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Composer•Orchestrator

3l33t Music•SkyPrep

# Adaptive Music Preparation for Live Recording

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A primer



## Today's Takeaway

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- How Music Preparation is Defined
- What the Individual Team Members do
- What's Involved in the Process
- Planning Budgeting and Scheduling Factors
- Incorporating Music Prep Into Your Workflow
- Differences between Samples and Live Musicians
- Adaptive Orchestration Ideas!!!



# What Is Music Preparation?



- Composer
  - Designs Adaptive Music Concept
  - Creates Composition
  - Makes a Demo
  - Generates .mp3 or .wav stems
  - Exports Midi File \*Format 1\*
- Orchestrator
- Copyist
- Proofreader
- Printing and Binding
- Librarian



# What are Orchestrators?

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## Orchestrators

- Decipher MIDI
- Listen to Demo
- Talk to Composer!
- Arrange what each Musician or section will play
- Generate orchestration
- Send files to copyist
- Articulations
- Dynamics
- Instrument Combinations
- Color or Timbre
- Voicing or re-Voicing
- Balance
- Transparency

Helps the Composer Achieve their Vision!



♩ = 120

1 piatti, sus cymb, BD soft

3 snare

Measures 1-6 of the first system. The top staff (1 piatti, sus cymb, BD soft) has a whole note in measure 4 and a half note in measure 5. The bottom staff (3 snare) has a complex rhythmic pattern with eighth and sixteenth notes and rests.

7

1 piatti, sus cymb, BD soft

3 snare

Measures 7-10 of the second system. The top staff continues with a half note in measure 7 and a whole note in measure 8. The bottom staff continues with a complex rhythmic pattern.

11

1 piatti, sus cymb, BD soft

3 snare

Measures 11-16 of the third system. The top staff has a half note in measure 11 and a whole note in measure 12. The bottom staff continues with a complex rhythmic pattern.

17

1 piatti, sus cymb, BD soft

3 snare

4 two triangles (high/low)

Measures 17-22 of the fourth system. The top staff has a half note in measure 17 and a whole note in measure 18. The bottom staff continues with a complex rhythmic pattern. The fourth staff (4 two triangles) has a complex rhythmic pattern with eighth and sixteenth notes and rests.

♩ = 120

Piatti

Measures 1-6 of the first system. The top staff (Piatti) has a whole note in measure 4 and a half note in measure 5. The bottom staff (Snare Drum) has a complex rhythmic pattern with eighth and sixteenth notes and rests. Dynamics include *p*, *mp*, and *cresc. poco a poco*.

Measures 7-10 of the second system. The top staff (Piatti) has a whole note in measure 7 and a half note in measure 8. The bottom staff (SD) has a complex rhythmic pattern with eighth and sixteenth notes and rests. Dynamics include *p*, *mp*, *mf*, and *sfz*.

Measures 11-16 of the third system. The top staff (Piatti) has a whole note in measure 11 and a half note in measure 12. The bottom staff (SD) has a complex rhythmic pattern with eighth and sixteenth notes and rests. Dynamics include *p*, *mf*, *sfz*, and *f*.



# What is a Copyist?

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## CopyistS

- Create printable parts and scores
- Send files to Proofreader
- Readability
- Transpositions
- Enharmonics
- Formatting





$\text{♩} = 60$

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

*p* *mp* *mf* *sfz* *f* *mp*



# What is a Proofreader?

## Proofreaders

- Double check scores and parts for accuracy
- Make final corrections
- Send files to printer
- Informs Copyist of any corrections
- Checks with orchestrator if they spot anything out of the ordinary





# What is a Printer or Binder?

## Printer Binders

- Print all scores and parts
- Print duplicates
- Tape and bind scores and parts
- Send completed work to Librarian





# What is a Librarian?

## Librarians

- Organize scores and parts
- Create separate books for players
- Distribute books to music stands at the recording sessions
- Make on the spot corrections
- Collect all scores and parts after all recording is done
- Archive or recycle!





