

COMPLETE REFERENCE

# Double Harmonic

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Every Key · Every Position · Every Exercise

The double harmonic major scale features two augmented 2nd intervals, creating an intensely exotic sound. Also called the Byzantine or Arabic scale, it is the sound of Misirlou, Bollywood, and Romani music.

**12 Keys** • **5 Positions** • **480 Exercises** • **588 Tab Blocks**

All tablature verified by mathematical fretboard computation

Generated by [mirador-tab-generator](#)

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PART

# Foundation Keys

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The keys every guitarist learns first. Open chord shapes are abundant, fret positions sit in the comfortable 0–8 range, and most popular songs live here. Master these six keys and you can play over the vast majority of rock, blues, and pop music.

A Double Harmonic, E Double Harmonic, D Double Harmonic,  
G Double Harmonic, C Double Harmonic, B Double Harmonic

# A Double Harmonic

Notes: A, A#, C#, D, E, F, G# | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 4-9

```
e |----- 4-- 5-- 6--|
B |----- 5-- 6-- 9-----|
G |----- 6-- 7-- 9-----|
D |----- 6-- 7-- 8-----|
A |----- 4-- 5-- 7-----|
E |-- 4-- 5-- 6-----|
```

E:4=G# | E:5=A | E:6=A# | A:4=C# | A:5=D | A:7=E | D:6=G# | D:7=A | D:8=A# | G:6=C# | G:7=D | G:9=E | B:5=E | B:6=F | B:9=G# | e:4=G# | e:5=A | e:6=A#

### Position 2

Frets 5-9

```
e |----- 5-- 6-- 9--|
B |----- 5-- 6-- 9-----|
G |----- 6-- 7-- 9-----|
D |----- 6-- 7-- 8-----|
A |----- 5-- 7-- 8-----|
E |-- 5-- 6-- 9-----|
```

E:5=A | E:6=A# | E:9=C# | A:5=D | A:7=E | A:8=F | D:6=G# | D:7=A | D:8=A# | G:6=C# | G:7=D | G:9=E | B:5=E | B:6=F | B:9=G# | e:5=A | e:6=A# | e:9=C#

### Position 3

Frets 8-13

```
e |----- 9--10--12--|
B |----- 9--10--11-----|
G |----- 9--10--13-----|
D |----- 8--11--12-----|
A |----- 8--11--12-----|
E |-- 9--10--12-----|
```

E:9=C# | E:10=D | E:12=E | A:8=F | A:11=G# | A:12=A | D:8=A# | D:11=C# | D:12=D | G:9=E | G:10=F | G:13=G# | B:9=G# | B:10=A | B:11=A# | e:9=C# | e:10=D | e:12=E

### Position 4

Frets 9-14

```
e |----- 9--10--12--|
B |----- 9--10--11-----|
G |----- 9--10--13-----|
D |-----11--12--14-----|
A |-----11--12--13-----|
E |-- 9--10--12-----|
```

E:9=C# | E:10=D | E:12=E | A:11=G# | A:12=A | A:13=A# | D:11=C# | D:12=D | D:14=E | G:9=E | G:10=F | G:13=G# | B:9=G# | B:10=A | B:11=A# | e:9=C# | e:10=D | e:12=E

## Position 5

Frets 11-16

```

e |-----12--13--16--|
B |-----11--14--15--|
G |-----13--14--15--|
D |-----11--12--14--|
A |-----11--12--13--|
E |--12--13--16-----|

```

E:12=E | E:13=F | E:16=G# | A:11=G# | A:12=A | A:13=A# | D:11=C# | D:12=D | D:14=E | G:13=G# | G:14=A | G:15=A# | B:11=A# | B:14=C# | B:15=D | e:12=E | e:13=F | e:16=G#

## Companion Chords

Play these chords over your A Double Harmonic exercises:

	Am	Bdim	Dm	Em
e	--0--	--X--	--1--	--0--
B	--1--	--3--	--3--	--0--
G	--2--	--4--	--2--	--0--
D	--2--	--3--	--0--	--2--
A	--0--	--2--	--X--	--2--
E	--X--	--X--	--X--	--0--

Progression: **Am - Bdim - Dm - Em**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----4-- 5-- 6--|
B |-----5-- 6-- 9--|
G |-----6-- 7-- 9--|
D |-----6-- 7-- 8--|
A |-----4-- 5-- 7--|
E |-- 4-- 5-- 6-----|

```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 6-- 5-- 4-----|
B |-----9-- 6-- 5-----|
G |-----9-- 7-- 6-----|
D |-----8-- 7-- 6-----|
A |-----7-- 5-- 4-----|
E |-----6-- 5-- 4-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----4h5--| --5p4-----|
B |-----5h6-----| -----6p5-----|
G |-----6h7-----| -----7p6-----|
D |-----6h7-----| -----7p6-----|
A |-----4h5-----| -----5p4-----|
E |--4h5-----| -----5p4--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----6--|
D |-----6-- 7-- 6-- 7-- 8-- 7-- 8--|
A |-----4-- 4-- 5-- 4-- 5-- 7-- 5-- 7-- 7--|
E |--4-- 5-- 6-- 5-- 6-- 6--|

e |-----4-- 4-- 5-- 4-- 5-- 6--|
B |-----5-- 5-- 6-- 5-- 6-- 9-- 6-- 9-- 9--|
G |-----6-- 7-- 6-- 7-- 9-- 7-- 9-- 9--|
D |--8--|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----5-- 6--|
G |-----6-- 6-- 7-- 9-- 7-- 9--|
D |-----6-- 7-- 6-- 7-- 8-- 8--|
A |-----4-- 4-- 5-- 7-- 5-- 7--|
E |--4-- 5-- 6-- 6--|

e |-----4-- 4-- 5-- 6--|
B |--5-- 6-- 9-- 9--|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |-----4-- 5-- 6--|
B |-----5-- 6-- 9--|
G |-----6-- 7-- 9--|
D |-----6-- 7-- 8--|
A |-----4-- 5-- 7--|
E |--4-- 5-- 6--|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U4--D5--U6--|
B |-----D5--U6--D9--|
G |-----U6--D7--U9--|
D |-----D6--U7--D8--|
A |-----U4--D5--U7--|
E |--D4--U5--D6-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->4-- 5-- 6--|
B |----->5-- 6-- 9--|
G |----->6-- 7-- 9--|
D |----->6-- 7-- 8--|
A |----->4-- 5-- 7--|
E |-->4-- 5-- 6-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----5-- 6-- 9--|
B |-----5-- 6-- 9--|
G |-----6-- 7-- 9--|
D |-----6-- 7-- 8--|
A |-----5-- 7-- 8--|
E |--5-- 6-- 9-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--9-- 6-- 5-----|
B |-----9-- 6-- 5-----|
G |-----9-- 7-- 6-----|
D |-----8-- 7-- 6-----|
A |-----8-- 7-- 5-----|
E |-----9-- 6-- 5-----|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----5h6--| --6p5-----|
B |-----5h6--| -----6p5-----|
G |-----6h7--| -----7p6-----|
D |-----6h7--| -----7p6-----|
A |-----5h7--| -----7p5-----|
E |--5h6-----| -----6p5-----|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----6--|

```

```

D |----- 6----- 6-- 7-- 6-- 7-- 8-- 7-- 8-----|
A |----- 5----- 5-- 7-- 5-- 7-- 8-- 7-- 8----- 8-----|
E |-- 5-- 6-- 9-- 6-- 9----- 9-----|

e |----- 5----- 5-- 6-- 5-- 6-- 9--|
B |----- 5----- 5-- 6-- 5-- 6-- 9-- 6-- 9----- 9-----|
G |----- 6-- 7-- 6-- 7-- 9-- 7-- 9----- 9-----|
D |-- 8-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |----- 5-- 6--|
G |----- 6----- 6-- 7-- 9-- 7-- 9-----|
D |----- 6-- 7-- 6-- 7-- 8----- 8-----|
A |----- 5----- 5-- 7-- 8-- 7-- 8-----|
E |-- 5-- 6-- 9----- 9-----|

e |----- 5----- 5-- 6-- 9-----|
B |-- 5-- 6-- 9----- 9-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |----- 5-- 6-- 9--|
B |----- 5-- 6-- 9-----|
G |----- 6-- 7-- 9-----|
D |----- 6-- 7-- 8-----|
A |----- 5-- 7-- 8-----|
E |-- 5-- 6-- 9-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U5--D6--U9--|
B |-----D5--U6--D9--|
G |-----U6--D7--U9--|
D |-----D6--U7--D8--|
A |-----U5--D7--U8--|
E |--D5--U6--D9--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->5-- 6-- 9--|
B |----->5-- 6-- 9-----|
G |----->6-- 7-- 9-----|
D |----->6-- 7-- 8-----|
A |----->5-- 7-- 8-----|
E |-->5-- 6-- 9-----|

```



## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----9--10--12--|
B |-----9--10--11-----|
G |-----9--10--13-----|
D |-----8--11--12-----|
A |-----8--11--12-----|
E |-- 9--10--12-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--12--10-- 9-----|
B |--11--10-- 9-----|
G |--13--10-- 9-----|
D |--12--11-- 8-----|
A |--12--11-- 8-----|
E |--12--10-- 9-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----9h10--| --10p9-----|
B |-----9h10-----| -----10p9-----|
G |-----9h10-----| -----10p9-----|
D |-----8h11-----| -----11p8-----|
A |-----8h11-----| -----11p8-----|
E |--9h10-----| -----10p9--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----9--|
D |-----8-----8--11--8--11--12--11--12-----|
A |-----8-----8--11--8--11--12--11--12-----12-----|
E |-- 9--10--12--10--12-----12-----|

e |-----9-----9--10--9--10--12--|
B |-----9-----9--10--9--10--11--10--11-----11-----|
G |-----9--10--9--10--13--10--13-----13-----|
D |--12-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----9--10--|
G |-----9-----9--10--13--10--13-----|
D |-----8--11--8--11--12-----12-----|
A |-----8-----8--11--12--11--12-----|
```

```

E|-- 9--10--12-----12-----|
e|----- 9----- 9--10--12-----|
B|-- 9--10--11-----11-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

### String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|----- 9--10--12--|
B|----- 9--10--11-----|
G|----- 9--10--13-----|
D|----- 8--11--12-----|
A|----- 8--11--12-----|
E|-- 9--10--12-----|

```

### Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U9--D10--U12--|
B|-----D9--U10--D11--|
G|-----U9--D10--U13--|
D|-----D8--U11--D12--|
A|-----U8--D11--U12--|
E|--D9--U10--D12--|

```

### Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->9--10--12--|
B|----->9--10--11-----|
G|----->9--10--13-----|
D|----->8--11--12-----|
A|----->8--11--12-----|
E|-->9--10--12-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|----- 9--10--12--|
B|----- 9--10--11-----|
G|----- 9--10--13-----|
D|-----11--12--14-----|
A|-----11--12--13-----|
E|-- 9--10--12-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --12--10-- 9-----|
B | -----11--10-- 9-----|
G | -----13--10-- 9-----|
D | -----14--12--11-----|
A | -----13--12--11-----|
E | -----12--10-- 9-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----9h10-- | --10p9-----|
B | -----9h10-- | -----10p9-----|
G | -----9h10-- | -----10p9-----|
D | -----11h12-- | -----12p11-----|
A | -----11h12-- | -----12p11-----|
E | --9h10----- | -----10p9-- |

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----9--|
D | -----11--11--12--11--12--13--12--13--13-----|
A | -----11--11--12--11--12--13--12--13--13-----|
E | -- 9--10--12--10--12--12-----|

e | -----9----- 9--10-- 9--10--12--|
B | -----9----- 9--10-- 9--10--11--10--11--11-----|
G | -----9--10-- 9--10--13--10--13--13-----|
D | --14-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----9--10--|
G | -----9----- 9--10--13--10--13-----|
D | -----11--12--11--12--14--14-----|
A | -----11--12--13--12--13-----|
E | -- 9--10--12--12-----|

e | -----9----- 9--10--12-----|
B | -- 9--10--11-----11-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----9--10--12--|
B | -----9--10--11-----|
G | -----9--10--13-----|
D | -----11--12--14-----|
A | -----11--12--13-----|
E | -- 9--10--12-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U9--D10--U12--|
B |-----D9--U10--D11--|
G |-----U9--D10--U13--|
D |-----D11--U12--D14--|
A |-----U11--D12--U13--|
E |--D9--U10--D12--|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->9--10--12--|
B |----->9--10--11--|
G |----->9--10--13--|
D |----->11--12--14--|
A |----->11--12--13--|
E |-->9--10--12--|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----12--13--16--|
B |-----11--14--15--|
G |-----13--14--15--|
D |-----11--12--14--|
A |-----11--12--13--|
E |--12--13--16--|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--16--13--12--|
B |-----15--14--11--|
G |-----15--14--13--|
D |-----14--12--11--|
A |-----13--12--11--|
E |-----16--13--12--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----12h13--| --13p12-----|
B |-----11h14-----| -----14p11-----|
G |-----13h14-----| -----14p13-----|
D |-----11h12-----| -----12p11-----|
A |-----11h12-----| -----12p11-----|
E |--12h13-----| -----13p12--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----13--|
D |-----11-----11--12--11--12--14--12--14--|
A |-----11-----11--12--11--12--13--12--13-----13--|
E |--12--13--16--13--16-----16-----|

e |-----12-----12--13--12--13--16--|
B |-----11-----11--14--11--14--15--14--15-----15--|
G |-----13--14--13--14--15--14--15-----15--|
D |--14-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----11--14--|
G |-----13-----13--14--15--14--15--|
D |-----11--12--11--12--14-----14--|
A |-----11-----11--12--13--12--13--|
E |--12--13--16-----16-----|

e |-----12-----12--13--16-----|
B |--11--14--15-----15-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----12--13--16--|
B |-----11--14--15-----|
G |-----13--14--15-----|
D |-----11--12--14-----|
A |-----11--12--13-----|
E |--12--13--16-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U12--D13--U16--|
B |-----D11--U14--D15--|
G |-----U13--D14--U15--|
D |-----D11--U12--D14--|
A |-----U11--D12--U13--|
E |--D12--U13--D16--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->12--13--16--|
B |----->11--14--15--|
G |----->13--14--15--|
D |----->11--12--14--|
A |----->11--12--13--|
E |-->12--13--16--|

```

# E Double Harmonic

Notes: E, F, G#, A, B, C, D# | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 0-4

