + Bug: Impulse Wavetable Crash
  + Bug: Surge VST3 Exciter Issue
  + Bug: Surge XT Skin and Filesystem Issue
  + Bug: Filter and Amp EG UI Issue
  + Bug: Step Sequencer Modulator Issue
  + Bug: Oscilloscope Button Issue
  + Bug: Surge GUI Resize Issue
  + Graphical glitch issue (Code 19)
  + Cursor warping issue (Code 20)
  + Banding issue with gradients (Code 23)
  + DC offset concern (Code 25)
  + Reporting a recurring issue (Code 29)

# **Community and Communication:** This theme involves actions or discussions related to community engagement, communication channels, and collaboration tools. Codes related to this theme include:

* + Creation of Gitter Chat Room (Code 2)
  + French Canadian Keyboards

# **Build and Compilation Issues:** This theme involves errors or difficulties encountered during the build and compilation process of the software or plugins. Codes related to this theme include:

* + Compilation Issue (Code 8)
  + Build System Issue (Code 14)
  + Compilation and Build Errors (Code 38)
  + Platform-Specific Issues (37)
  + Plugin Usage and Installation (Code 28)
  + MIDI Usage on Windows (40)
  + Compilation errors
  + Compiler Support
  + Compiler and Environment Information
  + Build issue: LinuxMakefile compilation error
  + Bug Report - Build Failure on Nightly Cargo Toolchain
  + Build/Installation Issue
  + Building Cardinal
  + Installation/Build Issues
  + Build Error (Windows)
  + VST3 Build on Raspberry Pi (33)
  + Build Configuration (38)
  + Build Configuration
  + Build Error on Raspberry Pi
  + Build Errors/Issues
  + Build Error on Linux GCC
  + Build/Compilation Issues (67, 8, 39, 44, 47)
  + Documentation and Build Script Issues
  + Building and Compilation Issues (Code 20)
  + OS Compatibility (FreeBSD/TrueOS)
  + Compilation Issues
  + Compatibility Issue (VST Plugin)
  + Compilation Error
  + Plugin Compilation Failure
  + Bug Report - Compilation Error (Linux Specific)
  + Bug Report - Compatibility Issues (macOS)
  + Compatibility Issue (Bitwig, Ableton, Reaper)
  + Compatibility Issues
  + Compilation Error (Linux Specific)
  + Compatibility Issues (macOS)
  + Compilation Error (Windows)
  + Compatibility Issues (Code 11)
  + Compatibility Issues with Applications (Code 22)
  + Compatibility/Installation Issues (Code 36)
  + Compatibility and Platform Support (Code 30)
  + Bitwig Compatibility Issue (Code 3)
  + VST2 Compilation
  + Compiler Configuration
  + Compilation Errors
  + Compatibility/Platform-specific Issues
  + Compatibility Issues (70, 4, 22)
  + Compilation Error - LTO Version Mismatch
  + Compilation Issues
  + Compatibility Issues
  + Compatibility Issues
  + JUCE Version Upgrade (Code from OS-251 issues)
  + Dependency Update (Code from OS-251 issues)
  + Webpack Dependency Update (Code from OS-251 issues)

# **User Feedback, and Documentation Clarifications:** This theme includes user feedback, and requests for clarification or improvement in documentation. Codes related to this theme include:

* + Default Settings (Code 10)
  + Documentation Issue (Code 15)
  + Implementation clarification
  + Documentation Clarification (Code 41)
  + Documentation improvement suggestion
  + User Interface Issue (4)
  + UI Contrast and Element Differentiation (21)
  + Node Name Correction (15)
  + Performance Optimization
  + SV Filter Behavior (16)
  + Review Request
  + Documentation and Build Script Issues
  + Delay due to Enjoyment
  + Request for Review
  + Installation Guide Suggestion
  + Neural Network Porting Suggestion
  + Artifact Report with Chimes Sounds
  + Feedback on Wow and Flutter
  + Feedback on Hysteresis Clicks
  + Documentation/Configuration
  + Testing and Deployment
  + Compatibility/Platform-specific Issues
  + General Comments/Questions
  + User Interface/Experience (UI/UX) Issues (66, 6, 18, 26)
  + UI Rendering Issue (87)
  + UI Redesign Inquiry (18)
  + Display Issues (20)
  + Manual Changes Needed (40)
  + MIDI Features and SysEx (46)
  + Sysex Handling (48)
  + Issue with Opening Axiom UI (17)
  + Node Value Display Anomaly (25)
  + Portal Controls Visualization (27)
  + Parameter Allocation Uncertainty (28)
  + Crash on Connecting Index Node (29)
  + DAW Integration Consideration (30)
  + Axiom Loading Error in FL Studio (32)
  + Compiler Panic with Group Nodes (43)
  + Compilation Issues
  + Compatibility Issues
  + Documentation and Build Script Issues
  + Testing and Verification
  + GUI and UI Issues
  + Compatibility Issues
  + Miscellaneous
  + Documentation maintenance suggestion
  + Website maintenance suggestion
  + GUI layout proposal
  + Software usage issue identification
  + Feature implementation announcement
  + Code renaming for generic modules
  + Request for confirmation
  + Donation support acknowledgment
  + Algorithm issue - Delay parameters
  + Code implementation - DfxGuiEditor::copySettings
  + Documentation addition
  + Noise Suppression Configuration (Code 27)
  + Usage/Configuration Queries (Code 39)
  + Patch and Update Related (Code 25)
  + GitHub Actions Fix (Code from OS-251 issues)

# **Code Changes and Optimization:** This theme includes code changes, code fixes, code optimization and code related errors. Codes related to this theme include:

* + Mathematical Equation: Presentation Slide
  + Code Optimization: Variable Usage
  + Code Revision: Variable Reset
  + Coredump
  + Code Modification
  + Prebuilt JavaScript Object
  + Default Value Assignment
  + Source Directory Cleaning
  + X Error Handling
  + Command Line Information
  + Code optimization
  + Code Segmentation Fault Fix
  + Code Contributions/Version Control Issues (74)
  + Code Modification (31)
  + Code Refactoring (36)
  + Code Source and Attribution
  + Parameter Separation
  + Hex Code Request
  + Code cleanup
  + Unused sqlite features removal

# **Development Discussions:** This theme includes codes related towards development discussions such as TODO lists, help wanted or development updates. Codes related to this theme include:

* + Technical issue identification
  + Compiler warning investigation
  + Makefile suggestion
  + Bug reports
  + Module Comparison
  + Logging Features
  + UI Changes
  + Transmission of Programs UI to RT by FIFO
  + Comparison with Other Software
  + DRO2MIDI Solution
  + Integration Request
  + DAW Reproduction Issue
  + Tooltip Enhancement
  + Usage of Emulators
  + Git Clone Instructions
  + CPU Usage Issue in DAW
  + TODO List
  + Applying Instrument Changes
  + UI Enhancement
  + RT Update Requirements
  + Macro definition issue
  + Issue Fixes
  + Randomization algorithm update
  + Stereo vs. mono output
  + Version metadata management