MIKE-GEN-LIBS USER GUIDE

Complete Workflows for Rapid Composition

© QUICK START CHECKLIST

- [] mike-gen-libs installed at C:\Users\mike\Documents\gml-workspace\mike-gen-libs
- [] Export system files in place (src/export/universal_export.js)
- [] Rapid Quintet Generator ready (rapid-quintet-generator.html)
- [] Your GML apps accessible (RiffGen, TriadGen, Quartet Engine, etc.)

WORKFLOW 1: RAPID STRING QUINTET (3 Minutes)

Step-by-Step:

- 1. Open Rapid Quintet Generator
- 2. cd/c/Users/mike/Documents/gml-workspace/mike-gen-libs
- 3. explorer rapid-quintet-generator.html
- 4. Generate Base Quintet
 - Click GENERATE QUINTET
 - o Set Tempo: 120 BPM
 - Set Key: D Major

5. Export to RiffGen for Melody Enhancement

- Click EXPORT OPTIONS
- Click Export to RiffGen
- o RiffGen opens with Violin 1 melody
- o Add ornaments, trills, variations

6. Return Enhanced Melody to Quintet

o In RiffGen: Click Export to Quintet

- Quintet Composer receives enhanced melody
- Auto-distributes to all 5 string parts

Result: Full string quintet in under 3 minutes!

ℰ WORKFLOW 2: GUITAR + STRING QUARTET FUSION

The Dave Gilmour Section (Atmospheric Lead)

Step 1: Load Guitarist Profile

// In GML-Guitar-Profiles-Library

loadProfile('David_Gilmour_Lead.json')

// Exports: Sustained bends, delay-heavy phrases

Step 2: Generate Complementary Strings

1. Open TriadGen

- o Generate Em G D Am progression
- Export to Quartet Engine

2. In Quartet Engine

- Receive chord progression
- Auto-arrange for strings:
 - Violin 1: Tremolo on high harmonics
 - Violin 2: Sustained counter-melody
 - Viola: Rhythmic pizzicato
 - Cello: Deep pedal tones

3. Combine in GML-ACE

- 4. // GML-ACE receives both:
- 5. guitarPart = importFrom('Guitar-Profiles')
- stringQuartet = importFrom('Quartet-Engine')

7.

- 8. // Auto-blend:
- 9. finalArrangement = blend(guitarPart, stringQuartet, {
- 10. guitarVolume: 0.7,
- 11. stringsVolume: 0.5,
- 12. reverb: 'hall'
- 13.})

Result: Pink Floyd-style atmospheric section with guitar floating over strings

WORKFLOW 3: MULTI-COMPOSER COLLABORATION

Section A: Classical Opening (Mozart Profile)

- 1. In Composer Profiles Extension
- loadComposer('Mozart_Chamber.json')
- 3. generateSection({
- 4. instruments: ['violin1', 'violin2', 'viola', 'cello'],
- 5. measures: 16,
- 6. style: 'classical_sonata'
- 7. })
- 8. Export to Quintet Composer
 - o Add 5th part (Cello 2) as bass double
 - Export checkpoint: mozart_section_A.json

Section B: Jazz Fusion Bridge (Pat Metheny Profile)

- 1. In Guitar Profiles
- loadProfile('Pat_Metheny_Jazz.json')
- 3. generateBridge({
- 4. chords: ['Gmaj7', 'Em9', 'Am11', 'D13'],
- 5. measures: 8

- 6. })
- 7. Send to String FX Mapper
 - Apply: Jazz articulations
 - o Techniques: Slides, ghost notes, swing feel
 - Export to Quintet

Section C: Rock Finale (Jimmy Page Profile)

- 1. Guitar Profiles → Generate Power Section
- loadProfile('Jimmy_Page_Riffs.json')
- 3. generateFinale({
- 4. intensity: 'high',
- 5. techniques: ['power_chords', 'palm_muting', 'harmonics']
- 6. })
- 7. Infinite Riff Machine → Create Variations
 - o Take Page riff
 - o Generate 4 variations
 - Export strongest to Quartet Engine
- 8. Combine All Sections in GCC
- 9. // In Generative Chamber Composer
- 10. finalPiece = {
- 11. sectionA: import('mozart_section_A.json'), // 0:00-1:30
- 12. sectionB: import('metheny_bridge_B.json'), // 1:30-2:15
- 13. sectionC: import('page_finale_C.json'), // 2:15-3:30
- 14. coda: generateTransition(sectionC, sectionA) // 3:30-4:00
- 15.}