```
e |----- 0-- 1-- 4--|
B |----- 0-- 1-- 4-----|
G |----- 1-- 2-- 4-----|
D |----- 1-- 2-- 3-----|
A |----- 0-- 2-- 3-----|
E |-- 0-- 1-- 4-----|
```

E:0=E | E:1=F | E:4=G# | A:0=A | A:2=B | A:3=C | D:1=D# | D:2=E | D:3=F | G:1=G# | G:2=A | G:4=B | B:0=B | B:1=C | B:4=D# | e:0=E | e:1=F | e:4=G#

### Position 2

Frets 3-8

```
e |----- 4-- 5-- 7--|
B |----- 4-- 5-- 6-----|
G |----- 4-- 5-- 8-----|
D |----- 3-- 6-- 7-----|
A |----- 3-- 6-- 7-----|
E |-- 4-- 5-- 7-----|
```

E:4=G# | E:5=A | E:7=B | A:3=C | A:6=D# | A:7=E | D:3=F | D:6=G# | D:7=A | G:4=B | G:5=C | G:8=D# | B:4=D# | B:5=E | B:6=F | e:4=G# | e:5=A | e:7=B

### Position 3

Frets 4-9

```
e |----- 4-- 5-- 7--|
B |----- 4-- 5-- 6-----|
G |----- 4-- 5-- 8-----|
D |----- 6-- 7-- 9-----|
A |----- 6-- 7-- 8-----|
E |-- 4-- 5-- 7-----|
```

E:4=G# | E:5=A | E:7=B | A:6=D# | A:7=E | A:8=F | D:6=G# | D:7=A | D:9=B | G:4=B | G:5=C | G:8=D# | B:4=D# | B:5=E | B:6=F | e:4=G# | e:5=A | e:7=B

### Position 4

Frets 6-11

```
e |----- 7-- 8--11--|
B |----- 6-- 9--10-----|
G |----- 8-- 9--10-----|
D |----- 6-- 7-- 9-----|
A |----- 6-- 7-- 8-----|
E |-- 7-- 8--11-----|
```

E:7=B | E:8=C | E:11=D# | A:6=D# | A:7=E | A:8=F | D:6=G# | D:7=A | D:9=B | G:8=D# | G:9=E | G:10=F | B:6=F | B:9=G# | B:10=A | e:7=B | e:8=C | e:11=D#

## Position 5

Frets 7-12

```
e |----- 7-- 8--11--|
B |----- 9--10--12-----|
G |----- 8-- 9--10-----|
D |----- 7-- 9--10-----|
A |----- 7-- 8--11-----|
E |-- 7-- 8--11-----|
```

E:7=B | E:8=C | E:11=D# | A:7=E | A:8=F | A:11=G# | D:7=A | D:9=B | D:10=C | G:8=D# | G:9=E | G:10=F | B:9=G# | B:10=A | B:12=B | e:7=B | e:8=C | e:11=D#

## Companion Chords

Play these chords over your E Double Harmonic exercises:

	Em	F#dim	Am	Bm
e	--0--	--X--	--0--	--2--
B	--0--	--10--	--1--	--3--
G	--0--	--11--	--2--	--4--
D	--2--	--10--	--2--	--4--
A	--2--	--9--	--0--	--2--
E	--0--	--X--	--X--	--X--

Progression: **Em - F#dim - Am - Bm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |----- 0-- 1-- 4--|
B |----- 0-- 1-- 4-----|
G |----- 1-- 2-- 4-----|
D |----- 1-- 2-- 3-----|
A |----- 0-- 2-- 3-----|
E |-- 0-- 1-- 4-----|
```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |-- 4-- 1-- 0-----|
B |-- 4-- 1-- 0-----|
G |-- 4-- 2-- 1-----|
D |-- 3-- 2-- 1-----|
A |-- 3-- 2-- 0-----|
E |-- 4-- 1-- 0-----|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----0h1--| --1p0-----|
B |-----0h1-----| -----1p0-----|
G |-----1h2-----| -----2p1-----|
D |-----1h2-----| -----2p1-----|
A |-----0h2-----| -----2p0-----|
E |--0h1-----| -----1p0--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |----- 1--|
D |----- 1----- 1-- 2-- 1-- 2-- 3-- 2-- 3-----|
A |----- 0----- 0-- 2-- 0-- 2-- 3-- 2-- 3----- 3-----|
E |-- 0-- 1-- 4-- 1-- 4----- 4-----|

e |----- 0----- 0-- 1-- 0-- 1-- 4--|
B |----- 0----- 0-- 1-- 0-- 1-- 4-- 1-- 4----- 4-----|
G |----- 1-- 2-- 1-- 2-- 4-- 2-- 4----- 4-----|
D |-- 3-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |----- 0-- 1--|
G |----- 1----- 1-- 2-- 4-- 2-- 4-----|
D |----- 1-- 2-- 1-- 2-- 3----- 3-----|
A |----- 0----- 0-- 2-- 3-- 2-- 3-----|
E |-- 0-- 1-- 4----- 4-----|

e |----- 0----- 0-- 1-- 4-----|
B |-- 0-- 1-- 4----- 4-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |----- 0-- 1-- 4--|
B |----- 0-- 1-- 4-----|
G |----- 1-- 2-- 4-----|
D |----- 1-- 2-- 3-----|
A |----- 0-- 2-- 3-----|
E |-- 0-- 1-- 4-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*



```

e |-----U0--D1--U4--|
B |-----D0--U1--D4--|
G |-----U1--D2--U4--|
D |-----D1--U2--D3--|
A |-----U0--D2--U3--|
E |--D0--U1--D4-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->0-- 1-- 4--|
B |----->0-- 1-- 4-----|
G |----->1-- 2-- 4-----|
D |----->1-- 2-- 3-----|
A |----->0-- 2-- 3-----|
E |-->0-- 1-- 4-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |----- 4-- 5-- 7--|
B |----- 4-- 5-- 6-----|
G |----- 4-- 5-- 8-----|
D |----- 3-- 6-- 7-----|
A |----- 3-- 6-- 7-----|
E |-- 4-- 5-- 7-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 7-- 5-- 4-----|
B |----- 6-- 5-- 4-----|
G |----- 8-- 5-- 4-----|
D |----- 7-- 6-- 3-----|
A |----- 7-- 6-- 3-----|
E |----- 7-- 5-- 4-----|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----4h5--| --5p4-----|
B |-----4h5-----| -----5p4-----|
G |-----4h5-----| -----5p4-----|
D |-----3h6-----| -----6p3-----|
A |-----3h6-----| -----6p3-----|
E |--4h5-----| -----5p4--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |----- 4--|

```

```

D |----- 3----- 3-- 6-- 3-- 6-- 7-- 6-- 7-----|
A |----- 3----- 3-- 6-- 3-- 6-- 7-- 6-- 7----- 7-----|
E |-- 4-- 5-- 7-- 5-- 7----- 7-----|

e |----- 4----- 4-- 5-- 4-- 5-- 7--|
B |----- 4----- 4-- 5-- 4-- 5-- 6-- 5-- 6----- 6-----|
G |----- 4-- 5-- 4-- 5-- 8-- 5-- 8----- 8-----|
D |-- 7-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |----- 4-- 5--|
G |----- 4----- 4-- 5-- 8-- 5-- 8-----|
D |----- 3-- 6-- 3-- 6-- 7----- 7-----|
A |----- 3----- 3-- 6-- 7-- 6-- 7-----|
E |-- 4-- 5-- 7----- 7-----|

e |----- 4----- 4-- 5-- 7-----|
B |-- 4-- 5-- 6----- 6-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |----- 4-- 5-- 7--|
B |----- 4-- 5-- 6-----|
G |----- 4-- 5-- 8-----|
D |----- 3-- 6-- 7-----|
A |----- 3-- 6-- 7-----|
E |-- 4-- 5-- 7-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U4--D5--U7--|
B |-----D4--U5--D6--|
G |-----U4--D5--U8--|
D |-----D3--U6--D7--|
A |-----U3--D6--U7--|
E |--D4--U5--D7--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->4-- 5-- 7--|
B |----->4-- 5-- 6--|
G |----->4-- 5-- 8--|
D |----->3-- 6-- 7--|
A |----->3-- 6-- 7--|
E |-->4-- 5-- 7--|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----4-- 5-- 7--|
B |-----4-- 5-- 6-----|
G |-----4-- 5-- 8-----|
D |-----6-- 7-- 9-----|
A |-----6-- 7-- 8-----|
E |-- 4-- 5-- 7-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |-- 7-- 5-- 4-----|
B |-----6-- 5-- 4-----|
G |-----8-- 5-- 4-----|
D |-----9-- 7-- 6-----|
A |-----8-- 7-- 6-----|
E |-----7-- 5-- 4--|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----4h5--|--5p4-----|
B |-----4h5-----|-----5p4-----|
G |-----4h5-----|-----5p4-----|
D |-----6h7-----|-----7p6-----|
A |-----6h7-----|-----7p6-----|
E |--4h5-----|-----5p4--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----4--|
D |-----6-- 6-- 7-- 6-- 7-- 9-- 7-- 9--|
A |-----6-- 6-- 7-- 6-- 7-- 8-- 7-- 8-- 8--|
E |-- 4-- 5-- 7-- 5-- 7-- 7--|

e |-----4-----4-- 5-- 4-- 5-- 7--|
B |-----4-----4-- 5-- 4-- 5-- 6-- 5-- 6-- 6--|
G |-----4-- 5-- 4-- 5-- 8-- 5-- 8-- 8--|
D |-- 9--|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----4-- 5--|
G |-----4-- 4-- 5-- 8-- 5-- 8--|
D |-----6-- 7-- 6-- 7-- 9-- 9--|
A |-----6-- 6-- 7-- 8-- 7-- 8--|
```

```

E|-- 4-- 5-- 7----- 7-----|
e|----- 4----- 4-- 5-- 7-----|
B|-- 4-- 5-- 6----- 6-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|----- 4-- 5-- 7--|
B|----- 4-- 5-- 6-----|
G|----- 4-- 5-- 8-----|
D|----- 6-- 7-- 9-----|
A|----- 6-- 7-- 8-----|
E|-- 4-- 5-- 7-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U4--D5--U7--|
B|-----D4--U5--D6-----|
G|-----U4--D5--U8-----|
D|-----D6--U7--D9-----|
A|-----U6--D7--U8-----|
E|--D4--U5--D7-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->4-- 5-- 7--|
B|----->4-- 5-- 6-----|
G|----->4-- 5-- 8-----|
D|----->6-- 7-- 9-----|
A|----->6-- 7-- 8-----|
E|-->4-- 5-- 7-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|----- 7-- 8--11--|
B|----- 6-- 9--10-----|
G|----- 8-- 9--10-----|
D|----- 6-- 7-- 9-----|
A|----- 6-- 7-- 8-----|
E|-- 7-- 8--11-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --11-- 8-- 7-----|
B | -----10-- 9-- 6-----|
G | -----10-- 9-- 8-----|
D | ----- 9-- 7-- 6-----|
A | ----- 8-- 7-- 6-----|
E | -----11-- 8-- 7--|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----7h8-- | --8p7-----|
B | -----6h9-- | -----9p6-----|
G | -----8h9-- | -----9p8-----|
D | -----6h7-- | -----7p6-----|
A | -----6h7-- | -----7p6-----|
E | --7h8----- | -----8p7--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | ----- 8--|
D | ----- 6----- 6-- 7-- 6-- 7-- 8-- 7-- 8----- 8-----|
A | ----- 6----- 6-- 7-- 6-- 7-- 8-- 7-- 8----- 8-----|
E | -- 7-- 8--11-- 8--11-----11-----|

e | ----- 7----- 7-- 8-- 7-- 8--11--|
B | ----- 6----- 6-- 9-- 6-- 9--10-- 9--10-----10-----|
G | ----- 8-- 9-- 8-- 9--10-- 9--10-----10-----|
D | -- 9-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | ----- 6-- 9--|
G | ----- 8----- 8-- 9--10-- 9--10-----|
D | ----- 6-- 7-- 6-- 7-- 9----- 9-----|
A | ----- 6----- 6-- 7-- 8-- 7-- 8-----|
E | -- 7-- 8--11-----11-----|

e | ----- 7----- 7-- 8--11--|
B | -- 6-- 9--10-----10-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | ----- 7-- 8--11--|
B | ----- 6-- 9--10-----|
G | ----- 8-- 9--10-----|
D | ----- 6-- 7-- 9-----|
A | ----- 6-- 7-- 8-----|
E | -- 7-- 8--11-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U7--D8--U11--|
B |-----D6--U9--D10-----|
G |-----U8--D9--U10-----|
D |-----D6--U7--D9-----|
A |-----U6--D7--U8-----|
E |--D7--U8--D11-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->7-- 8--11--|
B |----->6-- 9--10-----|
G |----->8-- 9--10-----|
D |----->6-- 7-- 9-----|
A |----->6-- 7-- 8-----|
E |-->7-- 8--11-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----7-- 8--11--|
B |-----9--10--12-----|
G |-----8-- 9--10-----|
D |-----7-- 9--10-----|
A |-----7-- 8--11-----|
E |--7-- 8--11-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--11-- 8-- 7-----|
B |-----12--10-- 9-----|
G |-----10-- 9-- 8-----|
D |-----10-- 9-- 7-----|
A |-----11-- 8-- 7-----|
E |-----11-- 8-- 7-----|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----7h8--| --8p7-----|
B |-----9h10-----| -----10p9-----|
G |-----8h9-----| -----9p8-----|
D |-----7h9-----| -----9p7-----|
A |-----7h8-----| -----8p7-----|
E |--7h8-----| -----8p7--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e|-----|
B|-----|
G|-----8--|
D|-----7-----7--9--7--9--10--9--10--|
A|-----7-----7--8--7--8--11--8--11-----11-----|
E|--7--8--11--8--11-----11-----|

e|-----7-----7--8--7--8--11--|
B|-----9-----9--10--9--10--12--10--12-----12-----|
G|-----8--9--8--9--10--9--10-----10-----|
D|--10-----|
A|-----|
E|-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e|-----|
B|-----9--10--|
G|-----8-----8--9--10--9--10-----|
D|-----7--9--7--9--10-----10-----|
A|-----7-----7--8--11--8--11-----|
E|--7--8--11-----11-----|

e|-----7-----7--8--11-----|
B|--9--10--12-----12-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|-----7--8--11--|
B|-----9--10--12-----|
G|-----8--9--10-----|
D|-----7--9--10-----|
A|-----7--8--11-----|
E|--7--8--11-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U7--D8--U11--|
B|-----D9--U10--D12--|
G|-----U8--D9--U10--|
D|-----D7--U9--D10--|
A|-----U7--D8--U11--|
E|--D7--U8--D11-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->7--8--11--|
B|----->9--10--12--|
G|----->8--9--10-----|
D|----->7--9--10-----|
A|----->7--8--11-----|
E|-->7--8--11-----|

