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# Introduction: Welcome to REALIZE

## Embracing the REALIZE Experience



Welcome to REALIZE, the groundbreaking virtual ensemble plugin that generates expressive, authentic performances directly from your MIDI score. Designed for composers, producers, musicians, educators, and students, REALIZE offers over 100,000 sampled phrases (featuring more than 260,000 notes) in the orchestral brass library, meticulously crafted from recordings of real musicians. This introductory chapter is your first step into the world of REALIZE, where musical creativity meets stunning realism.

## Identifying the Target Audience

REALIZE caters to a diverse range of users:

- Composers and producers looking to create professional-quality orchestral arrangements for various media.
- Musicians and hobbyists eager to explore the realm of orchestral sounds with authentic instrumentations.
- Educators and students aiming to enhance music education through digital orchestration.

## **Exploring the Features of REALIZE**

REALIZE stands apart by analyzing MIDI data to understand musical phrasing, dynamics, and articulations, translating them into expressive performances. Each instrument in REALIZE's extensive library boasts a variety of articulations, dynamic layers, and subtle variations, ensuring music renderings resonate with authenticity and depth.

## **Highlighting Key Benefits**

REALIZE offers considerable benefits:

- Transform MIDI into expressive orchestral performances with a vast library.
- Enjoy an intuitive, user-friendly interface.
- Gain detailed control over phrasing, dynamics, articulations, and more.
- Experience seamless DAW integration.
- Customize REALIZE to your preferred mixing approach for creative freedom.

## **Understanding System Requirements**

For the latest system requirements, please refer to the official REALIZE website.

## **Preparing for the REALIZE Journey**

As we embark on this journey with REALIZE, the upcoming sections will guide you through setting up your first project, fine-tuning individual notes, and unleashing your musical imagination. Get ready to transform your MIDI compositions into orchestral masterpieces with REALIZE!

# User Interface Guide: Navigating REALIZE

## Overview of the REALIZE Workspace



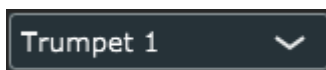
Begin your orchestral journey with the user interface of REALIZE, meticulously designed for clarity, efficiency, and creative flow. This chapter introduces you to the key components of the interface, equipping you with the knowledge to navigate with ease and confidence. Delve into each element, from the buttons and dropdowns to the multifaceted panels, and discover how they collectively enhance your orchestral creation process.

## Taking the First Step



Your musical adventure starts with the [Transcription Button](#). This feature imports your MIDI file and converts it into score notation, setting the stage for your performance. As REALIZE intelligently matches and adapts sampled phrases to your composition, witness your music come to life in a new dimension.

## Narrowing Your Focus



Explore your musical identity with the [Instrument Dropdown](#). This tool allows you to select which instrument track populates your visualizations and responds to your adjustments. Learn how this feature can streamline your creative process and bring clarity to your orchestral vision.

### Techniques for Score Crafting



At the core of REALIZE lies the [Notation Panel](#), a space where musical phrasing is visualized and brought to life. This section delves into how to effectively use the panel to manipulate accents, articulations, and dynamics, transforming your MIDI data into a masterful score. Discover the art of fine-tuning each motif in your composition to your exact preference.

### Getting into the Details

A screenshot of a software interface window titled 'Information'. It contains a table with four columns: NOTE ON, LENGTH, PITCH, and MARKS. Below the table, it lists 'MOTIF' details: Phrasing: Nonlegato and Dynamics: ff.

NOTE ON	LENGTH	PITCH	MARKS
0:07.390	170ms	Bb3(70)	[>][.]
0:07.560	195ms	F3(65)	[>]
0:07.755	221ms	Eb4(75)	[>]
0:07.976	183ms	F4(77)	[>]

MOTIF  
Phrasing: Nonlegato  
Dynamics: ff

The [Information Page](#) is your resource for examining the intricate details of your motifs. From note onset and length to pitch, accents, articulation marks, and the dynamics of your motif, this section provides a comprehensive view, enabling you to scrutinize and perfect every aspect of your composition at a glance.

## Mastering Sound Sculpting



The [Waveform Panel](#) is where your sound shaping takes place. In this section, learn to use waveform visuals to refine intonation, position, articulation, and transitions for each note. Empower yourself to fine-tune the audio characteristics of your composition, ensuring every note aligns perfectly with your artistic intent.

## Perfecting Performance Curation



This section guides you in curating your orchestral performance with precision. Utilize the [Source Sample Dropdown](#) and [RMD Filters](#) to select the most fitting samples for your composition. Here, you'll learn how to match each note's character with your envisioned expression, elevating the overall impact of your performance.



## Managing the Global Parameters

The image displays the Multifunction Panel in REALIZE, organized into six tabs. Each tab contains a table of parameters and controls.

Monitoring		
INSTRUMENT	SOLO	MUTE
Horn 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Horn 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Horn 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Horn 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Routing	
INSTRUMENT	OUTPUT
Horn 1	ASI Output Main
Horn 2	ASI Output Main
Horn 3	ASI Output #1
Horn 4	ASI Output #2

Balance	
INSTRUMENT	VOLUME
Horn 1	98.3
Horn 2	82.0
Horn 3	94.2
Horn 4	73.8

Sections	
SECTION	VOLUME
Horn	89.1
Trumpet	100.0
Trombone	70.3
LowBrass	47.9

Microphones	
MICS	VOLUME
Close	68.2
Mid	78.6
Main	100.0
Wide	43.2

Master FX	
Reverb Balance	
40.0	
Equalizer	
<input checked="" type="checkbox"/> Bright	<input checked="" type="checkbox"/> Small
<input type="checkbox"/> Dark	<input type="checkbox"/> Large

The [Multifunction Panel](#) is your control center for mixing and processing tracks within REALIZE. It includes pages for Monitoring, Routing, Balance, Sections, Microphones, and Master FX. In this section, uncover the sophisticated architecture of the plugin for advanced sonic experimentation, giving you complete control over the final sound.

## **Summarizing the Interface Experience**

As we conclude this guide, reflect on the intuitive design and powerful capabilities of REALIZE at your disposal. This journey through the interface has equipped you with the tools and knowledge to transform your MIDI data into an orchestral masterpiece, bridging the gap between technology and artistry in music production.