# Samples vs. Live Musicians

- Level of Detail
- Nuances of Articulation
- Dynamics

The image displays a musical score snippet. At the top, a single staff is labeled with dynamics: "light", "medium", and "strong". Below this, a staff is marked "con sord." (con sordina) and contains a series of notes. The bottom section of the image shows a multi-staff arrangement for Piano (Pno.), Violin I (Vln. I), Violin II (Vln. II), and Viola (Vla.). The Piano part features a dense texture of triplets. The Violin and Viola parts also contain triplet patterns. The score is presented in a clean, professional layout with clear notation and dynamic markings.



Fl 1

Fl 2

Cl 1

Cl 2

Bsn 1

Bsn 2

Trp 1

Trp 2

Eup 1

Eup 2

Tub

Sn

Cym

Tom

3

6

7

8

9

QUITS All Squared.



Sheet music for five staves: Vln. 1, Vln. 2, Vla., Vc., and Cb. The music is written in 4/4 time and features a repeating rhythmic pattern of eighth notes. The score is divided into measures 20, 21, 22, and 23. Dynamics include *mp* (mezzo-piano), *sfz* (sforzando), and *ff* (fortissimo). The tempo/mood is marked *molto!*. The Vln. 1 and Vln. 2 parts are marked *unis.* (unison). The Vc. and Cb. parts are marked *mp* and *sfz*. The Vla. part is marked *mp* and *sfz*.

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# Planning•Budgeting•Scheduling

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MIDI Cleanup	•30-60•hour	.25-8 hours per cue
Orchestrators	•800-1000•1-min. cue	1-4 minutes per day
Copyists	•300•1-min. cue	.5-4 hours per cue
Proofreaders	•50-100•hour	1-8 hours per cue
Printer Binders	•50•1-min. cue	2 days - 2 weeks
Librarians	•250-500•3-hours	3-6 hours

Symphony Sized Orchestra •30 parts•



Planning•Budgeting•Scheduling

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MIDI Cleanup	2-3 Hours per min.	20-30 days
Orchestrators	2-3 min. per day	20-30 days
Copyists	3-4 min. per day	15-20 days
Proofreaders	3-4 min. per day	15-20 days
Printer Binders	5-10 min. per day	6-12 days
Librarians	20-30 min. per day	2-3 days

60 minutes of music... 30 days



Planning•Budgeting•Scheduling


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\*•Your mileage may vary



# Incorporating Music Prep

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- Composer
  - Designs Adaptive Music Concept
  - Creates Composition
  - Makes a Demo
  - Generates .mp3 or .wav stems
  - Exports Midi File "Format 1"
- Lead Orchestrator
  - Discusses Adaptive Approach
  - Creates Templates
  - Organizes prep crew
  - Gets to Work!
  - Passes completed work to next person in the chain



Adaptive Orchestration Ideas!!!

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# Looping with Intros and Endings

Common Music  
formatting

Easy Reading for  
Musicians

Record with Repeats to  
grab Loop transition

Transposed Score

**Triad 2**  
Composed by Leslie Moore

*Dirty Harry*

Intro 1-164

4/4

Alto Sax

Tenor Sax

Horn Sax

Horn 1

Horn 2

Trumpet 1

Trumpet 2

Trumpet 3

Clarinet

Guitar

Piano

Electric Bass

Drums

Percussion

Violins

Viola

Cello

1 2 3 4



Outro (Lose)

Score for Dirty Harry, Triad 2, page 21. The score is for measures 81-82, 83, 84, and 85. The instruments listed are A. Sax, T. Sax, B. Sax, Hrn. 1, Hrn. 2, Tpt. 1, Tpt. 2, Tbn., Clmb., Gr., Pno., E. Bass, Drums, Perc., Vlns., Vla., and VC. The score includes various musical notations such as notes, rests, and dynamics (e.g., *f*, *ff*). A box labeled "Clavinet" is present in the Pno. part in measure 84. The score is divided into measures 81-82, 83, 84, and 85.