```

# D Double Harmonic

Notes: D, D#, F#, G, A, A#, C# | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 9-14

```
e |-----9--10--11--|
B |-----10--11--14-----|
G |-----11--12--14-----|
D |-----11--12--13-----|
A |-----9--10--12-----|
E |--9--10--11-----|
```

E:9=C# | E:10=D | E:11=D# | A:9=F# | A:10=G | A:12=A | D:11=C# | D:12=D | D:13=D# | G:11=F# | G:12=G | G:14=A |  
B:10=A | B:11=A# | B:14=C# | e:9=C# | e:10=D | e:11=D#

### Position 2

Frets 10-14

```
e |-----10--11--14--|
B |-----10--11--14-----|
G |-----11--12--14-----|
D |-----11--12--13-----|
A |-----10--12--13-----|
E |--10--11--14-----|
```

E:10=D | E:11=D# | E:14=F# | A:10=G | A:12=A | A:13=A# | D:11=C# | D:12=D | D:13=D# | G:11=F# | G:12=G | G:14=A |  
B:10=A | B:11=A# | B:14=C# | e:10=D | e:11=D# | e:14=F#

### Position 3

Frets 13-18

```
e |-----14--15--17--|
B |-----14--15--16-----|
G |-----14--15--18-----|
D |-----13--16--17-----|
A |-----13--16--17-----|
E |--14--15--17-----|
```

E:14=F# | E:15=G | E:17=A | A:13=A# | A:16=C# | A:17=D | D:13=D# | D:16=F# | D:17=G | G:14=A | G:15=A# | G:18=C# |  
B:14=C# | B:15=D | B:16=D# | e:14=F# | e:15=G | e:17=A

### Position 4

Frets 14-19

```
e |-----14--15--17--|
B |-----14--15--16-----|
G |-----14--15--18-----|
D |-----16--17--19-----|
A |-----16--17--18-----|
E |--14--15--17-----|
```



E:14=F# | E:15=G | E:17=A | A:16=C# | A:17=D | A:18=D# | D:16=F# | D:17=G | D:19=A | G:14=A | G:15=A# | G:18=C# |  
 B:14=C# | B:15=D | B:16=D# | e:14=F# | e:15=G | e:17=A

## Position 5

Frets 16-21

```

e |-----17--18--21--|
B |-----16--19--20-----|
G |-----18--19--20-----|
D |-----16--17--19-----|
A |-----16--17--18-----|
E |--17--18--21-----|
  
```

E:17=A | E:18=A# | E:21=C# | A:16=C# | A:17=D | A:18=D# | D:16=F# | D:17=G | D:19=A | G:18=C# | G:19=D | G:20=D# |  
 B:16=D# | B:19=F# | B:20=G | e:17=A | e:18=A# | e:21=C#

## Companion Chords

Play these chords over your D Double Harmonic exercises:

	Dm	Edim	Gm	Am
e	--1--	--X--	--3--	--0--
B	--3--	--8--	--3--	--1--
G	--2--	--9--	--3--	--2--
D	--0--	--8--	--5--	--2--
A	--X--	--7--	--5--	--0--
E	--X--	--X--	--3--	--X--

Progression: **Dm - Edim - Gm - Am**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----9--10--11--|
B |-----10--11--14-----|
G |-----11--12--14-----|
D |-----11--12--13-----|
A |-----9--10--12-----|
E |--9--10--11-----|
  
```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--11--10--9-----|
B |-----14--11--10-----|
G |-----14--12--11-----|
D |-----13--12--11-----|
A |-----12--10--9-----|
E |-----11--10--9-----|
  
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----9h10--| --10p9-----|
B |-----10h11-----| -----11p10-----|
G |-----11h12-----| -----12p11-----|
D |-----11h12-----| -----12p11-----|
A |-----9h10-----| -----10p9-----|
E |--9h10-----| -----10p9--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----11--|
D |-----11-----11--12--11--12--13--12--13-----|
A |----- 9----- 9--10-- 9--10--12--10--12-----12-----|
E |-- 9--10--11--10--11-----11-----|

e |----- 9----- 9--10-- 9--10--11--|
B |-----10-----10--11--10--11--14--11--14-----14-----|
G |-----11--12--11--12--14--12--14-----14-----|
D |--13-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----10--11--|
G |-----11-----11--12--14--12--14-----|
D |-----11--12--11--12--13-----13-----|
A |----- 9----- 9--10--12--10--12-----|
E |-- 9--10--11-----11-----|

e |----- 9----- 9--10--11-----|
B |--10--11--14-----14-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |----- 9--10--11--|
B |-----10--11--14-----|
G |-----11--12--14-----|
D |-----11--12--13-----|
A |----- 9--10--12-----|
E |-- 9--10--11-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U9--D10--U11--|
B |-----D10--U11--D14-----|
G |-----U11--D12--U14-----|
D |-----D11--U12--D13-----|
A |-----U9--D10--U12-----|
E |--D9--U10--D11-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->9--10--11--|
B |----->10--11--14-----|
G |----->11--12--14-----|
D |----->11--12--13-----|
A |----->9--10--12-----|
E |-->9--10--11-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----10--11--14--|
B |-----10--11--14-----|
G |-----11--12--14-----|
D |-----11--12--13-----|
A |-----10--12--13-----|
E |--10--11--14-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--14--11--10-----|
B |-----14--11--10-----|
G |-----14--12--11-----|
D |-----13--12--11-----|
A |-----13--12--10-----|
E |-----14--11--10--|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----10h11--| --11p10-----|
B |-----10h11-----| -----11p10-----|
G |-----11h12-----| -----12p11-----|
D |-----11h12-----| -----12p11-----|
A |-----10h12-----| -----12p10-----|
E |--10h11-----| -----11p10--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----11--|

```

```

D |-----11-----11--12--11--12--13--12--13-----|
A |-----10-----10--12--10--12--13--12--13-----13-----|
E |--10--11--14--11--14-----14-----|

e |-----10-----10--11--10--11--14--|
B |-----10-----10--11--10--11--14--11--14-----14-----|
G |-----11--12--11--12--14--12--14-----14-----|
D |--13-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----10--11--|
G |-----11-----11--12--14--12--14-----|
D |-----11--12--11--12--13-----13-----|
A |-----10-----10--12--13--12--13-----|
E |--10--11--14-----14-----|

e |-----10-----10--11--14-----|
B |--10--11--14-----14-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----10--11--14--|
B |-----10--11--14-----|
G |-----11--12--14-----|
D |-----11--12--13-----|
A |-----10--12--13-----|
E |--10--11--14-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U10--D11--U14--|
B |-----D10--U11--D14--|
G |-----U11--D12--U14--|
D |-----D11--U12--D13--|
A |-----U10--D12--U13--|
E |--D10--U11--D14-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->10--11--14--|
B |----->10--11--14--|
G |----->11--12--14--|
D |----->11--12--13--|
A |----->10--12--13--|
E |-->10--11--14-----|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----14--15--17--|
B |-----14--15--16-----|
G |-----14--15--18-----|
D |-----13--16--17-----|
A |-----13--16--17-----|
E |--14--15--17-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--17--15--14-----|
B |-----16--15--14-----|
G |-----18--15--14-----|
D |-----17--16--13-----|
A |-----17--16--13-----|
E |-----17--15--14-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----14h15--| --15p14-----|
B |-----14h15-----| -----15p14-----|
G |-----14h15-----| -----15p14-----|
D |-----13h16-----| -----16p13-----|
A |-----13h16-----| -----16p13-----|
E |--14h15-----| -----15p14--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----14--|
D |-----13-----13--16--13--16--17--16--17-----|
A |-----13-----13--16--13--16--17--16--17-----17-----|
E |--14--15--17--15--17-----17-----|

e |-----14-----14--15--14--15--16--15--16-----16-----|
B |-----14-----14--15--14--15--16--15--16-----16-----|
G |-----14--15--14--15--18--15--18-----18-----|
D |--17-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----14--15--|
G |-----14-----14--15--18--15--18-----|
D |-----13--16--13--16--17-----17-----|
A |-----13-----13--16--17--16--17-----|
```

```

E|--14--15--17-----17-----|
e|-----14-----14--15--17-----|
B|--14--15--16-----16-----|
G|-----14--15--18-----|
D|-----13--16--17-----|
A|-----13--16--17-----|
E|-----13--16--17-----|

```

### String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|-----14--15--17--|
B|-----14--15--16-----|
G|-----14--15--18-----|
D|-----13--16--17-----|
A|-----13--16--17-----|
E|--14--15--17-----|

```

### Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U14--D15--U17--|
B|-----D14--U15--D16-----|
G|-----U14--D15--U18-----|
D|-----D13--U16--D17-----|
A|-----U13--D16--U17-----|
E|--D14--U15--D17-----|

```

### Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->14--15--17--|
B|----->14--15--16-----|
G|----->14--15--18-----|
D|----->13--16--17-----|
A|----->13--16--17-----|
E|-->14--15--17-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|-----14--15--17--|
B|-----14--15--16-----|
G|-----14--15--18-----|
D|-----16--17--19-----|
A|-----16--17--18-----|
E|--14--15--17-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --17--15--14-----|
B | -----16--15--14-----|
G | -----18--15--14-----|
D | -----19--17--16-----|
A | -----18--17--16-----|
E | -----17--15--14-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----14h15-- | --15p14-----|
B | -----14h15-----| -----15p14-----|
G | -----14h15-----| -----15p14-----|
D | -----16h17-----| -----17p16-----|
A | -----16h17-----| -----17p16-----|
E | --14h15-----| -----15p14-----|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----14--|
D | -----16-----16--17--16--17--18--17--18-----18--|
A | -----16-----16--17--16--17--18--17--18-----18--|
E | --14--15--17--15--17-----17-----|

e | -----14-----14--15--14--15--17--|
B | -----14-----14--15--14--15--16--15--16-----16--|
G | -----14--15--14--15--18--15--18-----18-----|
D | --19-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----14--15--|
G | -----14-----14--15--18--15--18-----|
D | -----16--17--16--17--19-----19-----|
A | -----16-----16--17--18--17--18-----|
E | --14--15--17-----17-----|

e | -----14-----14--15--17-----|
B | --14--15--16-----16-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----14--15--17--|
B | -----14--15--16-----|
G | -----14--15--18-----|
D | -----16--17--19-----|
A | -----16--17--18-----|
E | --14--15--17-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e | -----U14--D15--U17--|
B | -----D14--U15--D16-----|
G | -----U14--D15--U18-----|
D | -----D16--U17--D19-----|
A | -----U16--D17--U18-----|
E | --D14--U15--D17-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e | ----->14--15--17--|
B | ----->14--15--16-----|
G | ----->14--15--18-----|
D | ----->16--17--19-----|
A | ----->16--17--18-----|
E | -->14--15--17-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e | -----17--18--21--|
B | -----16--19--20-----|
G | -----18--19--20-----|
D | -----16--17--19-----|
A | -----16--17--18-----|
E | --17--18--21-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e | --21--18--17-----|
B | -----20--19--16-----|
G | -----20--19--18-----|
D | -----19--17--16-----|
A | -----18--17--16-----|
E | -----21--18--17--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e | -----17h18--| --18p17-----|
B | -----16h19-----| -----19p16-----|
G | -----18h19-----| -----19p18-----|
D | -----16h17-----| -----17p16-----|
A | -----16h17-----| -----17p16-----|
E | --17h18-----| -----18p17--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*



```

e |-----|
B |-----|
G |-----18--|
D |-----16-----16--17--16--17--19--17--19--|
A |-----16-----16--17--16--17--18--17--18-----18--|
E |--17--18--21--18--21-----21-----|

e |-----17-----17--18--17--18--21--|
B |-----16-----16--19--16--19--20--19--20-----20--|
G |-----18--19--18--19--20--19--20-----20--|
D |--19-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----16--19--|
G |-----18-----18--19--20--19--20-----|
D |-----16--17--16--17--19-----19--|
A |-----16-----16--17--18--17--18--|
E |--17--18--21-----21-----|

e |-----17-----17--18--21-----|
B |--16--19--20-----20-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----17--18--21--|
B |-----16--19--20-----|
G |-----18--19--20-----|
D |-----16--17--19-----|
A |-----16--17--18-----|
E |--17--18--21-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U17--D18--U21--|
B |-----D16--U19--D20--|
G |-----U18--D19--U20--|
D |-----D16--U17--D19--|
A |-----U16--D17--U18--|
E |--D17--U18--D21-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->17--18--21--|
B |----->16--19--20--|
G |----->18--19--20--|
D |----->16--17--19--|
A |----->16--17--18--|
E |-->17--18--21-----|

```

# G Double Harmonic

Notes: G, Ab, B, C, D, Eb, Gb | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 2-7

```
e |-----2-- 3-- 4--|
B |-----3-- 4-- 7-----|
G |-----4-- 5-- 7-----|
D |-----4-- 5-- 6-----|
A |-----2-- 3-- 5-----|
E |-- 2-- 3-- 4-----|
```

E:2=Gb | E:3=G | E:4=Ab | A:2=B | A:3=C | A:5=D | D:4=Gb | D:5=G | D:6=Ab | G:4=B | G:5=C | G:7=D | B:3=D | B:4=Eb |  
B:7=Gb | e:2=Gb | e:3=G | e:4=Ab