# MIDI Data Integration: From Transcription to Performance

## Initiating MIDI Composition Integration

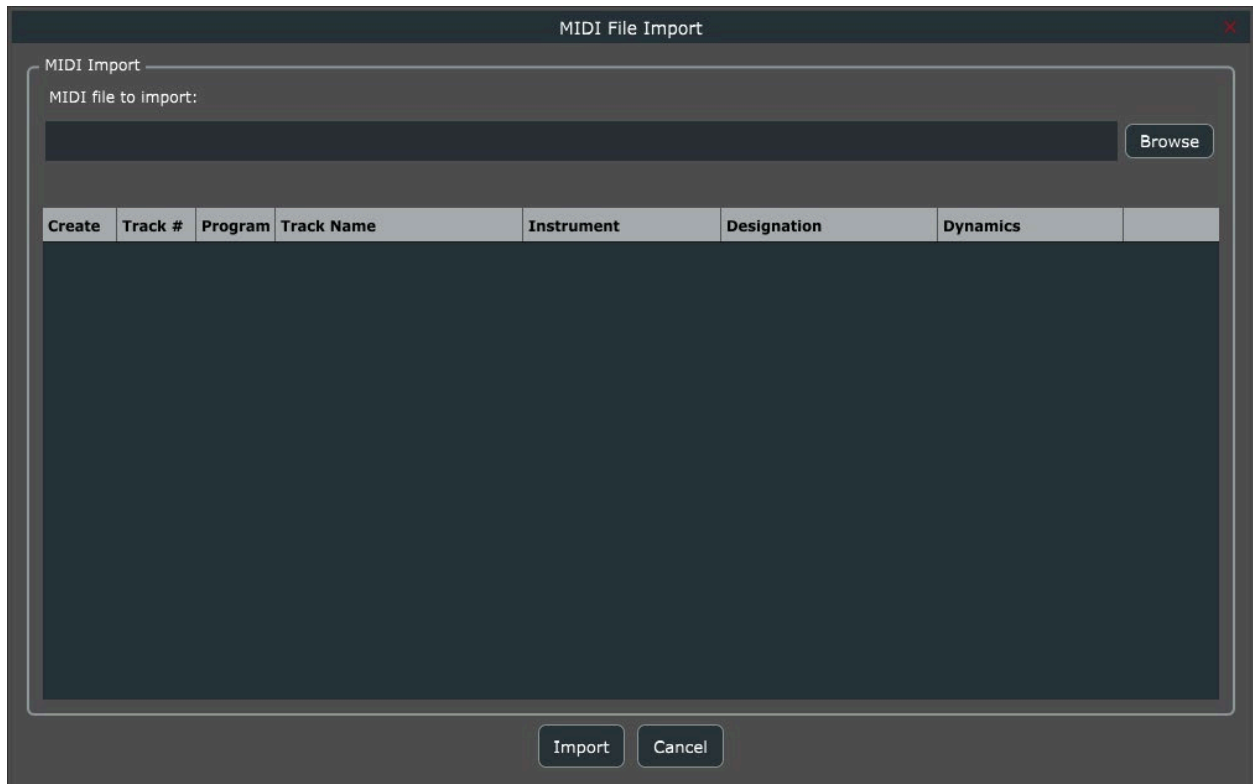
Welcome to the journey of transforming your MIDI compositions into full orchestral realizations with REALIZE.



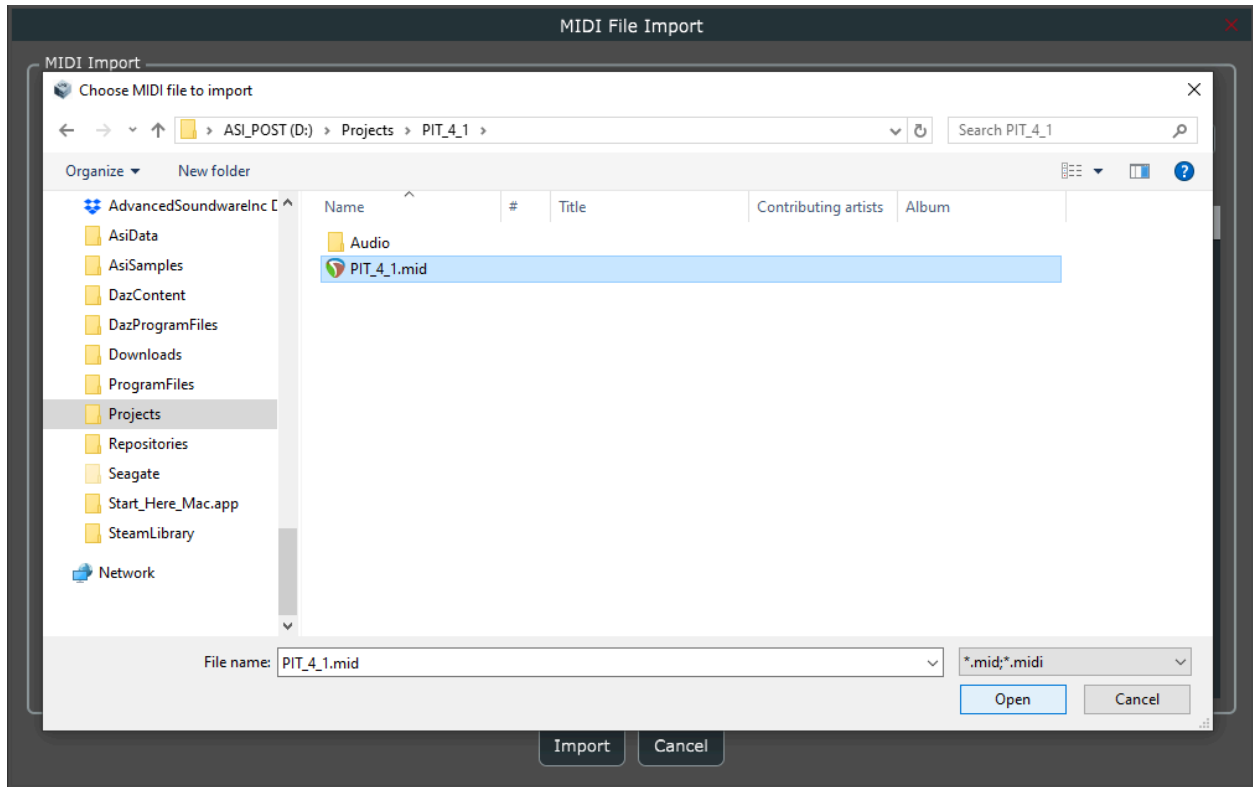
To begin, locate and click the [Transcribe Button](#), marked with a treble clef icon, in the upper left corner of the REALIZE interface. This action opens the MIDI File Import Dialogue, your first step towards a rich orchestral experience.

## Step-by-Step MIDI File Selection

In the [MIDI File Import Dialogue](#), navigate to your monophonic MIDI tracks. Here's how:



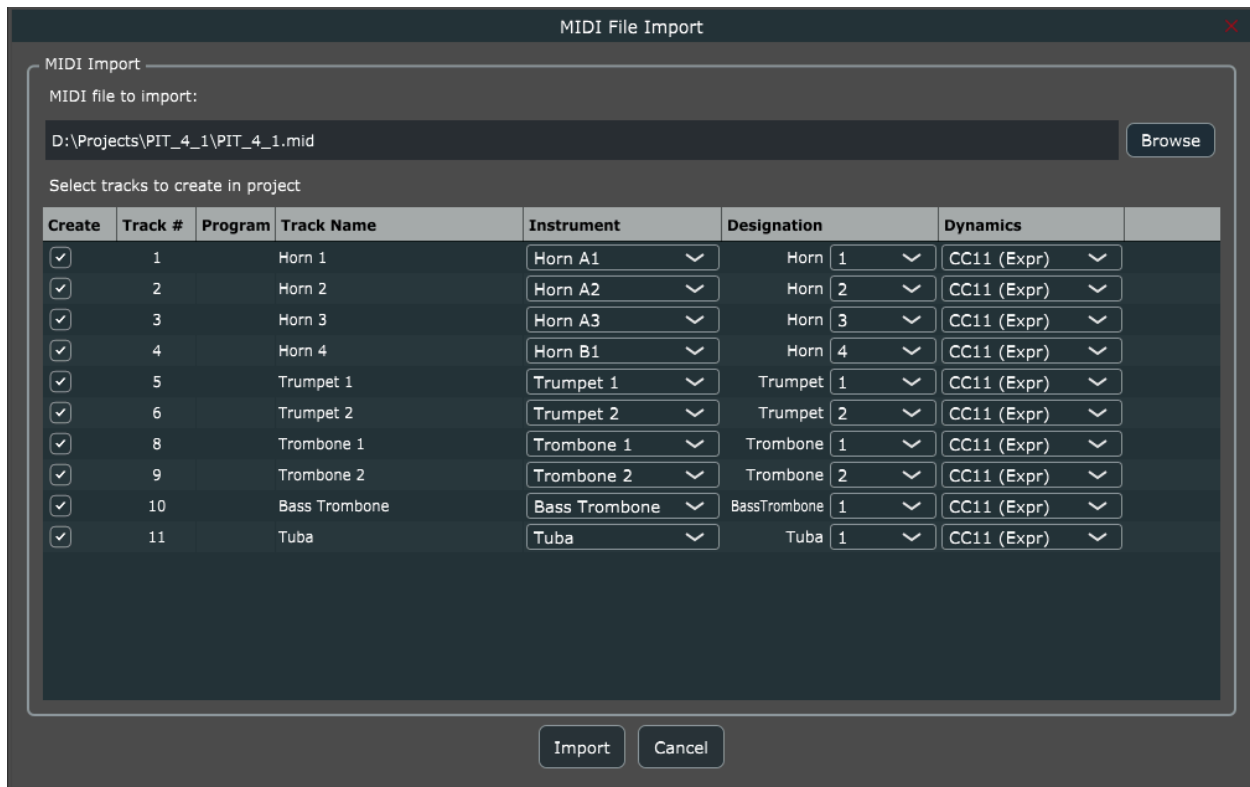
1. Click the 'Browse' button.