# Procedural Segments

Common Linear Format

Connect segments  
together or split with 2-4  
bar rests

Always record multiple  
takes to get good  
transitions

057/061 Alderaan bkgnd 02/06

Composed and Orchestrated  
by Lennie Moore

♩ = 94 057 Alderaan bgnd 02

The score is a multi-staff musical arrangement. The top section includes staves for Piano, Flute, Clarinet, English Horn, Saxophone, Trumpet, Trombone, Tuba, and Euphonium. The bottom section includes staves for Percussion, Strings, and a vocal line. The score is divided into measures, with some measures containing musical notation and others being rests. The score is presented in a common linear format.



49 50  mp 51 52  p 53 54





# Using a map

Common music  
Formatting

Double the recording  
time for each layer

Double the Prep

Concert Score  
A ORCHESTRA

003  
HLM Canyon A High

Kinet Disneyland Adventures  
composed by Lonnie Moore  
orchestrated by William Steinberg

$\text{♩} = 120$   
Tempo

Flute 1  
Flute 2  
Oboe 1  
Oboe 2  
D# Clarinet 1  
Bb Bass Clarinet 2  
Harp  
Harp 1  
Contra Bassoon  
Bass 1-2  
Bass 3-4  
Bass 5-6  
Bb Trombone 1  
Bb Trombone 2  
Bb Trombone 3  
Trumpet 1  
Trumpet 2  
Trumpet 3  
Horn Trombone 4  
Tuba  
Percussion  
Harp  
Violin I  
Violin II  
Viola  
Violoncelle I  
Violoncelle II

1 2 3 4 5

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36 37 38 39 40 41

Fid.

Harm.

Acc.

Banj.

Gtr. I

Gtr. II

Ped.

Pno.

Kit

Bass

(GTR)





Fl. 1  
Fl. 2  
Ob. 1  
Ob. 2  
B♭ Cl. 1  
B♭ Bs. Cl. 2  
Bsn. 1  
Cbn.  
Hn. 1-2  
Hn. 3-4  
Hn. 5-6  
B♭ Tpt. 1  
B♭ Tpt. 2  
B♭ Tpt. 3  
Tbn. 1  
Tbn. 2  
Tbn. 3  
B. Tbn. 4  
Tba.  
Perc.  
Hp.  
Vln. I  
Vln. II  
Vla. I  
V. C. I  
C.B.