Result: 4-minute piece blending Classical→Jazz→Rock with smooth transitions

✓ WORKFLOW 4: RAPID 10-PIECE ARRANGEMENT

Goal: Guitar Duo + String Quintet + Rhythm Section

Phase 1: Rhythm Foundation (30 seconds)

- 1. Drum Engine
- 2. generateGroove({ style: 'fusion', tempo: 110, pattern: '16th_note_funk'})// Export to GML-ACE

Phase 2: Harmonic Structure (45 seconds)

- 1. TriadGen → Quick Progression
 - o C Am F G (4 bars each)
 - Export to both Quartet Engine AND Guitar Profiles

Phase 3: String Arrangement (60 seconds)

- 1. Quartet Engine receives triads
 - Auto-voices for 4 parts
 - o Export to Quintet Composer

2. Quintet Composer

- o Adds 5th voice (Cello 2)
- Creates contrary motion
- Export to GML-ACE

Phase 4: Guitar Layers (45 seconds)

- 1. Guitar Profile 1: Rhythm (John Mayer style)
- loadProfile('John_Mayer_Rhythm.json')
- 3. generateComping(chordProgression)
- 4. Guitar Profile 2: Lead (Eric Clapton style)
- loadProfile('Clapton_Blues_Lead.json')
- 6. generateSolo({
- 7. scale: 'C_pentatonic',

- 8. intensity: 'medium'
- 9. })

Phase 5: Final Assembly (30 seconds)

- 1. GML-ACE: Combine Everything
- masterArrangement = { drums: importFrom('Drum-Engine'), bass: generateBassFrom(chordProgression), guitarRhythm: importFrom('Guitar-Profile-1'), guitarLead: importFrom('Guitar-Profile-2'), strings: importFrom('Quintet-Composer')}// Auto-mix with proper levelsfinalMix = autoBalance(masterArrangement)exportTo('MIDI_and_MusicXML')

Total Time: ~3 minutes Result: Professional 10-piece arrangement

WORKFLOW 5: THEME & VARIATIONS

Original Theme Generation

- 1. RiffGen: Create 8-bar melody
- theme = generateRiff({ length: 8, key: 'G_major', contour: 'arch'})

Variation 1: String Quintet Treatment

- 1. Export theme to Quintet Composer
- 2. Auto-harmonize for 5 voices
- 3. Apply baroque counterpoint rules

Variation 2: Guitar Hero Version

- 1. Send theme to Guitar Profiles
- 2. Load 'Steve_Vai_Virtuoso.json'
- 3. Add: Tapping, sweeps, harmonics

Variation 3: Jazz Reharmonization

- 1. Theme → TriadGen
- 2. Convert to jazz changes:
 - o Original: G C D

o Jazz: Gmaj7 - Cm9 - D7alt

Variation 4: Orchestral Finale

- 1. All variations → GCC
- 2. Layer and combine:
 - Strings play original theme
 - o Guitar plays virtuoso variation
 - Full ensemble on jazz changes

© WORKFLOW 6: QUICK FILM SCORE

Scene: Chase Sequence (90 seconds needed)

0:00-0:30 - Building Tension

- 1. Quintet Composer
 - o Generate tremolo strings in minor key
 - Export to GML-ACE

0:30-1:00 - Action Peaks

- 1. Drum Engine + Guitar Profiles
- 2. // DrumsgeneratePattern('action_chase_drums')// Guitar (Metal profile)loadProfile('Metallica_Rhythm.json')generateRiff('palm_muted_sixteenths')

1:00-1:30 - Resolution

- 1. TriadGen → Quartet Engine
 - Major resolution chords
 - Quartet voices in contrary motion
 - Add Guitar Profile: 'Ambient_Clean.json'

Export complete score in 5 minutes!

Using Multiple Profiles Simultaneously

```
// In GML-ACE or custom script
function generateMultiStylePiece() {
 // Load 3 guitarist profiles
 const guitarists = [
   loadProfile('Hendrix_Psychedelic.json'),
   loadProfile('Segovia_Classical.json'),
   loadProfile('Pass_Jazz.json')
 ];
 // Load 3 composer profiles
 const composers = [
   loadComposer('Bach_Fugue.json'),
   loadComposer('Debussy_Impressionist.json'),
   loadComposer('Glass_Minimalist.json')
 ];
 // Generate sections
 sections = [];
 // Each guitarist plays with each composer
 guitarists.forEach((guitarist, g) => {
   composers.forEach((composer, c) => {
     const section = {
       guitar: guitarist.generate(8), // 8 bars
       strings: composer.generate({
```

```
ensemble: 'string_quintet',
         measures: 8,
         harmonicLanguage: composer.style
       })
     };
     // Export each combination
     exportToApp({
       sectionId: `G${g}_C${c}`,
       data: section
     }, 'QuintetComposer');
     sections.push(section);
   });
 });
 // Create final 9-section piece (3x3 grid)
 return assembleFinalPiece(sections);
}
```

Result: 9 unique style combinations in one piece!