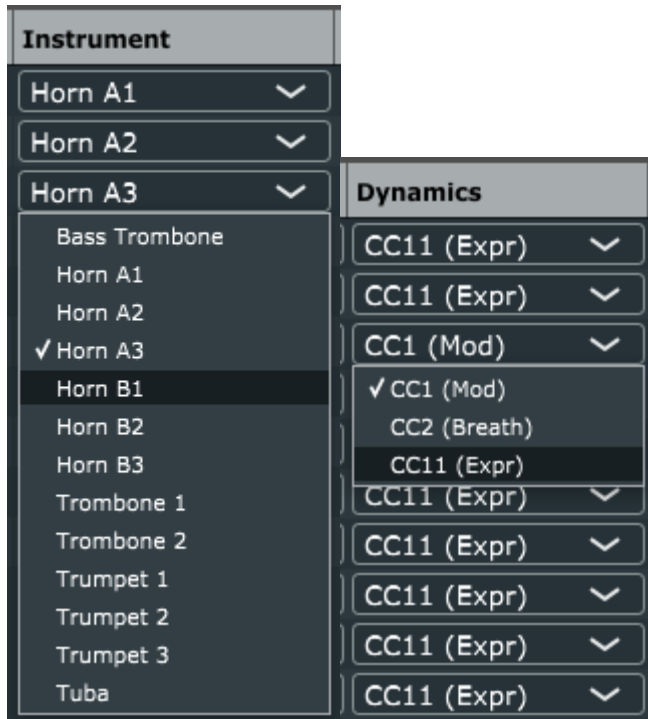
2. Find and select your desired MIDI file.
3. Click 'Open' to load the file.

## Detailed Track Configuration Strategies

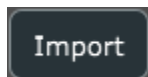
Upon loading your MIDI file, you will see a list of all tracks with several configurable options:



- **Create Checkbox:** Select the tracks you want to include in your project.
- **Track Number and Name:** Automatically determined from the MIDI file.
- **Program Field:** Displays the Program Change message or uses the Track Name to guess the appropriate library.
- **Designation Dropdown Menu:** Choose instrument numbering as it should appear in your score.



- **Instrument Dropdown Menu:** Assign each track to an instrument from REALIZE's library.
- **Dynamics Dropdown Menu:** Set the dynamics controller for accurate MIDI dynamics interpretation.



After configuring the tracks, review your selections and click 'Import' to start the transcription and rendering process. REALIZE will analyze your MIDI data, applying its library of sampled phrases to generate a lifelike and musically expressive performance.

### Rendering and Review

After initiating the import process, REALIZE diligently works to analyze your MIDI data, intelligently selecting the most suitable source samples from its extensive library. This process is crucial for rendering the detailed motifs that define each instrument's performance. During this time, you'll observe the [Render Progress Label](#), indicated by gold letters next to the Instrument Dropdown, showing the rendering completion percentage.



As REALIZE renders your composition, initially, only noteheads may be visible. Waveforms will gradually populate as each note completes its rendering process. Although playback is possible during this phase, it will be limited to the notes that have been fully rendered.

*Given this necessary rendering interval, we suggest taking a brief intermission. This pause not only allows REALIZE to complete its intricate rendering process but also offers you a moment to refresh and regroup. The duration of this process depends on the number of tracks in your file and the total number of notes to be rendered. Generally, you can expect the rendering to be completed within a few minutes.*



Keep an eye out for the transition of the progress indicator: the completion of rendering is signaled when the progress number (displayed in gold) is replaced with the host position (in green.) Once this change occurs, you are ready to resume your work with the fully rendered composition.

## Refining Orchestral Interpretations



The screenshot displays the REALIZE software interface for a Horn 1 track. At the top, the track name 'Horn 1' is shown next to a treble clef icon. The time is set to 00:39.064, and the repetition is defined as 'REP {02Nx3} #1/3 {ff} 1200ms'. On the right, there are checkboxes for 'R', 'M', 'D', 'P', and 'T', and a yellow 'A' icon. The main area is split into two panels: the left panel shows a musical staff with three notes and a dynamic marking of 'ff', and the right panel shows a green waveform with time markers at 0:39.064, 0:40.212, and 0:41.416. Below the staff is an 'Information' table:

NOTE ON	LENGTH	PITCH	MARKS
0:39.064	1148ms	B2(59)	[no]
0:40.212	1204ms	B2(59)	[no]
0:41.416	1193ms	B2(59)	[no]

Below the table, the 'MOTIF' section indicates 'Phrasing: Nonlegato' and 'Dynamics: ff'. To the right of the information table is the 'WAVEFORM ADJUSTMENTS' section, which includes several control knobs: 'Tune' and 'Vibrato' (both at 0), 'Attack' and 'Release' (both at 0), 'Transient' and 'Inflection' (both at 0), 'Speed' and 'Depth' (both at 0), and 'Volume' (at 1.0). The labels below these knobs are 'INTONATION', 'POSITION', 'ARTICULATION', 'TRANSITION', and 'OUTPUT'. The REALIZE logo is visible at the bottom of the interface.

Post-rendering, review the initial transcription and rendering in the main interface. Utilize the controls from the Quick Start Guide and other tutorials to refine your composition further, enhancing its orchestral interpretation.

## Synchronizing MIDI File Updates

REALIZE maintains a link to your imported MIDI file. Any alterations made to the MIDI file are automatically detected, updating the Motifs in REALIZE with new transcriptions, sample source recommendations, and waveform renderings. Previously set sample overrides and adjustments are preserved.

## Exploring Orchestral Possibilities with MIDI

By following these steps, you have laid the foundation for a dynamic orchestral realization. This guide aims to provide a comprehensive start for new users, ensuring a smooth and creative journey in music production with REALIZE.



## Structural Insights: Tracks, Motifs, and Notes

### Commanding Orchestral Tracks



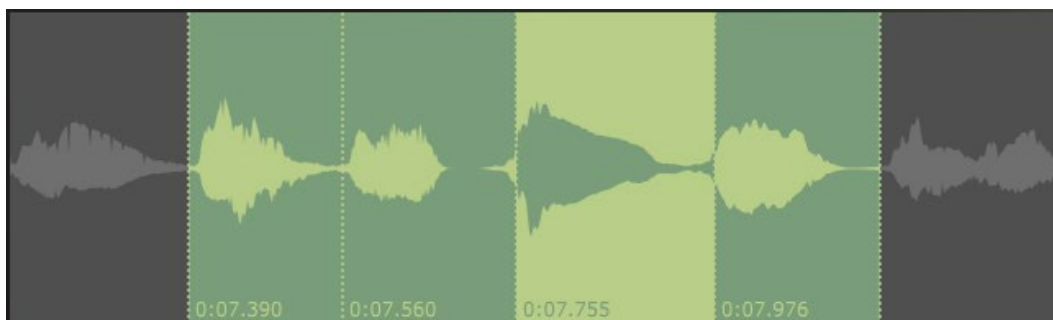
In REALIZE, your composition is structured into Tracks, each representing an individual instrumental part. These Tracks form the backbone of your orchestral arrangement, allowing you to manage and manipulate each instrument's contribution to the overall performance.