### Position 2

Frets 3-7

```
e |-----3-- 4-- 7--|
B |-----3-- 4-- 7-----|
G |-----4-- 5-- 7-----|
D |-----4-- 5-- 6-----|
A |-----3-- 5-- 6-----|
E |-- 3-- 4-- 7-----|
```

E:3=G | E:4=Ab | E:7=B | A:3=C | A:5=D | A:6=Eb | D:4=Gb | D:5=G | D:6=Ab | G:4=B | G:5=C | G:7=D | B:3=D | B:4=Eb |  
B:7=Gb | e:3=G | e:4=Ab | e:7=B

### Position 3

Frets 6-11

```
e |-----7-- 8--10--|
B |-----7-- 8-- 9-----|
G |-----7-- 8--11-----|
D |-----6-- 9--10-----|
A |-----6-- 9--10-----|
E |-- 7-- 8--10-----|
```

E:7=B | E:8=C | E:10=D | A:6=Eb | A:9=Gb | A:10=G | D:6=Ab | D:9=B | D:10=C | G:7=D | G:8=Eb | G:11=Gb | B:7=Gb | B:8=G |  
B:9=Ab | e:7=B | e:8=C | e:10=D

### Position 4

Frets 7-12

```
e |-----7-- 8--10--|
B |-----7-- 8-- 9-----|
G |-----7-- 8--11-----|
D |-----9--10--12-----|
A |-----9--10--11-----|
E |-- 7-- 8--10-----|
```

E:7=B | E:8=C | E:10=D | A:9=Gb | A:10=G | A:11=Ab | D:9=B | D:10=C | D:12=D | G:7=D | G:8=Eb | G:11=Gb | B:7=Gb | B:8=G  
 | B:9=Ab | e:7=B | e:8=C | e:10=D

## Position 5

Frets 9-14

```

e |-----10--11--14--|
B |----- 9--12--13-----|
G |-----11--12--13-----|
D |----- 9--10--12-----|
A |----- 9--10--11-----|
E |--10--11--14-----|

```

E:10=D | E:11=Eb | E:14=Gb | A:9=Gb | A:10=G | A:11=Ab | D:9=B | D:10=C | D:12=D | G:11=Gb | G:12=G | G:13=Ab | B:9=Ab  
 | B:12=B | B:13=C | e:10=D | e:11=Eb | e:14=Gb

## Companion Chords

Play these chords over your G Double Harmonic exercises:

	Gm	Adim	Cm	Dm
e	--3--	--X--	--8--	--1--
B	--3--	--1--	--8--	--3--
G	--3--	--2--	--8--	--2--
D	--5--	--1--	--10--	--0--
A	--5--	--0--	--10--	--X--
E	--3--	--X--	--8--	--X--

Progression: **Gm - Adim - Cm - Dm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----2-- 3-- 4--|
B |-----3-- 4-- 7-----|
G |-----4-- 5-- 7-----|
D |-----4-- 5-- 6-----|
A |-----2-- 3-- 5-----|
E |--2-- 3-- 4-----|

```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--4-- 3-- 2-----|
B |-----7-- 4-- 3-----|
G |-----7-- 5-- 4-----|
D |-----6-- 5-- 4-----|
A |-----5-- 3-- 2-----|
E |-----4-- 3-- 2-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----2h3--| --3p2-----|
B |-----3h4-----| -----4p3-----|
G |-----4h5-----| -----5p4-----|
D |-----4h5-----| -----5p4-----|
A |-----2h3-----| -----3p2-----|
E |--2h3-----| -----3p2--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----4--|
D |-----4-- 4-- 5-- 4-- 5-- 6-- 5-- 6-----|
A |-----2----- 2-- 3-- 2-- 3-- 5-- 3-- 5-----5-----|
E |-- 2-- 3-- 4-- 3-- 4-----4-----|

e |-----2----- 2-- 3-- 2-- 3-- 4--|
B |-----3----- 3-- 4-- 3-- 4-- 7-- 4-- 7-----7-----|
G |-----4-- 5-- 4-- 5-- 7-- 5-- 7-----7-----|
D |-- 6-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----3-- 4--|
G |-----4-----4-- 5-- 7-- 5-- 7-----|
D |-----4-- 5-- 4-- 5-- 6-----6-----|
A |-----2-----2-- 3-- 5-- 3-- 5-----|
E |-- 2-- 3-- 4-----4-----|

e |-----2-----2-- 3-- 4-----|
B |-- 3-- 4-- 7-----7-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |-----2-- 3-- 4--|
B |-----3-- 4-- 7-----|
G |-----4-- 5-- 7-----|
D |-----4-- 5-- 6-----|
A |-----2-- 3-- 5-----|
E |-- 2-- 3-- 4-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U2--D3--U4--|
B |-----D3--U4--D7--|
G |-----U4--D5--U7--|
D |-----D4--U5--D6--|
A |-----U2--D3--U5--|
E |--D2--U3--D4-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->2-- 3-- 4--|
B |----->3-- 4-- 7--|
G |----->4-- 5-- 7--|
D |----->4-- 5-- 6--|
A |----->2-- 3-- 5--|
E |-->2-- 3-- 4-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |----- 3-- 4-- 7--|
B |----- 3-- 4-- 7--|
G |----- 4-- 5-- 7--|
D |----- 4-- 5-- 6--|
A |----- 3-- 5-- 6--|
E |-- 3-- 4-- 7-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 7-- 4-- 3-----|
B |----- 7-- 4-- 3-----|
G |----- 7-- 5-- 4-----|
D |----- 6-- 5-- 4-----|
A |----- 6-- 5-- 3-----|
E |----- 7-- 4-- 3-----|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----3h4--| --4p3-----|
B |-----3h4--| -----4p3-----|
G |-----4h5--| -----5p4-----|
D |-----4h5--| -----5p4-----|
A |-----3h5--| -----5p3-----|
E |--3h4-----| -----4p3--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |----- 4--|

```

```

D |----- 4----- 4-- 5-- 4-- 5-- 6-- 5-- 6-----|
A |----- 3----- 3-- 5-- 3-- 5-- 6-- 5-- 6----- 6-----|
E |-- 3-- 4-- 7-- 4-- 7----- 7-----|

e |----- 3----- 3-- 4-- 3-- 4-- 7--|
B |----- 3----- 3-- 4-- 3-- 4-- 7-- 4-- 7----- 7-----|
G |----- 4-- 5-- 4-- 5-- 7-- 5-- 7----- 7-----|
D |-- 6-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |----- 3-- 4--|
G |----- 4----- 4-- 5-- 7-- 5-- 7-----|
D |----- 4-- 5-- 4-- 5-- 6----- 6-----|
A |----- 3----- 3-- 5-- 6-- 5-- 6-----|
E |-- 3-- 4-- 7----- 7-----|

e |----- 3----- 3-- 4-- 7-----|
B |-- 3-- 4-- 7----- 7-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |----- 3-- 4-- 7--|
B |----- 3-- 4-- 7-----|
G |----- 4-- 5-- 7-----|
D |----- 4-- 5-- 6-----|
A |----- 3-- 5-- 6-----|
E |-- 3-- 4-- 7-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U3--D4--U7--|
B |-----D3--U4--D7--|
G |-----U4--D5--U7--|
D |-----D4--U5--D6--|
A |-----U3--D5--U6--|
E |--D3--U4--D7--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->3-- 4-- 7--|
B |----->3-- 4-- 7--|
G |----->4-- 5-- 7--|
D |----->4-- 5-- 6--|
A |----->3-- 5-- 6--|
E |-->3-- 4-- 7--|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----7-- 8--10--|
B |-----7-- 8-- 9-----|
G |-----7-- 8--11-----|
D |-----6-- 9--10-----|
A |-----6-- 9--10-----|
E |-- 7-- 8--10-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--10-- 8-- 7-----|
B |-----9-- 8-- 7-----|
G |-----11-- 8-- 7-----|
D |-----10-- 9-- 6-----|
A |-----10-- 9-- 6-----|
E |-----10-- 8-- 7-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----7h8--| --8p7-----|
B |-----7h8--| -----8p7-----|
G |-----7h8--| -----8p7-----|
D |-----6h9--| -----9p6-----|
A |-----6h9--| -----9p6-----|
E |--7h8--| -----8p7--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----7--|
D |-----6-- 6-- 9-- 6-- 9--10-- 9--10--|
A |-----6-- 6-- 9-- 6-- 9--10-- 9--10--10--|
E |-- 7-- 8--10-- 8--10--10--|

e |-----7-----7-- 8-- 7-- 8--10--|
B |-----7-----7-- 8-- 7-- 8-- 9-- 8-- 9-----9-----|
G |-----7-- 8-- 7-- 8--11-- 8--11--11-----|
D |--10-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----7-- 8--|
G |-----7-----7-- 8--11-- 8--11-----|
D |-----6-- 9-- 6-- 9--10--10-----|
A |-----6-- 6-- 9--10-- 9--10-----|
```

```

E|-- 7-- 8--10-----10-----|
e|----- 7----- 7-- 8--10-----|
B|-- 7-- 8-- 9----- 9-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|----- 7-- 8--10--|
B|----- 7-- 8-- 9-----|
G|----- 7-- 8--11-----|
D|----- 6-- 9--10-----|
A|----- 6-- 9--10-----|
E|-- 7-- 8--10-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U7--D8--U10--|
B|-----D7--U8--D9--|
G|-----U7--D8--U11--|
D|-----D6--U9--D10--|
A|-----U6--D9--U10--|
E|--D7--U8--D10--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->7-- 8--10--|
B|----->7-- 8-- 9-----|
G|----->7-- 8--11-----|
D|----->6-- 9--10-----|
A|----->6-- 9--10-----|
E|-->7-- 8--10-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|----- 7-- 8--10--|
B|----- 7-- 8-- 9-----|
G|----- 7-- 8--11-----|
D|----- 9--10--12-----|
A|----- 9--10--11-----|
E|-- 7-- 8--10-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*



```

e | --10-- 8-- 7-----|
B | ----- 9-- 8-- 7-----|
G | -----11-- 8-- 7-----|
D | -----12--10-- 9-----|
A | -----11--10-- 9-----|
E | -----10-- 8-- 7-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----7h8-- | --8p7-----|
B | -----7h8-- | -----8p7-----|
G | -----7h8-- | -----8p7-----|
D | -----9h10-- | -----10p9-----|
A | -----9h10-- | -----10p9-----|
E | --7h8----- | -----8p7-----|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | ----- 7--|
D | ----- 9----- 9--10-- 9--10--12--10--12-----|
A | ----- 9----- 9--10-- 9--10--11--10--11-----11-----|
E | -- 7-- 8--10-- 8--10-----10-----|

e | ----- 7----- 7-- 8-- 7-- 8--10--|
B | ----- 7----- 7-- 8-- 7-- 8-- 9-- 8-- 9----- 9-----|
G | ----- 7-- 8-- 7-- 8--11-- 8--11-----11-----|
D | --12-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | ----- 7-- 8--|
G | ----- 7----- 7-- 8--11-- 8--11-----|
D | ----- 9--10-- 9--10--12-----12-----|
A | ----- 9----- 9--10--11--10--11-----|
E | -- 7-- 8--10-----10-----|

e | ----- 7----- 7-- 8--10-----|
B | -- 7-- 8-- 9----- 9-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | ----- 7-- 8--10--|
B | ----- 7-- 8-- 9-----|
G | ----- 7-- 8--11-----|
D | ----- 9--10--12-----|
A | ----- 9--10--11-----|
E | -- 7-- 8--10-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U7--D8--U10--|
B |-----D7--U8--D9-----|
G |-----U7--D8--U11-----|
D |-----D9--U10--D12-----|
A |-----U9--D10--U11-----|
E |--D7--U8--D10-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->7-- 8--10--|
B |----->7-- 8-- 9-----|
G |----->7-- 8--11-----|
D |----->9--10--12-----|
A |----->9--10--11-----|
E |-->7-- 8--10-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----10--11--14--|
B |----- 9--12--13-----|
G |-----11--12--13-----|
D |----- 9--10--12-----|
A |----- 9--10--11-----|
E |--10--11--14-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--14--11--10-----|
B |-----13--12-- 9-----|
G |-----13--12--11-----|
D |-----12--10-- 9-----|
A |-----11--10-- 9-----|
E |-----14--11--10--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----10h11--| --11p10-----|
B |-----9h12-----| -----12p9-----|
G |-----11h12-----| -----12p11-----|
D |-----9h10-----| -----10p9-----|
A |-----9h10-----| -----10p9-----|
E |--10h11-----| -----11p10--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----11--|
D |-----9-----9--10--9--10--12--10--12--|
A |-----9-----9--10--9--10--11--10--11-----11-----|
E |--10--11--14--11--14-----14-----|

e |-----10-----10--11--10--11--14--|
B |-----9-----9--12--9--12--13--12--13-----13-----|
G |-----11--12--11--12--13--12--13-----13-----|
D |--12-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----9--12--|
G |-----11-----11--12--13--12--13-----|
D |-----9--10--9--10--12-----12-----|
A |-----9-----9--10--11--10--11-----|
E |--10--11--14-----14-----|

e |-----10-----10--11--14-----|
B |--9--12--13-----13-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----10--11--14--|
B |-----9--12--13-----|
G |-----11--12--13-----|
D |-----9--10--12-----|
A |-----9--10--11-----|
E |--10--11--14-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U10--D11--U14--|
B |-----D9--U12--D13--|
G |-----U11--D12--U13--|
D |-----D9--U10--D12--|
A |-----U9--D10--U11--|
E |--D10--U11--D14--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->10--11--14--|
B |----->9--12--13--|
G |----->11--12--13--|
D |----->9--10--12--|
A |----->9--10--11--|
E |-->10--11--14--|

```

# C Double Harmonic

Notes: C, Db, E, F, G, Ab, B | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 7-12

```
e |-----7-- 8-- 9--|
B |-----8-- 9--12-----|
G |-----9--10--12-----|
D |-----9--10--11-----|
A |-----7-- 8--10-----|
E |-- 7-- 8-- 9-----|
```

E:7=B | E:8=C | E:9=Db | A:7=E | A:8=F | A:10=G | D:9=B | D:10=C | D:11=Db | G:9=E | G:10=F | G:12=G | B:8=G | B:9=Ab |  
B:12=B | e:7=B | e:8=C | e:9=Db

### Position 2

Frets 8-12