SPEED COMPOSITION CHALLENGES

Challenge 1: "2-Minute Symphony"

- 1. 0:00-0:30 Generate quintet (Quintet Composer)
- 2. 0:30-1:00 Add guitar lead (Guitar Profiles)
- 3. 1:00-1:30 Create variations (Infinite Riff Machine)

4. 1:30-2:00 - Mix and export (GML-ACE)

Challenge 2: "Style Morph"

- Start with Mozart-style string quartet
- Every 30 seconds, blend in new style:
 - o 0:30 Add blues guitar
 - o 1:00 Shift to jazz harmony
 - 1:30 End with metal power chords
- Use smooth transitions via GCC

Challenge 3: "The Relay"

- RiffGen creates 4-bar melody (20 sec)
- TriadGen harmonizes it (20 sec)
- Quartet Engine arranges it (20 sec)
- Guitar Profiles adds solo (20 sec)
- Quintet Composer adds 5th voice (20 sec)
- GML-ACE final mix (20 sec)
- Total: 2 minutes for complete piece!

EXPORT FORMATS REFERENCE

From Any App to Any App:

Small Data (< 2KB) - URL Parameters

// Automatic for small transfers

exportToApp(smallData, 'TargetApp')

// Creates: http://localhost:3004?import=...

Large Data (> 2KB) - LocalStorage

// Automatic for large transfers

exportToApp(largeData, 'TargetApp')

// Creates: localStorage key + URL reference

Export Chains

RiffGen → Quintet → GML-ACE → Final Output

TriadGen → Quartet → Quintet → Final Output

Guitar → String FX → Quartet → Final Output

Drum → GCC → GML-ACE → Final Output

****** TROUBLESHOOTING

Issue: "Export button does nothing"

Solution: Check console for errors, verify universal_export.js is loaded

Issue: "Can't find my exported data"

Solution: Check localStorage: localStorage.getItem('gml_export_[timestamp]')

Issue: "Apps won't connect"

Solution: Ensure all apps reference same mike-gen-libs folder

Issue: "Tempo doesn't match"

Solution: Standardize in export: data.tempo = 120

₽ PRODUCTIVITY TIPS

1. Create Templates

- Save favorite progressions in TriadGen
- Save quintet templates with your preferred voicings
- Keep guitar profile combinations that work well

2. **Keyboard Shortcuts** (add to your apps)

- o Ctrl+G = Generate
- o Ctrl+E = Export
- Otrl+Q = Quick Quintet

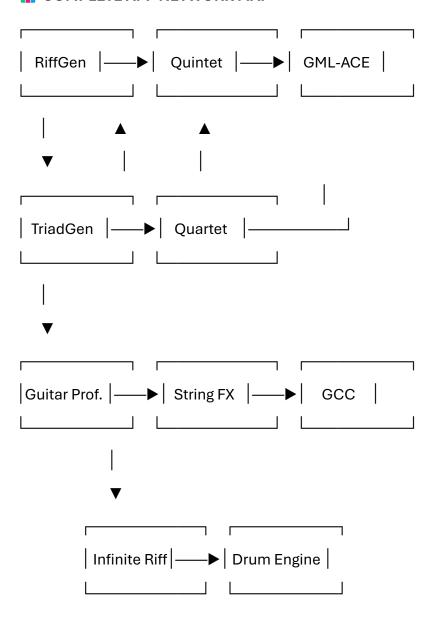
3. Batch Processing

- 4. // Generate 10 variations at once
- 5. $for(let i = 0; i < 10; i++) {$
- 6. generateQuintet();
- 7. exportToApp(currentQuintet, 'RiffGen');
- 8. }

9. Chain Reactions

- o Set up automatic chains:
- o When RiffGen exports → Quintet auto-harmonizes
- o When Quintet exports → GML-ACE auto-mixes

II COMPLETE APP NETWORK MAP



REMEMBER:

Every app can talk to every other app through mike-gen-libs!

Your Universal Export System makes rapid composition not just possible, but effortless.

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