### Decoding Motifs and Notes



Tracks are comprised of Motifs, the fundamental musical phrases that are the essence of your composition. Each Motif consists of one to four Notes - the building blocks of your musical creation. Understanding this hierarchy is crucial for effective composition management in REALIZE.

### Translating MIDI into Audio Magic



Upon importing a MIDI file, REALIZE undertakes an offline render of each Motif across all instrument Tracks. This process involves detailed analysis and conversion of MIDI data into audio performances, now prepared for playback and editing within the plugin.

## Focusing on Active Musical Elements

REALIZE displays only the active Motifs and Notes intersecting with the song position pointer in your Digital Audio Workstation (DAW). This focused approach ensures that you are always working on the most relevant parts of your composition.



## Time Navigation in Musical Creation

As you move the song position pointer, REALIZE updates to show new active Motifs. The Active Note – the one intersected by the DAW's song position pointer – is highlighted for editing. This feature facilitates precise navigation and editing within your composition.

## Enhancing DAW Integration

REALIZE integrates tightly with your DAW, allowing seamless navigation and editing. For instance, selecting a new Active Note within a Motif can be done easily through the Notation or Waveform Panels, and in some configurations, you can command your DAW to jump to the position of the selected Active Note.

## Fine-Tuning for Precision



Adjustments in the Notation Panel influence the entire active Motif and its constituent Notes, whereas the Waveform Panel allows for fine-tuning of only the selected Active Note. These tools offer you the flexibility to make both broad and specific adjustments to your composition.

## Grasping the Music's Anatomy

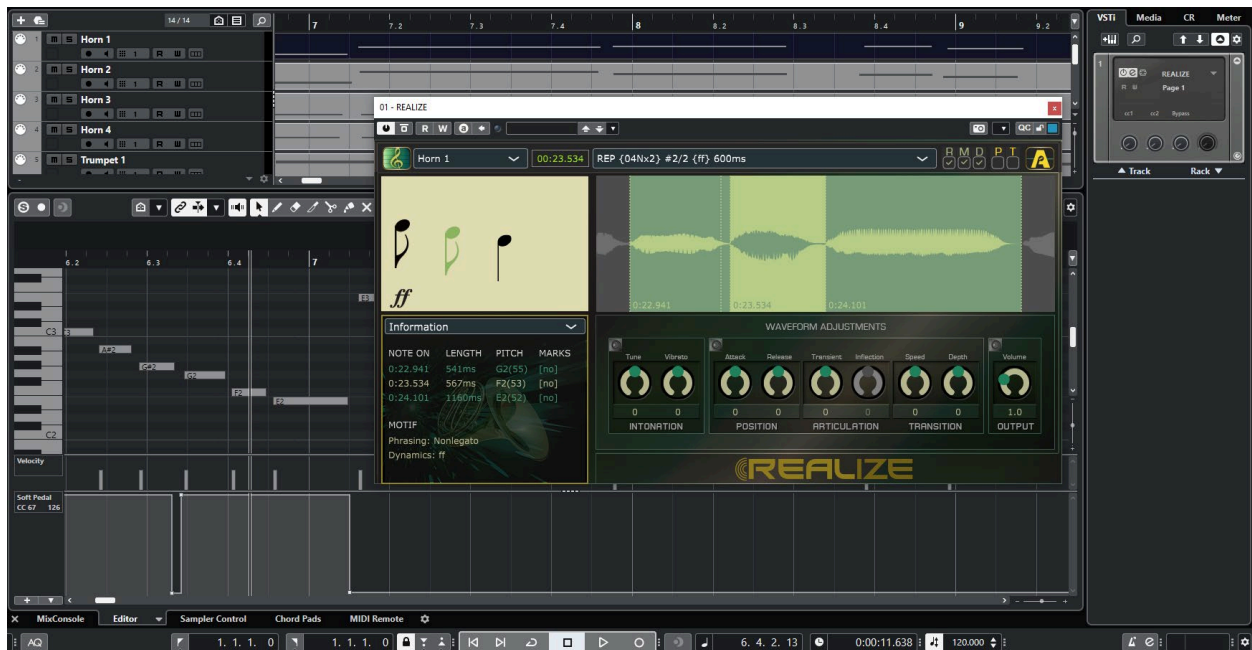
Understanding the architecture of Tracks, Motifs, and Notes is key to harnessing the full potential of REALIZE. This knowledge, combined with REALIZE's robust DAW integration, empowers you to shape your composition into a fully realized orchestral performance with clarity and control.

# Interpretation and Expression: Mastering the Notation Panel

## Deciphering Motifs and Phrases

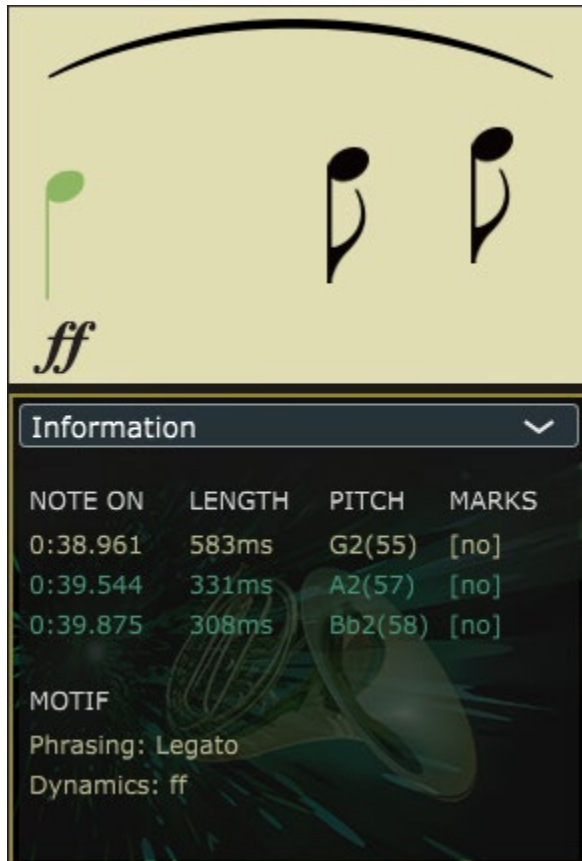


In REALIZE, upon importing MIDI data, the software automatically organizes notes into Motifs – groups of one to four notes crucial for musical phrasing.



You can further personalize these groupings using MIDI Controller 67 (Soft Pedal), merging manual input with the software's automatic partitions. This feature enhances your control over the music's expression, particularly in phrasing. Phrasing for each Motif, whether legato or non-legato, is visually represented and can be toggled in the Notation Panel.

## Perfecting Phrasing and Legato Techniques



The image shows a screenshot of the REALIZE software interface. The top portion displays musical notation on a light yellow background. It features a green quarter note on the left, followed by two black eighth notes that overlap with it. A black slur is drawn above the notes, indicating legato phrasing. Below the notes, the dynamic marking *ff* is visible.

The bottom portion of the screenshot shows a dark panel with a table of note information. The table has four columns: NOTE ON, LENGTH, PITCH, and MARKS. Below the table, the text 'MOTIF' is displayed, followed by 'Phrasing: Legato' and 'Dynamics: ff'.

NOTE ON	LENGTH	PITCH	MARKS
0:38.961	583ms	G2(55)	[no]
0:39.544	331ms	A2(57)	[no]
0:39.875	308ms	Bb2(58)	[no]

MOTIF  
Phrasing: Legato  
Dynamics: ff

REALIZE's Notation Panel allows you to finely adjust phrasing. Overlapping notes result in a legato phrasing, indicated by a slur symbol. Detached notes are treated as non-legato. By clicking near the top of the Notation Panel, you can toggle legato phrasing on or off, giving you flexibility in the expression of each Motif.