```
e |-----8-- 9--12--|
B |-----8-- 9--12-----|
G |-----9--10--12-----|
D |-----9--10--11-----|
A |-----8--10--11-----|
E |-- 8-- 9--12-----|
```

E:8=C | E:9=Db | E:12=E | A:8=F | A:10=G | A:11=Ab | D:9=B | D:10=C | D:11=Db | G:9=E | G:10=F | G:12=G | B:8=G | B:9=Ab |  
B:12=B | e:8=C | e:9=Db | e:12=E

### Position 3

Frets 11-16

```
e |-----12--13--15--|
B |-----12--13--14-----|
G |-----12--13--16-----|
D |-----11--14--15-----|
A |-----11--14--15-----|
E |--12--13--15-----|
```

E:12=E | E:13=F | E:15=G | A:11=Ab | A:14=B | A:15=C | D:11=Db | D:14=E | D:15=F | G:12=G | G:13=Ab | G:16=B | B:12=B |  
B:13=C | B:14=Db | e:12=E | e:13=F | e:15=G

### Position 4

Frets 12-17

```
e |-----12--13--15--|
B |-----12--13--14-----|
G |-----12--13--16-----|
D |-----14--15--17-----|
A |-----14--15--16-----|
E |--12--13--15-----|
```

E:12=E | E:13=F | E:15=G | A:14=B | A:15=C | A:16=Db | D:14=E | D:15=F | D:17=G | G:12=G | G:13=Ab | G:16=B | B:12=B |  
 B:13=C | B:14=Db | e:12=E | e:13=F | e:15=G

## Position 5

Frets 14-19

```
e |-----15--16--19--|
B |-----14--17--18--|
G |-----16--17--18--|
D |-----14--15--17--|
A |-----14--15--16--|
E |--15--16--19-----|
```

E:15=G | E:16=Ab | E:19=B | A:14=B | A:15=C | A:16=Db | D:14=E | D:15=F | D:17=G | G:16=B | G:17=C | G:18=Db | B:14=Db  
 | B:17=E | B:18=F | e:15=G | e:16=Ab | e:19=B

## Companion Chords

Play these chords over your C Double Harmonic exercises:

	Cm	Ddim	Fm	Gm
e	--8--	--X--	--1--	--3--
B	--8--	--6--	--1--	--3--
G	--8--	--7--	--1--	--3--
D	--10--	--6--	--3--	--5--
A	--10--	--5--	--3--	--5--
E	--8--	--X--	--1--	--3--

Progression: **Cm - Ddim - Fm - Gm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----7-- 8-- 9--|
B |-----8-- 9--12-----|
G |-----9--10--12-----|
D |-----9--10--11-----|
A |-----7-- 8--10-----|
E |--7-- 8-- 9-----|
```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--9-- 8-- 7-----|
B |--12-- 9-- 8-----|
G |--12--10-- 9-----|
D |--11--10-- 9-----|
A |--10-- 8-- 7-----|
E |--9-- 8-- 7-----|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----7h8-- | --8p7-----|
B |-----8h9-- | -----9p8-----|
G |-----9h10-- | -----10p9-----|
D |-----9h10-- | -----10p9-----|
A |-----7h8-- | -----8p7-----|
E |--7h8----- | -----8p7-- |
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |----- 9--|
D |----- 9----- 9--10-- 9--10--11--10--11-----|
A |----- 7----- 7-- 8-- 7-- 8--10-- 8--10-----10-----|
E |-- 7-- 8-- 9-- 8-- 9----- 9-----|

e |----- 7----- 7-- 8-- 7-- 8-- 9--|
B |----- 8----- 8-- 9-- 8-- 9--12-- 9--12-----12-----|
G |----- 9--10-- 9--10--12--10--12-----12-----|
D |--11-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |----- 8-- 9--|
G |----- 9----- 9--10--12--10--12-----|
D |----- 9--10-- 9--10--11-----11-----|
A |----- 7----- 7-- 8--10-- 8--10-----|
E |-- 7-- 8-- 9----- 9-----|

e |----- 7----- 7-- 8-- 9-----|
B |-- 8-- 9--12-----12-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |----- 7-- 8-- 9--|
B |----- 8-- 9--12-----|
G |----- 9--10--12-----|
D |----- 9--10--11-----|
A |----- 7-- 8--10-----|
E |-- 7-- 8-- 9-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U7--D8--U9--|
B |-----D8--U9--D12-----|
G |-----U9--D10--U12-----|
D |-----D9--U10--D11-----|
A |-----U7--D8--U10-----|
E |--D7--U8--D9-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->7-- 8-- 9--|
B |----->8-- 9--12-----|
G |----->9--10--12-----|
D |----->9--10--11-----|
A |----->7-- 8--10-----|
E |-->7-- 8-- 9-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----8-- 9--12--|
B |-----8-- 9--12-----|
G |-----9--10--12-----|
D |-----9--10--11-----|
A |-----8--10--11-----|
E |--8-- 9--12-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--12-- 9-- 8-----|
B |-----12-- 9-- 8-----|
G |-----12--10-- 9-----|
D |-----11--10-- 9-----|
A |-----11--10-- 8-----|
E |-----12-- 9-- 8--|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----8h9--| --9p8-----|
B |-----8h9--| -----9p8-----|
G |-----9h10--| -----10p9-----|
D |-----9h10--| -----10p9-----|
A |-----8h10--| -----10p8-----|
E |--8h9--| -----9p8--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----9--|

```

```

D |----- 9----- 9--10-- 9--10--11--10--11-----|
A |----- 8----- 8--10-- 8--10--11--10--11-----11-----|
E |-- 8-- 9--12-- 9--12-----12-----|

e |----- 8----- 8-- 9-- 8-- 9--12--|
B |----- 8----- 8-- 9-- 8-- 9--12-- 9--12-----12-----|
G |----- 9--10-- 9--10--12--10--12-----12-----|
D |--11-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |----- 8-- 9--|
G |----- 9----- 9--10--12--10--12-----|
D |----- 9--10-- 9--10--11-----11-----|
A |----- 8----- 8--10--11--10--11-----|
E |-- 8-- 9--12-----12-----|

e |----- 8----- 8-- 9--12-----|
B |-- 8-- 9--12-----12-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |----- 8-- 9--12--|
B |----- 8-- 9--12-----|
G |----- 9--10--12-----|
D |----- 9--10--11-----|
A |----- 8--10--11-----|
E |-- 8-- 9--12-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U8--D9--U12--|
B |-----D8--U9--D12--|
G |-----U9--D10--U12--|
D |-----D9--U10--D11--|
A |-----U8--D10--U11--|
E |--D8--U9--D12-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->8-- 9--12--|
B |----->8-- 9--12-----|
G |----->9--10--12-----|
D |----->9--10--11-----|
A |----->8--10--11-----|
E |-->8-- 9--12-----|

```



## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----12--13--15--|
B |-----12--13--14-----|
G |-----12--13--16-----|
D |-----11--14--15-----|
A |-----11--14--15-----|
E |--12--13--15-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--15--13--12-----|
B |-----14--13--12-----|
G |-----16--13--12-----|
D |-----15--14--11-----|
A |-----15--14--11-----|
E |-----15--13--12-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----12h13--| --13p12-----|
B |-----12h13-----| -----13p12-----|
G |-----12h13-----| -----13p12-----|
D |-----11h14-----| -----14p11-----|
A |-----11h14-----| -----14p11-----|
E |--12h13-----| -----13p12--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----12--|
D |-----11-----11--14--11--14--15--14--15-----|
A |-----11-----11--14--11--14--15--14--15-----15-----|
E |--12--13--15--13--15-----15-----|

e |-----12-----12--13--12--13--15--|
B |-----12-----12--13--12--13--14--13--14-----14-----|
G |-----12--13--12--13--16--13--16-----16-----|
D |--15-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----12--13--|
G |-----12-----12--13--16--13--16-----|
D |-----11--14--11--14--15-----15-----|
A |-----11-----11--14--15--14--15-----|
```

```

E|--12--13--15-----15-----|
e|-----12-----12--13--15-----|
B|--12--13--14-----14-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

### String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|-----12--13--15--|
B|-----12--13--14-----|
G|-----12--13--16-----|
D|-----11--14--15-----|
A|-----11--14--15-----|
E|--12--13--15-----|

```

### Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U12--D13--U15--|
B|-----D12--U13--D14-----|
G|-----U12--D13--U16-----|
D|-----D11--U14--D15-----|
A|-----U11--D14--U15-----|
E|--D12--U13--D15-----|

```

### Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->12--13--15--|
B|----->12--13--14-----|
G|----->12--13--16-----|
D|----->11--14--15-----|
A|----->11--14--15-----|
E|-->12--13--15-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|-----12--13--15--|
B|-----12--13--14-----|
G|-----12--13--16-----|
D|-----14--15--17-----|
A|-----14--15--16-----|
E|--12--13--15-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --15--13--12-----|
B | -----14--13--12-----|
G | -----16--13--12-----|
D | -----17--15--14-----|
A | -----16--15--14-----|
E | -----15--13--12-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----12h13-- | --13p12-----|
B | -----12h13-----| -----13p12-----|
G | -----12h13-----| -----13p12-----|
D | -----14h15-----| -----15p14-----|
A | -----14h15-----| -----15p14-----|
E | --12h13-----| -----13p12--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----12--|
D | -----14-----14--15--14--15--16--15--16-----16-----|
A | -----14-----14--15--14--15--16--15--16-----16-----|
E | --12--13--15--13--15-----15-----|

e | -----12-----12--13--12--13--14--13--14-----14-----|
B | -----12-----12--13--12--13--14--13--14-----14-----|
G | -----12--13--12--13--16--13--16-----16-----|
D | --17-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----12--13--|
G | -----12-----12--13--16--13--16-----|
D | -----14--15--14--15--17-----17-----|
A | -----14-----14--15--16--15--16-----|
E | --12--13--15-----15-----|

e | -----12-----12--13--15-----|
B | --12--13--14-----14-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----12--13--15--|
B | -----12--13--14-----|
G | -----12--13--16-----|
D | -----14--15--17-----|
A | -----14--15--16-----|
E | --12--13--15-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U12--D13--U15--|
B |-----D12--U13--D14--|
G |-----U12--D13--U16--|
D |-----D14--U15--D17--|
A |-----U14--D15--U16--|
E |--D12--U13--D15--|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->12--13--15--|
B |----->12--13--14--|
G |----->12--13--16--|
D |----->14--15--17--|
A |----->14--15--16--|
E |-->12--13--15--|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----15--16--19--|
B |-----14--17--18--|
G |-----16--17--18--|
D |-----14--15--17--|
A |-----14--15--16--|
E |--15--16--19--|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--19--16--15--|
B |-----18--17--14--|
G |-----18--17--16--|
D |-----17--15--14--|
A |-----16--15--14--|
E |-----19--16--15--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----15h16--| --16p15-----|
B |-----14h17-----| -----17p14-----|
G |-----16h17-----| -----17p16-----|
D |-----14h15-----| -----15p14-----|
A |-----14h15-----| -----15p14-----|
E |--15h16-----| -----16p15--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----16--|
D |-----14-----14--15--14--15--17--15--17-----|
A |-----14-----14--15--14--15--16--15--16-----16-----|
E |--15--16--19--16--19-----19-----|

e |-----15-----15--16--15--16--19--|
B |-----14-----14--17--14--17--18--17--18-----18-----|
G |-----16--17--16--17--18--17--18-----18-----|
D |--17-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----14--17--|
G |-----16-----16--17--18--17--18-----|
D |-----14--15--14--15--17-----17-----|
A |-----14-----14--15--16--15--16-----|
E |--15--16--19-----19-----|

e |-----15-----15--16--19-----|
B |--14--17--18-----18-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----15--16--19--|
B |-----14--17--18-----|
G |-----16--17--18-----|
D |-----14--15--17-----|
A |-----14--15--16-----|
E |--15--16--19-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U15--D16--U19--|
B |-----D14--U17--D18--|
G |-----U16--D17--U18--|
D |-----D14--U15--D17--|
A |-----U14--D15--U16--|
E |--D15--U16--D19--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->15--16--19--|
B |----->14--17--18--|
G |----->16--17--18--|
D |----->14--15--17--|
A |----->14--15--16--|
E |-->15--16--19--|

```

# B Double Harmonic

Notes: B, C, D#, E, F#, G, A# | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 6-11

```
e |-----6-- 7-- 8--|
B |-----7-- 8--11-----|
G |-----8-- 9--11-----|
D |-----8-- 9--10-----|
A |-----6-- 7-- 9-----|
E |-- 6-- 7-- 8-----|
```

E:6=A# | E:7=B | E:8=C | A:6=D# | A:7=E | A:9=F# | D:8=A# | D:9=B | D:10=C | G:8=D# | G:9=E | G:11=F# | B:7=F# |  
B:8=G | B:11=A# | e:6=A# | e:7=B | e:8=C

### Position 2

Frets 7-11

```
e |-----7-- 8--11--|
B |-----7-- 8--11-----|
G |-----8-- 9--11-----|
D |-----8-- 9--10-----|
A |-----7-- 9--10-----|
E |-- 7-- 8--11-----|
```

E:7=B | E:8=C | E:11=D# | A:7=E | A:9=F# | A:10=G | D:8=A# | D:9=B | D:10=C | G:8=D# | G:9=E | G:11=F# | B:7=F# |  
B:8=G | B:11=A# | e:7=B | e:8=C | e:11=D#

### Position 3

Frets 10-15

```
e |-----11--12--14--|
B |-----11--12--13-----|
G |-----11--12--15-----|
D |-----10--13--14-----|
A |-----10--13--14-----|
E |--11--12--14-----|
```

E:11=D# | E:12=E | E:14=F# | A:10=G | A:13=A# | A:14=B | D:10=C | D:13=D# | D:14=E | G:11=F# | G:12=G | G:15=A# |  
B:11=A# | B:12=B | B:13=C | e:11=D# | e:12=E | e:14=F#