34 35 36 37 38 39 40 41





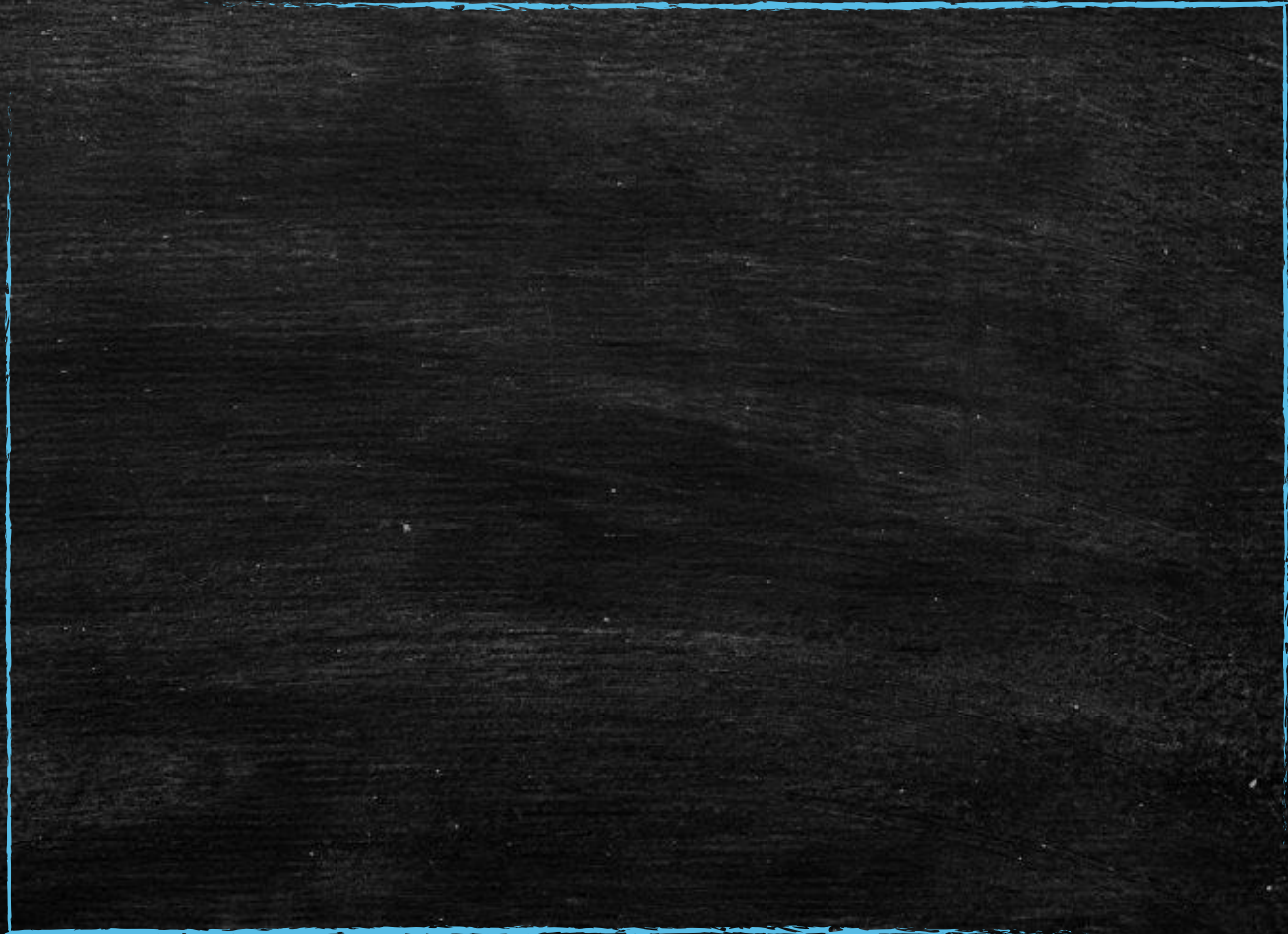
# Same Timbre, Splitting figures

Double the Prep

Double the record time

Quadruple the fun!

Way more adaptive!





No Object Selected

33 / 33

1 m s Violin 1a

2 m s Violin 1b

3 m s Violin 2a

4 m s Violin 2b


5 m s Cello a

6 m s Cello b

7 m s Contrabass a



8 m s Contrabass b

VST Instruments



 Kontakt 5

 Kontakt 5

Kontakt 5

	Kontakt 5
	Kontakt 5

	KONTAKT 3
	KONTAKT 5





	Kontakt 5
	

Kontakt 5

 **Kontakt 5**

 Kontakt 5



	Punch In/Out
	Start at Cursor
	Keep History
	New Parts

1.	1.	1.	0	
0.	0			▶
7.	1.	1.	0	
0.	0			▶

0 2 4 43

0:59:58:29 TC

CLICK	ON	II*
TEMPO	FIXED	4/4 108.000
SYNC	INT.	OFFLINE

SHOW		MARKER		
1	2	3	4	5
6	7	8	9	10
11	12	13	14	15



# Concert Score

## WoW 6.0 031014 Splitting Fingers



Comp. Lennie Moore  
Orch. Lennie Moore

♩ = 108

Violins AB

Basses AB

Violin I A

Violin II A

Violin I B

Violin II B

Violoncello A

Contrabass A

Violoncello B

Contrabass B

*Spiccato*

1 2 3 4 5



Questions?

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