## Accentuating with Articulations



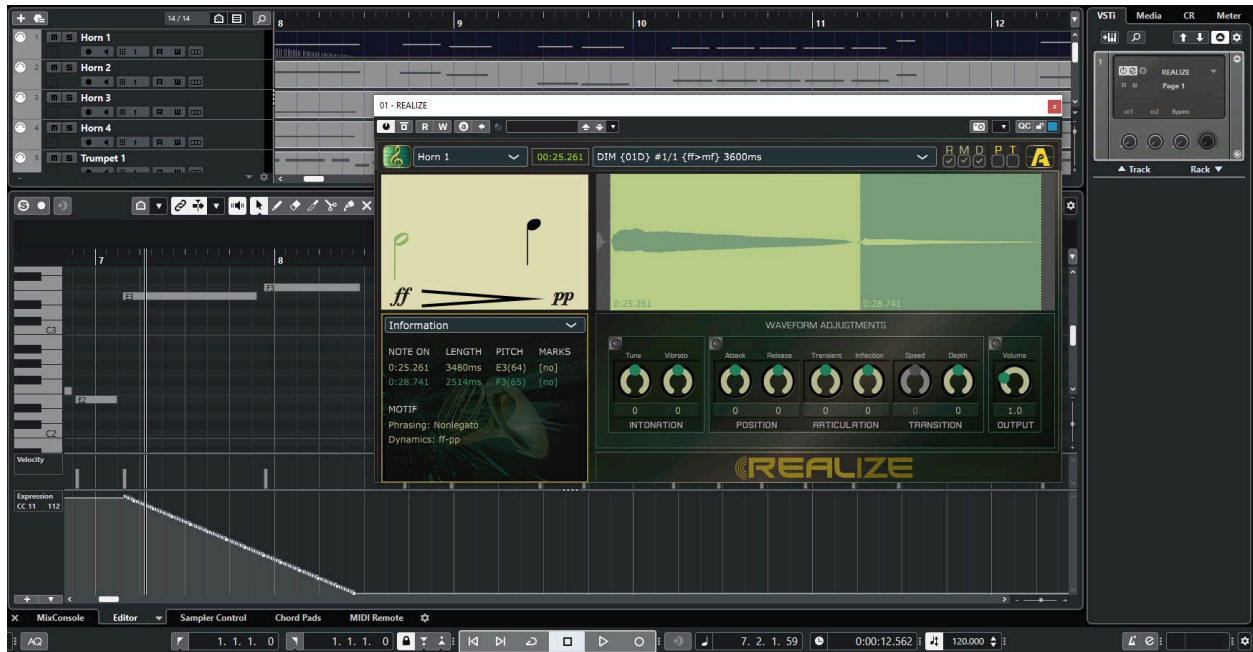
The screenshot displays two musical notes on a staff. The first note is a quarter note with an accent (^) above it and a forte (ff) dynamic marking below it. The second note is a quarter note with an accent (^) above it and a staccato (>) articulation above it. Below the staff is an 'Information' panel with a dropdown arrow. The panel contains a table with the following data:

NOTE ON	LENGTH	PITCH	MARKS
0:25.261	3480ms	E3(64)	[^]
0:28.741	2514ms	F3(65)	[>][.]

Below the table, the 'MOTIF' section is visible, showing 'Phrasing: Nonlegato' and 'Dynamics: ff'. The background of the interface features a faint image of a trumpet.

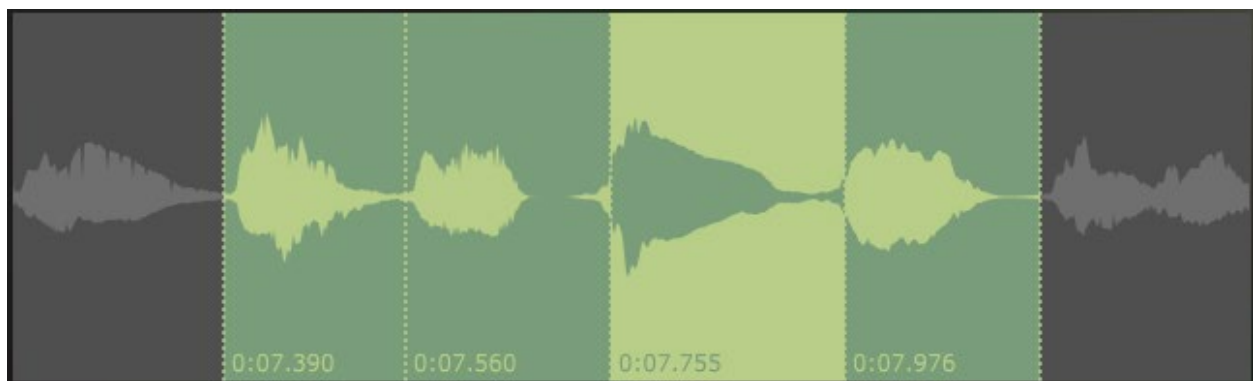
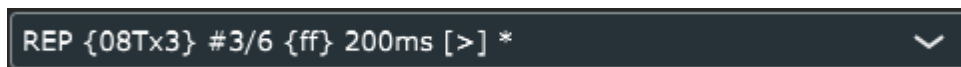
Accents and articulations add distinct character to your music. REALIZE initially assigns these based on MIDI velocity and note messages. You can add or modify these elements by clicking above a note in the Notation Panel, using Alt + Click to remove symbols. This interactive functionality allows for nuanced expression in your compositions.

## Controlling Dynamic Expressions



Dynamics in REALIZE are interpreted from MIDI Controller data (1, 2, or 11). Uniform controller values result in steady dynamics, while varying values create crescendo or diminuendo hairpins. You have the freedom to adjust or remove these dynamic marks, offering control over the expressive intensity of your music.

## Merging Notation with Source Samples



As you refine phrasing, accents, articulations, and dynamics in the Notation Panel, REALIZE intelligently updates its source sample recommendations. These changes are immediately reflected in both the Source Sample Dropdown Menu and the Waveform Panel, ensuring that your adjustments have a direct impact on the final audio output.

## **Harnessing the Power of Expression: A Final Note**

Mastering the Notation Panel in REALIZE is a pivotal step in realizing your musical vision. By exploring and utilizing the intricate functionalities for phrasing, accents, articulations, and dynamics, you unlock the ability to craft compositions that are not just technically sound but also rich in expression. The key lies in experimenting with these tools, allowing REALIZE to transform your ideas into a symphony of expressive and dynamic musical creations.

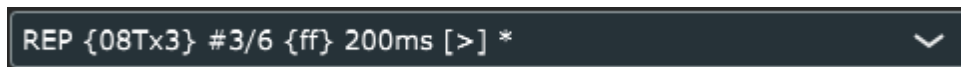


## Categories and Recommendations: The Art of Sample Selection

### Crafting the Ideal Sonic Palette

Welcome to the sophisticated world of sound selection in REALIZE. This chapter will guide you through the functionality of the Source Sample Dropdown and the RMD Filters, essential tools for meticulously crafting each instrument's sound in your compositions.

### Making Optimal Sample Choices



For each note, REALIZE displays up to 20 recommendations in the [Source Sample Dropdown](#), evenly distributed across the four available categories: Detached, Rhythmic, Melodic, and Dynamic.

### Customizing with RMD Filters



The [RMD Filters](#) allow you to customize which sample categories are visible in the Dropdown. Detached samples are always visible, while the presence of Rhythmic, Melodic, and Dynamic samples depends on their respective filter checkboxes. Unchecking a box reallocates its slots to remaining categories, uncovering new sample options.

### Discovering Expanded Sound Options

Adjusting the RMD Filters can reveal a broader range of samples, aiding in the discovery of the perfect match for the Active Note's properties. This feature is key in exploring the vast sonic possibilities within REALIZE.