### Position 4

Frets 11-16

```
e |-----11--12--14--|
B |-----11--12--13-----|
G |-----11--12--15-----|
D |-----13--14--16-----|
A |-----13--14--15-----|
E |--11--12--14-----|
```

E:11=D# | E:12=E | E:14=F# | A:13=A# | A:14=B | A:15=C | D:13=D# | D:14=E | D:16=F# | G:11=F# | G:12=G | G:15=A# |  
 B:11=A# | B:12=B | B:13=C | e:11=D# | e:12=E | e:14=F#

## Position 5

Frets 13-18

```
e |-----14--15--18--|
B |-----13--16--17--|
G |-----15--16--17--|
D |-----13--14--16--|
A |-----13--14--15--|
E |--14--15--18-----|
```

E:14=F# | E:15=G | E:18=A# | A:13=A# | A:14=B | A:15=C | D:13=D# | D:14=E | D:16=F# | G:15=A# | G:16=B | G:17=C |  
 B:13=C | B:16=D# | B:17=E | e:14=F# | e:15=G | e:18=A#

## Companion Chords

Play these chords over your B Double Harmonic exercises:

	Bm	C#dim	Em	F#m
e	--2--	--X--	--0--	--2--
B	--3--	--5--	--0--	--2--
G	--4--	--6--	--0--	--2--
D	--4--	--5--	--2--	--4--
A	--2--	--4--	--2--	--4--
E	--X--	--X--	--0--	--2--

Progression: **Bm - C#dim - Em - F#m**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----6-- 7-- 8--|
B |-----7-- 8--11-----|
G |-----8-- 9--11-----|
D |-----8-- 9--10-----|
A |-----6-- 7-- 9-----|
E |--6-- 7-- 8-----|
```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--8-- 7-- 6-----|
B |--11-- 8-- 7-----|
G |--11-- 9-- 8-----|
D |--10-- 9-- 8-----|
A |--9-- 7-- 6-----|
E |--8-- 7-- 6-----|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----6h7--| --7p6-----|
B |-----7h8-----| -----8p7-----|
G |-----8h9-----| -----9p8-----|
D |-----8h9-----| -----9p8-----|
A |-----6h7-----| -----7p6-----|
E |--6h7-----| -----7p6--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----8--|
D |-----8-- 8-- 9-- 8-- 9--10-- 9--10-----|
A |-----6----- 6-- 7-- 6-- 7-- 9-- 7-- 9----- 9-----|
E |-- 6-- 7-- 8-- 7-- 8----- 8-----|

e |-----6----- 6-- 7-- 6-- 7-- 8--|
B |-----7----- 7-- 8-- 7-- 8--11-- 8--11-----11-----|
G |-----8-- 9-- 8-- 9--11-- 9--11-----11-----|
D |--10-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----7-- 8--|
G |-----8----- 8-- 9--11-- 9--11-----|
D |-----8-- 9-- 8-- 9--10-----10-----|
A |-----6----- 6-- 7-- 9-- 7-- 9-----|
E |-- 6-- 7-- 8----- 8-----|

e |-----6----- 6-- 7-- 8-----|
B |-- 7-- 8--11-----11-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |-----6-- 7-- 8--|
B |-----7-- 8--11-----|
G |-----8-- 9--11-----|
D |-----8-- 9--10-----|
A |-----6-- 7-- 9-----|
E |-- 6-- 7-- 8-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*



```

e |-----U6--D7--U8--|
B |-----D7--U8--D11-----|
G |-----U8--D9--U11-----|
D |-----D8--U9--D10-----|
A |-----U6--D7--U9-----|
E |--D6--U7--D8-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->6-- 7-- 8--|
B |----->7-- 8--11-----|
G |----->8-- 9--11-----|
D |----->8-- 9--10-----|
A |----->6-- 7-- 9-----|
E |-->6-- 7-- 8-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |----- 7-- 8--11--|
B |----- 7-- 8--11-----|
G |----- 8-- 9--11-----|
D |----- 8-- 9--10-----|
A |----- 7-- 9--10-----|
E |-- 7-- 8--11-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--11-- 8-- 7-----|
B |-----11-- 8-- 7-----|
G |-----11-- 9-- 8-----|
D |-----10-- 9-- 8-----|
A |-----10-- 9-- 7-----|
E |-----11-- 8-- 7--|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----7h8--| --8p7-----|
B |-----7h8-----| -----8p7-----|
G |-----8h9-----| -----9p8-----|
D |-----8h9-----| -----9p8-----|
A |-----7h9-----| -----9p7-----|
E |--7h8-----| -----8p7--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |----- 8--|

```

```

D |-----8-----8-- 9-- 8-- 9--10-- 9--10-----|
A |-----7-----7-- 9-- 7-- 9--10-- 9--10-----10-----|
E |-- 7-- 8--11-- 8--11-----11-----|

e |-----7-----7-- 8-- 7-- 8--11--|
B |-----7-----7-- 8-- 7-- 8--11-- 8--11-----11-----|
G |-----8-- 9-- 8-- 9--11-- 9--11-----11-----|
D |--10-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----7-- 8--|
G |-----8-----8-- 9--11-- 9--11-----|
D |-----8-- 9-- 8-- 9--10-----10-----|
A |-----7-----7-- 9--10-- 9--10-----|
E |-- 7-- 8--11-----11-----|

e |-----7-----7-- 8--11-----|
B |-- 7-- 8--11-----11-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----7-- 8--11--|
B |-----7-- 8--11-----|
G |-----8-- 9--11-----|
D |-----8-- 9--10-----|
A |-----7-- 9--10-----|
E |-- 7-- 8--11-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U7--D8--U11--|
B |-----D7--U8--D11--|
G |-----U8--D9--U11--|
D |-----D8--U9--D10--|
A |-----U7--D9--U10--|
E |--D7--U8--D11-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->7-- 8--11--|
B |----->7-- 8--11--|
G |----->8-- 9--11--|
D |----->8-- 9--10--|
A |----->7-- 9--10--|
E |-->7-- 8--11-----|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----11--12--14--|
B |-----11--12--13-----|
G |-----11--12--15-----|
D |-----10--13--14-----|
A |-----10--13--14-----|
E |--11--12--14-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--14--12--11-----|
B |-----13--12--11-----|
G |-----15--12--11-----|
D |-----14--13--10-----|
A |-----14--13--10-----|
E |-----14--12--11-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----11h12--| --12p11-----|
B |-----11h12-----| -----12p11-----|
G |-----11h12-----| -----12p11-----|
D |-----10h13-----| -----13p10-----|
A |-----10h13-----| -----13p10-----|
E |--11h12-----| -----12p11--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----11--|
D |-----10-----10--13--10--13--14--13--14-----|
A |-----10-----10--13--10--13--14--13--14-----14-----|
E |--11--12--14--12--14-----14-----|

e |-----11-----11--12--11--12--14--|
B |-----11-----11--12--11--12--13--12--13-----13-----|
G |-----11--12--11--12--15--12--15-----15-----|
D |--14-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----11--12--|
G |-----11-----11--12--15--12--15-----|
D |-----10--13--10--13--14-----14-----|
A |-----10-----10--13--14--13--14-----|
```

```

E|--11--12--14-----14-----|
e|-----11-----11--12--14-----|
B|--11--12--13-----13-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

### String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|-----11--12--14--|
B|-----11--12--13-----|
G|-----11--12--15-----|
D|-----10--13--14-----|
A|-----10--13--14-----|
E|--11--12--14-----|

```

### Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U11--D12--U14--|
B|-----D11--U12--D13-----|
G|-----U11--D12--U15-----|
D|-----D10--U13--D14-----|
A|-----U10--D13--U14-----|
E|--D11--U12--D14-----|

```

### Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->11--12--14--|
B|----->11--12--13-----|
G|----->11--12--15-----|
D|----->10--13--14-----|
A|----->10--13--14-----|
E|-->11--12--14-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|-----11--12--14--|
B|-----11--12--13-----|
G|-----11--12--15-----|
D|-----13--14--16-----|
A|-----13--14--15-----|
E|--11--12--14-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --14--12--11-----|
B | -----13--12--11-----|
G | -----15--12--11-----|
D | -----16--14--13-----|
A | -----15--14--13-----|
E | -----14--12--11-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----11h12-- | --12p11-----|
B | -----11h12-----| -----12p11-----|
G | -----11h12-----| -----12p11-----|
D | -----13h14-----| -----14p13-----|
A | -----13h14-----| -----14p13-----|
E | --11h12-----| -----12p11--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----11--|
D | -----13-----13--14--13--14--15--14--15-----15-----|
A | -----13-----13--14--13--14--15--14--15-----15-----|
E | --11--12--14--12--14-----14-----|

e | -----11-----11--12--11--12--14--|
B | -----11-----11--12--11--12--13--12--13-----13-----|
G | -----11--12--11--12--15--12--15-----15-----|
D | --16-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----11--12--|
G | -----11-----11--12--15--12--15-----|
D | -----13--14--13--14--16-----16-----|
A | -----13-----13--14--15--14--15-----|
E | --11--12--14-----14-----|

e | -----11-----11--12--14-----|
B | --11--12--13-----13-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----11--12--14--|
B | -----11--12--13-----|
G | -----11--12--15-----|
D | -----13--14--16-----|
A | -----13--14--15-----|
E | --11--12--14-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U11--D12--U14--|
B |-----D11--U12--D13--|
G |-----U11--D12--U15--|
D |-----D13--U14--D16--|
A |-----U13--D14--U15--|
E |--D11--U12--D14-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->11--12--14--|
B |----->11--12--13--|
G |----->11--12--15--|
D |----->13--14--16--|
A |----->13--14--15--|
E |-->11--12--14-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----14--15--18--|
B |-----13--16--17--|
G |-----15--16--17--|
D |-----13--14--16--|
A |-----13--14--15--|
E |--14--15--18-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--18--15--14-----|
B |-----17--16--13-----|
G |-----17--16--15-----|
D |-----16--14--13-----|
A |-----15--14--13-----|
E |--18--15--14-----|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----14h15--| --15p14-----|
B |-----13h16-----| -----16p13-----|
G |-----15h16-----| -----16p15-----|
D |-----13h14-----| -----14p13-----|
A |-----13h14-----| -----14p13-----|
E |--14h15-----| -----15p14--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

e		-----	
B		-----	
G		-----15--	
D		-----13-----13--14--13--14--16--14--16--	
A		-----13-----13--14--13--14--15--14--15-----15-----	
E		--14--15--18--15--18-----18-----	

  

e		-----14-----14--15--14--15--18--	
B		-----13-----13--16--13--16--17--16--17-----17-----	
G		-----15--16--15--16--17--16--17-----17-----	
D		--16-----	
A		-----	
E		-----	

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

e		-----	
B		-----13--16--	
G		-----15-----15--16--17--16--17-----	
D		-----13--14--13--14--16-----16-----	
A		-----13-----13--14--15--14--15-----	
E		--14--15--18-----18-----	

  

e		-----14-----14--15--18-----	
B		--13--16--17-----17-----	
G		-----	
D		-----	
A		-----	
E		-----	

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

e		-----14--15--18--
B		-----13--16--17-----
G		-----15--16--17-----
D		-----13--14--16-----
A		-----13--14--15-----
E		--14--15--18-----

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

e		-----U14--D15--U18--
B		-----D13--U16--D17-----
G		-----U15--D16--U17-----
D		-----D13--U14--D16-----
A		-----U13--D14--U15-----
E		--D14--U15--D18-----

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

e		----->14--15--18--
B		----->13--16--17-----
G		----->15--16--17-----
D		----->13--14--16-----
A		----->13--14--15-----
E		-->14--15--18-----

PART

# Sharp and Flat Keys

---

Keys that require barre chords and less intuitive positions. These keys unlock the full fretboard and prepare you for any musical situation – jazz standards, horn-section keys, and modulating progressions.

F# Double Harmonic, Bb Double Harmonic, Eb Double Harmonic, Ab Double Harmonic, Db Double Harmonic, F Double Harmonic



# F# Double Harmonic

Notes: F#, G, A#, B, C#, D, F | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 1-6

```
e |----- 1-- 2-- 3--|
B |----- 2-- 3-- 6-----|
G |----- 3-- 4-- 6-----|
D |----- 3-- 4-- 5-----|
A |----- 1-- 2-- 4-----|
E |-- 1-- 2-- 3-----|
```

E:1=F | E:2=F# | E:3=G | A:1=A# | A:2=B | A:4=C# | D:3=F | D:4=F# | D:5=G | G:3=A# | G:4=B | G:6=C# | B:2=C# | B:3=D  
| B:6=F | e:1=F | e:2=F# | e:3=G

### Position 2

Frets 2-6

```
e |----- 2-- 3-- 6--|
B |----- 2-- 3-- 6-----|
G |----- 3-- 4-- 6-----|
D |----- 3-- 4-- 5-----|
A |----- 2-- 4-- 5-----|
E |-- 2-- 3-- 6-----|
```

E:2=F# | E:3=G | E:6=A# | A:2=B | A:4=C# | A:5=D | D:3=F | D:4=F# | D:5=G | G:3=A# | G:4=B | G:6=C# | B:2=C# | B:3=D  
| B:6=F | e:2=F# | e:3=G | e:6=A#

### Position 3

Frets 5-10

```
e |----- 6-- 7-- 9--|
B |----- 6-- 7-- 8-----|
G |----- 6-- 7--10-----|
D |----- 5-- 8-- 9-----|
A |----- 5-- 8-- 9-----|
E |-- 6-- 7-- 9-----|
```

E:6=A# | E:7=B | E:9=C# | A:5=D | A:8=F | A:9=F# | D:5=G | D:8=A# | D:9=B | G:6=C# | G:7=D | G:10=F | B:6=F | B:7=F#  
| B:8=G | e:6=A# | e:7=B | e:9=C#

### Position 4

Frets 6-11

```
e |----- 6-- 7-- 9--|
B |----- 6-- 7-- 8-----|
G |----- 6-- 7--10-----|
D |----- 8-- 9--11-----|
A |----- 8-- 9--10-----|
E |-- 6-- 7-- 9-----|
```