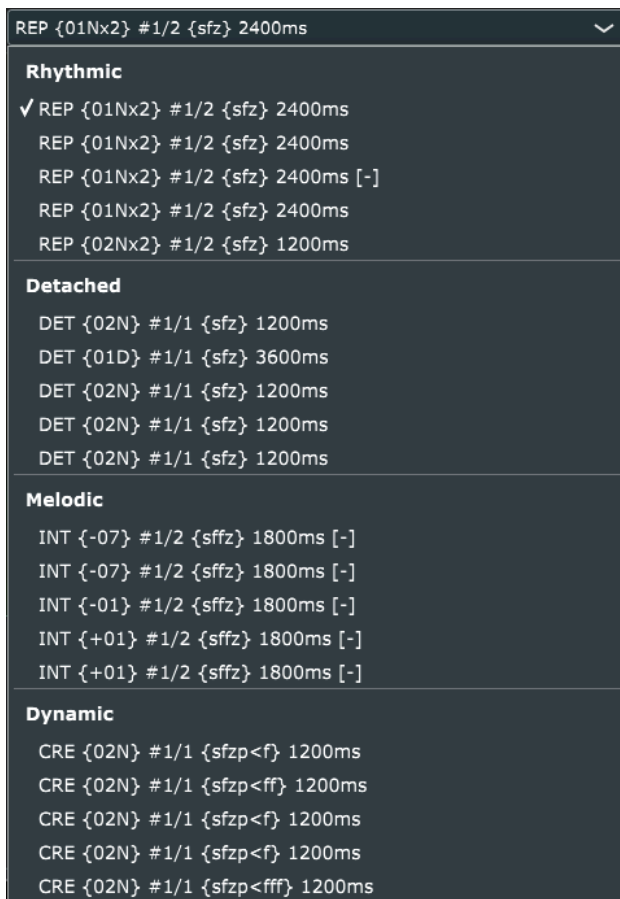
*Sometimes you'll find an unexpected gem in a category that seems contrary to your intention.*

Case in point: A diminuendo sample from the Dynamic category might serve as a nice alternative to a sustained long note from the Detached category, particularly when the dynamic change is narrow, such as fortissimo to forte.

## Exploring Sample Categories

The Source Sample Dropdown is organized into four distinct categories: Detached, Rhythmic, Melodic, and Dynamic, each catering to different musical characteristics:

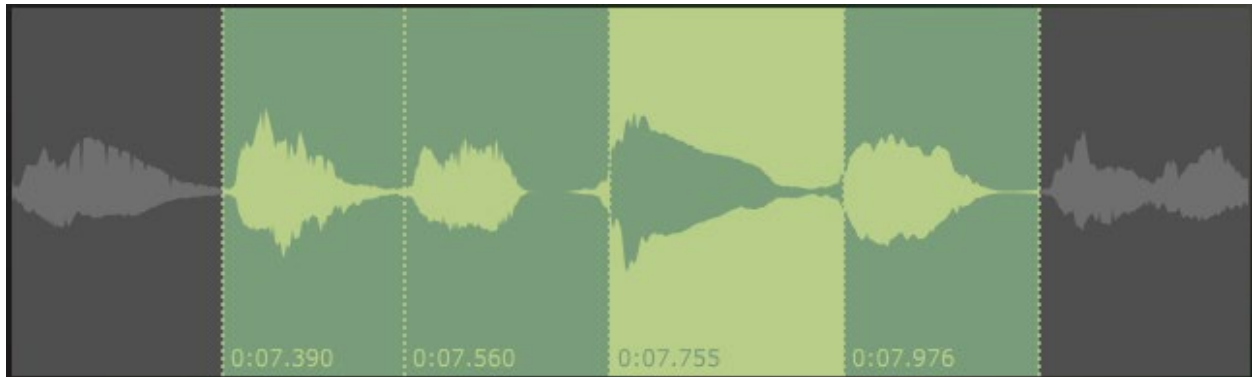
- **Detached:** Features single-note samples with a distinct attack and release, ideal for pieces requiring very long notes, or shorter notes with clean separations.
- **Rhythmic:** Contains multi-note samples with consistent dynamics, perfect for rhythmic consistency.
- **Melodic:** Offers multi-note samples varying in pitch, the only category providing samples with natural Legato phrasing.
- **Dynamic:** Includes samples with continuous or stepwise dynamic changes, encompassing both single and multi-note phrases.



## Dynamic Selection Strategies



Selecting a new sample from the Dropdown immediately updates the audio output and Waveform Panel.



REALIZE recalls specific settings for samples that have been previously adjusted, ensuring continuity in your composition.



## Exploring the Depths of Orchestral Sound

Dive into REALIZE's rich palette of sound options to discover the transformative impact they have on your music. With these tools, you can shape each instrument's performance with precision, bringing depth, variation, and expressiveness to your compositions.

## Sculpting Sound: Precision Editing in the Waveform Panel

Welcome to the intricate world of the Waveform Panel in REALIZE.



This chapter will guide you through the panel's functionalities, focusing on the specific adjustment knobs available for fine-tuning the notes that form the backbone of your instruments' performances.

### Detailed Note Adjustment Techniques

The Waveform Panel provides a detailed view of each note, offering controls for Intonation, Position, Articulation, Transition, and Output.

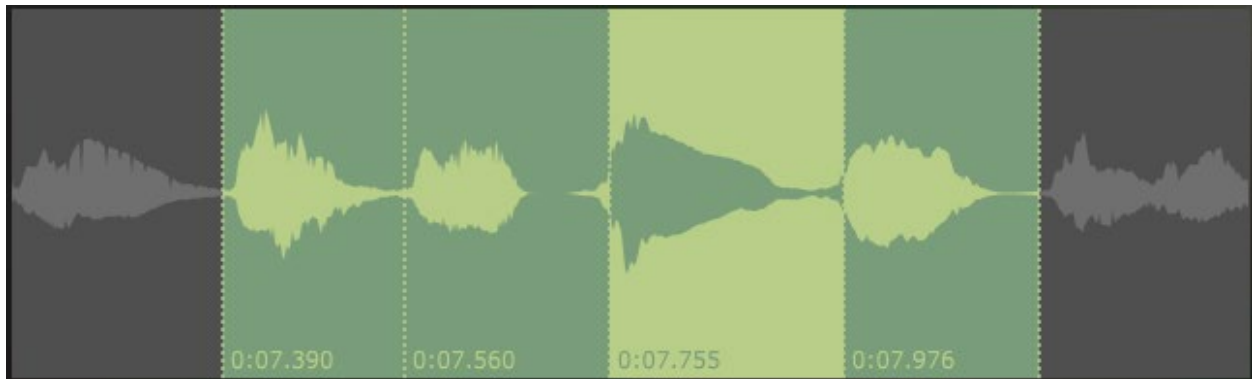
- **Intonation Controls (Tune and Vibrato):** Tune adjustments align the pitch within harmonies or correct slight intonation discrepancies. Vibrato adds or modifies the vibrato effect on a note, enhancing the expressiveness of sustained notes.
- **Position Controls (Attack and Release):** Attack modifies the onset of the active note, affecting its rhythmic drive. Release adjusts the note's endpoint, influencing its sustain characteristics.
- **Articulation Controls (Transient and Inflection):** Transient control sharpens or softens the initial attack of notes. Inflection adjustment repositions the dynamic changes' midpoint, crucial for synchronized crescendos and diminuendos.
- **Transition Controls (Speed and Depth):** Speed adjusts the transition between notes, affecting phrase fluidity. Depth modifies the overlap between consecutive notes, influencing legato effects and note clarity.
- **Output Controls (Volume):** Volume adjusts the loudness of the active note, essential for achieving a balanced mix in the composition.

## Sample-Specific Editing Considerations

REP {08T×3} #3/6 {ff} 200ms [ > ] \*

Each adjustment in the Waveform Panel is specific to the currently selected Source Sample. Changing the source sample will reset the knobs to default positions or recall any previous adjustments made to that particular sample. This feature ensures that each sample maintains its unique settings, allowing for tailored and consistent sound profiles.