E:6=A# | E:7=B | E:9=C# | A:8=F | A:9=F# | A:10=G | D:8=A# | D:9=B | D:11=C# | G:6=C# | G:7=D | G:10=F | B:6=F |  
 B:7=F# | B:8=G | e:6=A# | e:7=B | e:9=C#

## Position 5

Frets 8-13

```

e |-----9--10--13--|
B |-----8--11--12-----|
G |-----10--11--12-----|
D |-----8-- 9--11-----|
A |-----8-- 9--10-----|
E |-- 9--10--13-----|
  
```

E:9=C# | E:10=D | E:13=F | A:8=F | A:9=F# | A:10=G | D:8=A# | D:9=B | D:11=C# | G:10=F | G:11=F# | G:12=G | B:8=G |  
 B:11=A# | B:12=B | e:9=C# | e:10=D | e:13=F

## Companion Chords

Play these chords over your F# Double Harmonic exercises:

	F#m	G#dim	Bm	C#m
e	--2--	--X--	--2--	--9--
B	--2--	--12--	--3--	--9--
G	--2--	--13--	--4--	--9--
D	--4--	--12--	--4--	--11--
A	--4--	--11--	--2--	--11--
E	--2--	--X--	--X--	--9--

Progression: **F#m - G#dim - Bm - C#m**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----1-- 2-- 3--|
B |-----2-- 3-- 6-----|
G |-----3-- 4-- 6-----|
D |-----3-- 4-- 5-----|
A |-----1-- 2-- 4-----|
E |-- 1-- 2-- 3-----|
  
```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 3-- 2-- 1-----|
B |-----6-- 3-- 2-----|
G |-----6-- 4-- 3-----|
D |-----5-- 4-- 3-----|
A |-----4-- 2-- 1-----|
E |-----3-- 2-- 1-----|
  
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----1h2--| --2p1-----|
B |-----2h3-----| -----3p2-----|
G |-----3h4-----| -----4p3-----|
D |-----3h4-----| -----4p3-----|
A |-----1h2-----| -----2p1-----|
E |--1h2-----| -----2p1--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |----- 3--|
D |----- 3----- 3-- 4-- 3-- 4-- 5-- 4-- 5-----|
A |----- 1----- 1-- 2-- 1-- 2-- 4-- 2-- 4----- 4-----|
E |-- 1-- 2-- 3-- 2-- 3----- 3-----|

e |----- 1----- 1-- 2-- 1-- 2-- 3--|
B |----- 2----- 2-- 3-- 2-- 3-- 6-- 3-- 6----- 6-----|
G |----- 3-- 4-- 3-- 4-- 6-- 4-- 6----- 6-----|
D |-- 5-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |----- 2-- 3--|
G |----- 3----- 3-- 4-- 6-- 4-- 6-----|
D |----- 3-- 4-- 3-- 4-- 5----- 5-----|
A |----- 1----- 1-- 2-- 4-- 2-- 4-----|
E |-- 1-- 2-- 3----- 3-----|

e |----- 1----- 1-- 2-- 3-----|
B |-- 2-- 3-- 6----- 6-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |----- 1-- 2-- 3--|
B |----- 2-- 3-- 6-----|
G |----- 3-- 4-- 6-----|
D |----- 3-- 4-- 5-----|
A |----- 1-- 2-- 4-----|
E |-- 1-- 2-- 3-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U1--D2--U3--|
B |-----D2--U3--D6-----|
G |-----U3--D4--U6-----|
D |-----D3--U4--D5-----|
A |-----U1--D2--U4-----|
E |--D1--U2--D3-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->1-- 2-- 3--|
B |----->2-- 3-- 6-----|
G |----->3-- 4-- 6-----|
D |----->3-- 4-- 5-----|
A |----->1-- 2-- 4-----|
E |-->1-- 2-- 3-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |----- 2-- 3-- 6--|
B |----- 2-- 3-- 6-----|
G |----- 3-- 4-- 6-----|
D |----- 3-- 4-- 5-----|
A |----- 2-- 4-- 5-----|
E |-- 2-- 3-- 6-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 6-- 3-- 2-----|
B |----- 6-- 3-- 2-----|
G |----- 6-- 4-- 3-----|
D |----- 5-- 4-- 3-----|
A |----- 5-- 4-- 2-----|
E |----- 6-- 3-- 2--|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----2h3--| --3p2-----|
B |-----2h3-----| -----3p2-----|
G |-----3h4-----| -----4p3-----|
D |-----3h4-----| -----4p3-----|
A |-----2h4-----| -----4p2-----|
E |--2h3-----| -----3p2--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |----- 3--|

```

```

D |----- 3----- 3-- 4-- 3-- 4-- 5-- 4-- 5-----|
A |----- 2----- 2-- 4-- 2-- 4-- 5-- 4-- 5----- 5-----|
E |-- 2-- 3-- 6-- 3-- 6----- 6-----|

e |----- 2----- 2-- 3-- 2-- 3-- 6--|
B |----- 2----- 2-- 3-- 2-- 3-- 6-- 3-- 6----- 6-----|
G |----- 3-- 4-- 3-- 4-- 6-- 4-- 6----- 6-----|
D |-- 5-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |----- 2-- 3--|
G |----- 3----- 3-- 4-- 6-- 4-- 6-----|
D |----- 3-- 4-- 3-- 4-- 5----- 5-----|
A |----- 2----- 2-- 4-- 5-- 4-- 5-----|
E |-- 2-- 3-- 6----- 6-----|

e |----- 2----- 2-- 3-- 6-----|
B |-- 2-- 3-- 6----- 6-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |----- 2-- 3-- 6--|
B |----- 2-- 3-- 6-----|
G |----- 3-- 4-- 6-----|
D |----- 3-- 4-- 5-----|
A |----- 2-- 4-- 5-----|
E |-- 2-- 3-- 6-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U2--D3--U6--|
B |-----D2--U3--D6--|
G |-----U3--D4--U6--|
D |-----D3--U4--D5--|
A |-----U2--D4--U5--|
E |--D2--U3--D6--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->2-- 3-- 6--|
B |----->2-- 3-- 6--|
G |----->3-- 4-- 6--|
D |----->3-- 4-- 5--|
A |----->2-- 4-- 5--|
E |-->2-- 3-- 6--|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----6-- 7-- 9--|
B |-----6-- 7-- 8-----|
G |-----6-- 7--10-----|
D |-----5-- 8-- 9-----|
A |-----5-- 8-- 9-----|
E |-- 6-- 7-- 9-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |-- 9-- 7-- 6-----|
B |-----8-- 7-- 6-----|
G |-----10-- 7-- 6-----|
D |-----9-- 8-- 5-----|
A |-----9-- 8-- 5-----|
E |-----9-- 7-- 6-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----6h7--| --7p6-----|
B |-----6h7--| -----7p6-----|
G |-----6h7--| -----7p6-----|
D |-----5h8--| -----8p5-----|
A |-----5h8--| -----8p5-----|
E |--6h7-----| -----7p6--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----6--|
D |-----5-- 5-- 8-- 5-- 8-- 9-- 8-- 9--|
A |-----5-- 5-- 8-- 5-- 8-- 9-- 8-- 9--|
E |-- 6-- 7-- 9-- 7-- 9-- 9--|

e |-----6-----6-- 7-- 6-- 7-- 9--|
B |-----6-----6-- 7-- 6-- 7-- 8-- 7-- 8-----8-----|
G |-----6-- 7-- 6-- 7--10-- 7--10-----10-----|
D |-- 9-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----6-- 7--|
G |-----6-----6-- 7--10-- 7--10-----|
D |-----5-- 8-- 5-- 8-- 9-----9-----|
A |-----5-----5-- 8-- 9-- 8-- 9-----|
```

```

E|-- 6-- 7-- 9----- 9-----|
e|----- 6----- 6-- 7-- 9-----|
B|-- 6-- 7-- 8----- 8-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|----- 6-- 7-- 9--|
B|----- 6-- 7-- 8-----|
G|----- 6-- 7--10-----|
D|----- 5-- 8-- 9-----|
A|----- 5-- 8-- 9-----|
E|-- 6-- 7-- 9-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U6--D7--U9--|
B|-----D6--U7--D8--|
G|-----U6--D7--U10--|
D|-----D5--U8--D9--|
A|-----U5--D8--U9--|
E|--D6--U7--D9--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->6-- 7-- 9--|
B|----->6-- 7-- 8--|
G|----->6-- 7--10--|
D|----->5-- 8-- 9--|
A|----->5-- 8-- 9--|
E|-->6-- 7-- 9--|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|----- 6-- 7-- 9--|
B|----- 6-- 7-- 8--|
G|----- 6-- 7--10--|
D|----- 8-- 9--11--|
A|----- 8-- 9--10--|
E|-- 6-- 7-- 9--|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | -- 9-- 7-- 6-----|
B | ----- 8-- 7-- 6-----|
G | -----10-- 7-- 6-----|
D | -----11-- 9-- 8-----|
A | -----10-- 9-- 8-----|
E | ----- 9-- 7-- 6--|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----6h7--| --7p6-----|
B | -----6h7--| -----7p6-----|
G | -----6h7--| -----7p6-----|
D | -----8h9--| -----9p8-----|
A | -----8h9--| -----9p8-----|
E | --6h7-----| -----7p6--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | ----- 6--|
D | ----- 8----- 8-- 9-- 8-- 9--10-- 9--10-----10-----|
A | ----- 8----- 8-- 9-- 8-- 9--10-- 9--10-----10-----|
E | -- 6-- 7-- 9-- 7-- 9----- 9-----|

e | ----- 6----- 6-- 7-- 6-- 7-- 9--|
B | ----- 6----- 6-- 7-- 6-- 7-- 8-- 7-- 8----- 8-----|
G | ----- 6-- 7-- 6-- 7--10-- 7--10-----10-----|
D | --11-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | ----- 6-- 7--|
G | ----- 6----- 6-- 7--10-- 7--10-----|
D | ----- 8-- 9-- 8-- 9--11-----11-----|
A | ----- 8----- 8-- 9--10-- 9--10-----|
E | -- 6-- 7-- 9----- 9-----|

e | ----- 6----- 6-- 7-- 9-----|
B | -- 6-- 7-- 8----- 8-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | ----- 6-- 7-- 9--|
B | ----- 6-- 7-- 8-----|
G | ----- 6-- 7--10-----|
D | ----- 8-- 9--11-----|
A | ----- 8-- 9--10-----|
E | -- 6-- 7-- 9-----|

```



## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U6--D7--U9--|
B |-----D6--U7--D8--|
G |-----U6--D7--U10-----|
D |-----D8--U9--D11-----|
A |-----U8--D9--U10-----|
E |--D6--U7--D9-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->6-- 7-- 9--|
B |----->6-- 7-- 8--|
G |----->6-- 7--10-----|
D |----->8-- 9--11-----|
A |----->8-- 9--10-----|
E |-->6-- 7-- 9-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----9--10--13--|
B |-----8--11--12-----|
G |-----10--11--12-----|
D |-----8-- 9--11-----|
A |-----8-- 9--10-----|
E |--9--10--13-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--13--10-- 9-----|
B |-----12--11-- 8-----|
G |-----12--11--10-----|
D |-----11-- 9-- 8-----|
A |-----10-- 9-- 8-----|
E |-----13--10-- 9--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----9h10--| --10p9-----|
B |-----8h11-----| -----11p8-----|
G |-----10h11-----| -----11p10-----|
D |-----8h9-----| -----9p8-----|
A |-----8h9-----| -----9p8-----|
E |--9h10-----| -----10p9--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----10--|
D |-----8-----8--9--8--9--10--9--10-----10--|
A |-----8-----8--9--8--9--10--9--10-----10--|
E |--9--10--13--10--13-----13--|

e |-----9-----9--10--9--10--13--|
B |-----8-----8--11--8--11--12--11--12-----12--|
G |-----10--11--10--11--12--11--12-----12--|
D |--11-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----8--11--|
G |-----10-----10--11--12--11--12-----|
D |-----8--9--8--9--11-----11--|
A |-----8-----8--9--10--9--10-----|
E |--9--10--13-----13--|

e |-----9-----9--10--13-----|
B |--8--11--12-----12--|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----9--10--13--|
B |-----8--11--12-----|
G |-----10--11--12-----|
D |-----8--9--11-----|
A |-----8--9--10-----|
E |--9--10--13-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U9--D10--U13--|
B |-----D8--U11--D12--|
G |-----U10--D11--U12--|
D |-----D8--U9--D11--|
A |-----U8--D9--U10--|
E |--D9--U10--D13--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->9--10--13--|
B |----->8--11--12--|
G |----->10--11--12--|
D |----->8--9--11--|
A |----->8--9--10--|
E |-->9--10--13--|

```

# Bb Double Harmonic

Notes: Bb, B, D, Eb, F, Gb, A | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 5-10

```
e |-----5-- 6-- 7--|
B |-----6-- 7--10-----|
G |-----7-- 8--10-----|
D |-----7-- 8-- 9-----|
A |-----5-- 6-- 8-----|
E |-- 5-- 6-- 7-----|
```

E:5=A | E:6=Bb | E:7=B | A:5=D | A:6=Eb | A:8=F | D:7=A | D:8=Bb | D:9=B | G:7=D | G:8=Eb | G:10=F | B:6=F | B:7=Gb |  
B:10=A | e:5=A | e:6=Bb | e:7=B

### Position 2

Frets 6-10

```
e |-----6-- 7--10--|
B |-----6-- 7--10-----|
G |-----7-- 8--10-----|
D |-----7-- 8-- 9-----|
A |-----6-- 8-- 9-----|
E |-- 6-- 7--10-----|
```

E:6=Bb | E:7=B | E:10=D | A:6=Eb | A:8=F | A:9=Gb | D:7=A | D:8=Bb | D:9=B | G:7=D | G:8=Eb | G:10=F | B:6=F | B:7=Gb |  
B:10=A | e:6=Bb | e:7=B | e:10=D

### Position 3

Frets 9-14

```
e |-----10--11--13--|
B |-----10--11--12-----|
G |-----10--11--14-----|
D |-----9--12--13-----|
A |-----9--12--13-----|
E |--10--11--13-----|
```

E:10=D | E:11=Eb | E:13=F | A:9=Gb | A:12=A | A:13=Bb | D:9=B | D:12=D | D:13=Eb | G:10=F | G:11=Gb | G:14=A | B:10=A |  
B:11=Bb | B:12=B | e:10=D | e:11=Eb | e:13=F

### Position 4

Frets 10-15