## Visualizing Waveform Adjustments



As you make adjustments using the various knobs in the Waveform Panel, REALIZE instantly updates the audio graph. This real-time feedback allows you to immediately see the impact of your changes, ensuring a dynamic and responsive editing experience. You can also audition changes by right-clicking on a waveform.

## Achieving Nuanced Musical Expression

The Waveform Panel in REALIZE is a powerful tool for detailed audio editing. By mastering these controls, you can infuse your compositions with nuanced expression and dynamics, tailoring each note to your artistic vision. Experiment with various adjustments to discover how they collectively transform the character and feel of your music.

## Advanced Control: The Multifunction Panel

### Deep Dive into Orchestral Refinement

Welcome to the sophisticated realm of the Multifunction Panel in REALIZE. This chapter will take you through each page accessible via the Multifunction Panel Dropdown, offering a comprehensive suite of controls for fine-tuning every aspect of your musical composition.

### Revealing Motif Details: Information Page



NOTE ON	LENGTH	PITCH	MARKS
0:07.390	170ms	Bb3(70)	[>][.]
0:07.560	195ms	F3(65)	[>]
0:07.755	221ms	Eb4(75)	[>]
0:07.976	183ms	F4(77)	[>]

**MOTIF**  
Phrasing: Nonlegato  
Dynamics: ff

The Information Page provides an exhaustive breakdown of the active motif. Here, you can view details of each note – timing, length, pitch, and articulation marks – as well as overall phrasing and dynamics of the motif. This page is key for detailed analysis and refinement of your motifs.

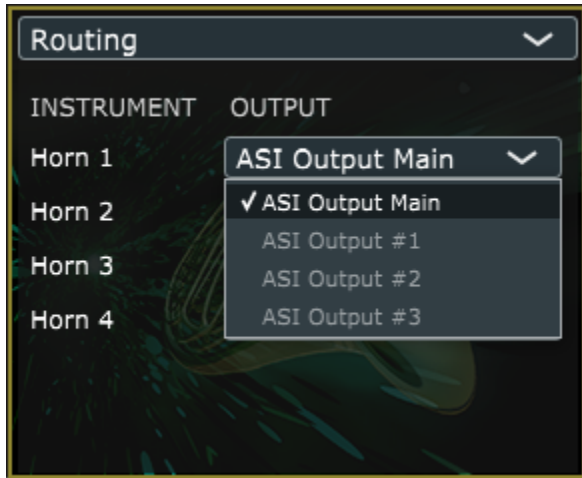
### Isolating Sounds: Monitoring Page



INSTRUMENT	SOLO	MUTE
Horn 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Horn 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Horn 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Horn 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>

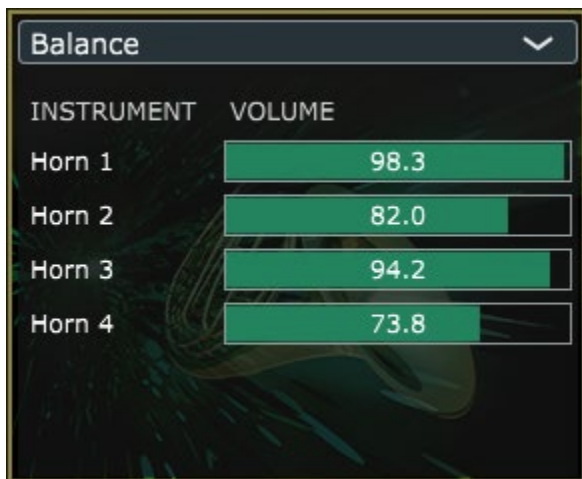
On the Monitoring Page, you have quick access to solo or mute each instrument. This feature is invaluable for focused listening or silencing parts during playback, allowing you to inspect individual elements or create space in the mix as needed.

### Crafting Sound Paths: Routing Page



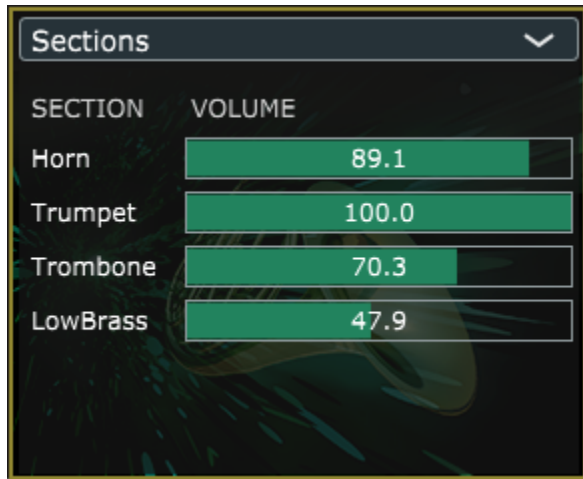
The Routing Page lets you assign each instrument to distinct output channels. This is especially useful for intricate audio setups and external processing, aiding in managing complex mixes and integrating REALIZE within your DAW environment seamlessly.

### Harmonizing the Ensemble: Balance Page



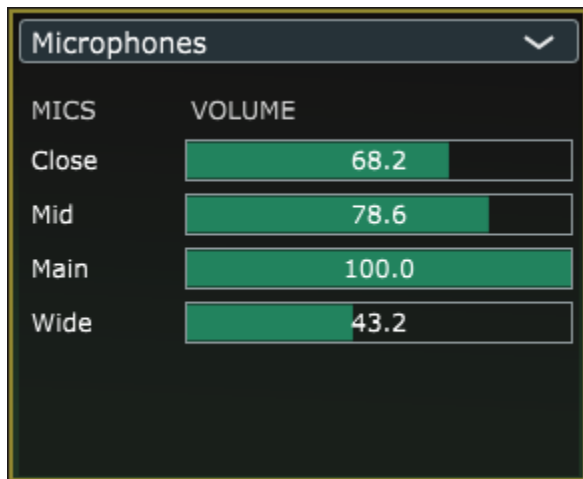
Here, you can manage the volume levels of individual instruments to achieve a harmonious balance in your ensemble. Fine-tuning the blend on the Balance Page ensures that each instrument contributes the right amount to the collective sound.

### Dynamic Orchestration: Sections Page



Adjust the overall volume of different instrument sections, such as Horns or Trumpets, to control their impact within the orchestra. This page allows you to craft the dynamics of your composition by managing sections collectively.

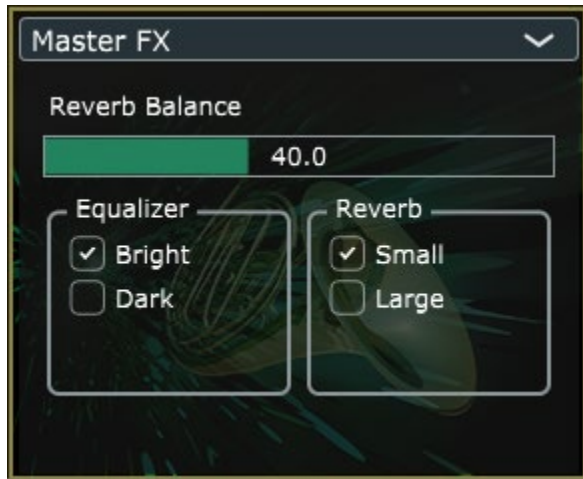
### Shaping Ambient Sounds: Microphones Page



On the Microphones Page, mix the volume of different microphone positions like Close or Wide to alter the spatial character and depth of the recorded sound. Experimenting with microphone balances helps find the perfect tonal quality for each instrument or section.



## Final Touches with Master FX



The Master FX Page allows you to apply master effects like reverb and equalization to enhance the overall sound of your composition. Select from options like Bright or Dark EQ presets and Small or Large reverb spaces to fine-tune the acoustic qualities of your mix.

## Conclusion

The Multifunction Panel in REALIZE is a powerhouse of control, offering unique tools for each aspect of your musical output. From detailed note information to global effects, each page contributes to a polished, expressive, and professional final product. Explore each function to maximize the potential of your compositions, bringing your music to life with depth, clarity, and professional polish.

## Workflow Customization: Advanced Configuration Options

### Tailoring the Sonic Landscape

Welcome to the world of advanced configurations in REALIZE. This chapter guides you through various setup options for the REALIZE plugin, ranging from basic single output configurations to more elaborate setups. These configurations are designed to cater to different mixing needs, whether for a simple ensemble or a full-scale symphonic production.

### Simplifying with Single Output Setup



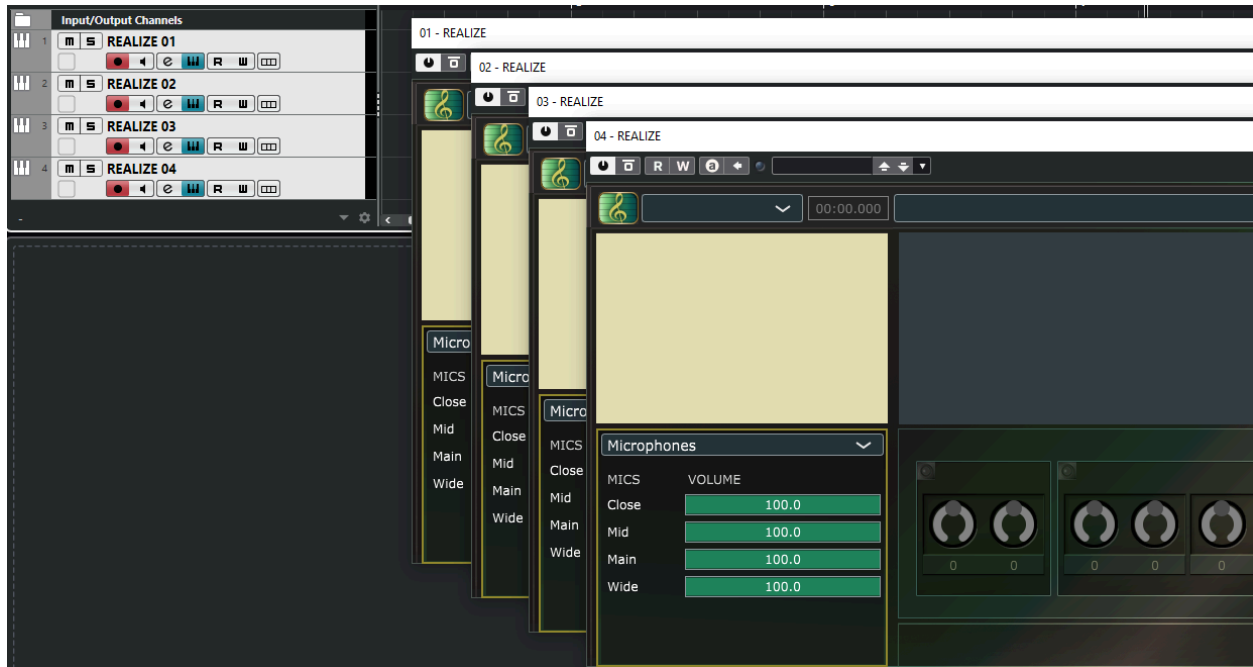
- **Setup:** Start with a single instance of REALIZE loaded with all instruments imported from one MIDI file.
- **Mixing Within REALIZE:** Utilize the Sections and Balance pages in the Multifunction Panel to adjust the mix, ensuring each instrument's level blends well within the ensemble.

## Expanding Control with Multiple Outputs



- **Expanded Control:** Enable additional outputs within REALIZE to route each instrument section—Horns, Trumpets, Trombones, and Low Brass—to separate faders in your DAW.
- **External Mixing:** Use your DAW's faders for broader mix control and apply section-specific processing as needed.
- **Internal Balancing:** Within REALIZE, use the Balance page to mix individual instruments within each section before routing to the DAW.

## Achieving Flexibility with Multiple Instances



- **Ultimate Flexibility:** Load multiple instances of REALIZE, each dedicated to a different section: Horns, Trumpets, Trombones, and Low Brass.
- **Granular Output Routing:** Assign multiple outputs in each instance, providing every instrument with its own dedicated DAW fader.
- **Individual Processing:** This setup allows you to mix and process each instrument individually in your DAW, offering the highest degree of control and customization.

## Mastering the Mix

Whether you prefer the streamlined approach of a single instance or the intricate control offered by multiple instances and outputs, REALIZE provides the flexibility to accommodate your workflow. By understanding these advanced configurations, you can optimize your orchestral mixing process to suit any project requirement, from the most basic ensemble to a full-scale symphonic production. Experiment with these setups to find the perfect balance that brings your orchestral visions to life.

# Brass Ensemble Optimization: MIDI Import Techniques

## Crafting the Horn Ensemble

Create	Track #	Program	Track Name	Instrument	Designation	Dynamics
<input checked="" type="checkbox"/>	1	Horn 1	Horn 1	Horn A1	Horn 1	CC11 (Expr)
<input checked="" type="checkbox"/>	2	Horn 2	Horn 2	Horn A2	Horn 2	CC11 (Expr)
<input checked="" type="checkbox"/>	3	Horn 3	Horn 3	Horn B1	Horn 3	CC11 (Expr)
<input checked="" type="checkbox"/>	4	Horn 4	Horn 4	Horn B2	Horn 4	CC11 (Expr)

- **Default Configuration:** REALIZE's Import Dialogue defaults to a six-horn setup, organized as two trios (A1 A2 A3 and B1 B2 B3). This mirrors traditional orchestration, with first chairs handling the highest notes, third chairs the lowest, and second chairs filling the mid-range.
- **Four Horn Optimization:** For a quartet, adjust the assignments to pair Horns 1 and 3 for higher chords, and Horns 2 and 4 for lower notes. This optimizes the performance and sample distribution for a four-horn setting.

## Strategic Trombone and Trumpet Arrangements

<input checked="" type="checkbox"/>	5	Trumpet 1	Trumpet 1	Trumpet 1	Trumpet 1	CC11 (Expr)
<input checked="" type="checkbox"/>	6	Trumpet 2	Trumpet 2	Trumpet 2	Trumpet 2	CC11 (Expr)
<input checked="" type="checkbox"/>	7	Trumpet 3	Trumpet 3	Trumpet 3	Trumpet 3	CC11 (Expr)
<input checked="" type="checkbox"/>	8	Trombone 1	Trombone 1	Trombone 1	Trombone 1	CC11 (Expr)
<input checked="" type="checkbox"/>	9	Trombone 2	Trombone 2	Trombone 2	Trombone 2	CC11 (Expr)
<input checked="" type="checkbox"/>	10	Bass Trombone	Bass Trombone	Bass Trombone	BassTrombone 1	CC11 (Expr)

- **Trombone Assignments:** In a three-trombone setup, consider the range of parts. Assign Trombone 1 and 3 to the tenor trombone sample library for higher-pitched arrangements, and consider the Bass Trombone library for Trombone 3 in lower ranges.
- **Trumpet Alternatives:** For trumpet trios, an arrangement using Trumpet 1, 2, and 1 may be more effective than a standard 1, 2, 3 setup for higher notes. This mirrors the trombone strategy and ensures consistency in the soprano range.

## Mastering Brass Ensemble Integration

Optimizing MIDI imports for brass ensembles in REALIZE requires a deep understanding of the orchestral brass library and thoughtful assignment of sample libraries. Whether working with horns, trombones, or trumpets, these guidelines will help bring your arrangements to life with the best possible audio rendering. Tailor your setup to the context of your score, allowing the powerful sounds of the brass to shine through in your compositions.

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