```
e |-----10--11--13--|
B |-----10--11--12-----|
G |-----10--11--14-----|
D |-----12--13--15-----|
A |-----12--13--14-----|
E |--10--11--13-----|
```

E:10=D | E:11=Eb | E:13=F | A:12=A | A:13=Bb | A:14=B | D:12=D | D:13=Eb | D:15=F | G:10=F | G:11=Gb | G:14=A | B:10=A |  
 B:11=Bb | B:12=B | e:10=D | e:11=Eb | e:13=F

## Position 5

Frets 12-17

```

e |-----13--14--17--|
B |-----12--15--16-----|
G |-----14--15--16-----|
D |-----12--13--15-----|
A |-----12--13--14-----|
E |--13--14--17-----|

```

E:13=F | E:14=Gb | E:17=A | A:12=A | A:13=Bb | A:14=B | D:12=D | D:13=Eb | D:15=F | G:14=A | G:15=Bb | G:16=B | B:12=B |  
 B:15=D | B:16=Eb | e:13=F | e:14=Gb | e:17=A

## Companion Chords

Play these chords over your Bb Double Harmonic exercises:

	Bbm	Cdim	Ebm	Fm
e	--6--	--X--	--11--	--1--
B	--6--	--4--	--11--	--1--
G	--6--	--5--	--11--	--1--
D	--8--	--4--	--13--	--3--
A	--8--	--3--	--13--	--3--
E	--6--	--X--	--11--	--1--

Progression: **Bbm - Cdim - Ebm - Fm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----5-- 6-- 7--|
B |-----6-- 7--10-----|
G |-----7-- 8--10-----|
D |-----7-- 8-- 9-----|
A |-----5-- 6-- 8-----|
E |--5-- 6-- 7-----|

```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 7-- 6-- 5-----|
B |--10-- 7-- 6-----|
G |--10-- 8-- 7-----|
D |-- 9-- 8-- 7-----|
A |-- 8-- 6-- 5-----|
E |-- 7-- 6-- 5-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----5h6--| --6p5-----|
B |-----6h7-----| -----7p6-----|
G |-----7h8-----| -----8p7-----|
D |-----7h8-----| -----8p7-----|
A |-----5h6-----| -----6p5-----|
E |--5h6-----| -----6p5--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----7--|
D |-----7-----7--8--7--8--9--8--9-----|
A |-----5-----5--6--5--6--8--6--8-----8-----|
E |--5--6--7--6--7-----7-----|

e |-----5-----5--6--5--6--7--|
B |-----6-----6--7--6--7--10--7--10-----10-----|
G |-----7--8--7--8--10--8--10-----10-----|
D |--9-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----6--7--|
G |-----7-----7--8--10--8--10-----|
D |-----7--8--7--8--9-----9-----|
A |-----5-----5--6--8--6--8-----|
E |--5--6--7-----7-----|

e |-----5-----5--6--7-----|
B |--6--7--10-----10-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |-----5--6--7--|
B |-----6--7--10-----|
G |-----7--8--10-----|
D |-----7--8--9-----|
A |-----5--6--8-----|
E |--5--6--7-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U5--D6--U7--|
B |-----D6--U7--D10-----|
G |-----U7--D8--U10-----|
D |-----D7--U8--D9-----|
A |-----U5--D6--U8-----|
E |--D5--U6--D7-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->5-- 6-- 7--|
B |----->6-- 7--10-----|
G |----->7-- 8--10-----|
D |----->7-- 8-- 9-----|
A |----->5-- 6-- 8-----|
E |-->5-- 6-- 7-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----6-- 7--10--|
B |-----6-- 7--10-----|
G |-----7-- 8--10-----|
D |-----7-- 8-- 9-----|
A |-----6-- 8-- 9-----|
E |--6-- 7--10-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--10-- 7-- 6-----|
B |-----10-- 7-- 6-----|
G |-----10-- 8-- 7-----|
D |-----9-- 8-- 7-----|
A |-----9-- 8-- 6-----|
E |-----10-- 7-- 6--|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----6h7--| --7p6-----|
B |-----6h7-----| -----7p6-----|
G |-----7h8-----| -----8p7-----|
D |-----7h8-----| -----8p7-----|
A |-----6h8-----| -----8p6-----|
E |--6h7-----| -----7p6--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----7--|

```

```

D |-----7-----7-- 8-- 7-- 8-- 9-- 8-- 9-----|
A |-----6-----6-- 8-- 6-- 8-- 9-- 8-- 9-----9-----|
E |-- 6-- 7--10-- 7--10-----10-----|

e |-----6-----6-- 7-- 6-- 7--10--|
B |-----6-----6-- 7-- 6-- 7--10-- 7--10-----10-----|
G |-----7-- 8-- 7-- 8--10-- 8--10-----10-----|
D |-- 9-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----6-- 7--|
G |-----7-----7-- 8--10-- 8--10-----|
D |-----7-- 8-- 7-- 8-- 9-----9-----|
A |-----6-----6-- 8-- 9-- 8-- 9-----|
E |-- 6-- 7--10-----10-----|

e |-----6-----6-- 7--10-----|
B |-- 6-- 7--10-----10-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----6-- 7--10--|
B |-----6-- 7--10-----|
G |-----7-- 8--10-----|
D |-----7-- 8-- 9-----|
A |-----6-- 8-- 9-----|
E |-- 6-- 7--10-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U6--D7--U10--|
B |-----D6--U7--D10--|
G |-----U7--D8--U10--|
D |-----D7--U8--D9--|
A |-----U6--D8--U9--|
E |--D6--U7--D10--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->6-- 7--10--|
B |----->6-- 7--10-----|
G |----->7-- 8--10-----|
D |----->7-- 8-- 9-----|
A |----->6-- 8-- 9-----|
E |-->6-- 7--10-----|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----10--11--13--|
B |-----10--11--12-----|
G |-----10--11--14-----|
D |----- 9--12--13-----|
A |----- 9--12--13-----|
E |--10--11--13-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--13--11--10-----|
B |-----12--11--10-----|
G |-----14--11--10-----|
D |-----13--12-- 9-----|
A |-----13--12-- 9-----|
E |-----13--11--10--|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----10h11--| --11p10-----|
B |-----10h11-----| -----11p10-----|
G |-----10h11-----| -----11p10-----|
D |----- 9h12-----| -----12p9-----|
A |----- 9h12-----| -----12p9-----|
E |--10h11-----| -----11p10--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----10--|
D |----- 9----- 9--12-- 9--12--13--12--13-----|
A |----- 9----- 9--12-- 9--12--13--12--13-----13-----|
E |--10--11--13--11--13-----13-----|

e |-----10-----10--11--10--11--13--|
B |-----10-----10--11--10--11--12--11--12-----12-----|
G |-----10--11--10--11--14--11--14-----14-----|
D |--13-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----10--11--|
G |-----10-----10--11--14--11--14-----|
D |----- 9--12-- 9--12--13-----13-----|
A |----- 9----- 9--12--13--12--13-----|
```



```

E|--10--11--13-----13-----|
e|-----10-----10--11--13-----|
B|--10--11--12-----12-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|-----10--11--13--|
B|-----10--11--12-----|
G|-----10--11--14-----|
D|-----9--12--13-----|
A|-----9--12--13-----|
E|--10--11--13-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U10--D11--U13--|
B|-----D10--U11--D12-----|
G|-----U10--D11--U14-----|
D|-----D9--U12--D13-----|
A|-----U9--D12--U13-----|
E|--D10--U11--D13-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->10--11--13--|
B|----->10--11--12-----|
G|----->10--11--14-----|
D|----->9--12--13-----|
A|----->9--12--13-----|
E|-->10--11--13-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|-----10--11--13--|
B|-----10--11--12-----|
G|-----10--11--14-----|
D|-----12--13--15-----|
A|-----12--13--14-----|
E|--10--11--13-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --13--11--10-----|
B | -----12--11--10-----|
G | -----14--11--10-----|
D | -----15--13--12-----|
A | -----14--13--12-----|
E | -----13--11--10--|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----10h11--| --11p10-----|
B | -----10h11-----| -----11p10-----|
G | -----10h11-----| -----11p10-----|
D | -----12h13-----| -----13p12-----|
A | -----12h13-----| -----13p12-----|
E | --10h11-----| -----11p10--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----10--|
D | -----12-----12--13--12--13--14--13--14-----14-----|
A | -----12-----12--13--12--13--14--13--14-----14-----|
E | --10--11--13--11--13-----13-----|

e | -----10-----10--11--10--11--13--|
B | -----10-----10--11--10--11--12--11--12-----12-----|
G | -----10--11--10--11--14--11--14-----14-----|
D | --15-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----10--11--|
G | -----10-----10--11--14--11--14-----|
D | -----12--13--12--13--15-----15-----|
A | -----12-----12--13--14--13--14-----|
E | --10--11--13-----13-----|

e | -----10-----10--11--13-----|
B | --10--11--12-----12-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----10--11--13--|
B | -----10--11--12-----|
G | -----10--11--14-----|
D | -----12--13--15-----|
A | -----12--13--14-----|
E | --10--11--13-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e | -----U10--D11--U13--|
B | -----D10--U11--D12--|
G | -----U10--D11--U14--|
D | -----D12--U13--D15--|
A | -----U12--D13--U14--|
E | --D10--U11--D13-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e | ----->10--11--13--|
B | ----->10--11--12--|
G | ----->10--11--14--|
D | ----->12--13--15--|
A | ----->12--13--14--|
E | -->10--11--13-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e | -----13--14--17--|
B | -----12--15--16--|
G | -----14--15--16--|
D | -----12--13--15--|
A | -----12--13--14--|
E | --13--14--17-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e | --17--14--13-----|
B | -----16--15--12-----|
G | -----16--15--14-----|
D | -----15--13--12-----|
A | -----14--13--12-----|
E | -----17--14--13-----|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e | -----13h14--| --14p13-----|
B | -----12h15-----| -----15p12-----|
G | -----14h15-----| -----15p14-----|
D | -----12h13-----| -----13p12-----|
A | -----12h13-----| -----13p12-----|
E | --13h14-----| -----14p13--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----14--|
D |-----12-----12--13--12--13--15--13--15--|
A |-----12-----12--13--12--13--14--13--14-----14--|
E |--13--14--17--14--17-----17-----|

e |-----13-----13--14--13--14--17--|
B |-----12-----12--15--12--15--16--15--16-----16--|
G |-----14--15--14--15--16--15--16-----16--|
D |--15-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----12--15--|
G |-----14-----14--15--16--15--16-----|
D |-----12--13--12--13--15-----15--|
A |-----12-----12--13--14--13--14--|
E |--13--14--17-----17-----|

e |-----13-----13--14--17-----|
B |--12--15--16-----16-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----13--14--17--|
B |-----12--15--16-----|
G |-----14--15--16-----|
D |-----12--13--15-----|
A |-----12--13--14-----|
E |--13--14--17-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U13--D14--U17--|
B |-----D12--U15--D16--|
G |-----U14--D15--U16--|
D |-----D12--U13--D15--|
A |-----U12--D13--U14--|
E |--D13--U14--D17--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->13--14--17--|
B |----->12--15--16--|
G |----->14--15--16--|
D |----->12--13--15--|
A |----->12--13--14--|
E |-->13--14--17--|

```

# Eb Double Harmonic

Notes: Eb, E, G, Ab, Bb, B, D | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 10-15

```
e |-----10--11--12--|
B |-----11--12--15-----|
G |-----12--13--15-----|
D |-----12--13--14-----|
A |-----10--11--13-----|
E |--10--11--12-----|
```

E:10=D | E:11=Eb | E:12=E | A:10=G | A:11=Ab | A:13=Bb | D:12=D | D:13=Eb | D:14=E | G:12=G | G:13=Ab | G:15=Bb | B:11=Bb  
| B:12=B | B:15=D | e:10=D | e:11=Eb | e:12=E

### Position 2

Frets 11-15

```
e |-----11--12--15--|
B |-----11--12--15-----|
G |-----12--13--15-----|
D |-----12--13--14-----|
A |-----11--13--14-----|
E |--11--12--15-----|
```

E:11=Eb | E:12=E | E:15=G | A:11=Ab | A:13=Bb | A:14=B | D:12=D | D:13=Eb | D:14=E | G:12=G | G:13=Ab | G:15=Bb | B:11=Bb  
| B:12=B | B:15=D | e:11=Eb | e:12=E | e:15=G

### Position 3

Frets 14-19

```
e |-----15--16--18--|
B |-----15--16--17-----|
G |-----15--16--19-----|
D |-----14--17--18-----|
A |-----14--17--18-----|
E |--15--16--18-----|
```

E:15=G | E:16=Ab | E:18=Bb | A:14=B | A:17=D | A:18=Eb | D:14=E | D:17=G | D:18=Ab | G:15=Bb | G:16=B | G:19=D | B:15=D  
| B:16=Eb | B:17=E | e:15=G | e:16=Ab | e:18=Bb

### Position 4

Frets 15-20

```
e |-----15--16--18--|
B |-----15--16--17-----|
G |-----15--16--19-----|
D |-----17--18--20-----|
A |-----17--18--19-----|
E |--15--16--18-----|
```

E:15=G | E:16=Ab | E:18=Bb | A:17=D | A:18=Eb | A:19=E | D:17=G | D:18=Ab | D:20=Bb | G:15=Bb | G:16=B | G:19=D | B:15=D  
 | B:16=Eb | B:17=E | e:15=G | e:16=Ab | e:18=Bb

## Position 5

Frets 17-22

```
e |-----18--19--22--|
B |-----17--20--21-----|
G |-----19--20--21-----|
D |-----17--18--20-----|
A |-----17--18--19-----|
E |--18--19--22-----|
```

E:18=Bb | E:19=B | E:22=D | A:17=D | A:18=Eb | A:19=E | D:17=G | D:18=Ab | D:20=Bb | G:19=D | G:20=Eb | G:21=E | B:17=E  
 | B:20=G | B:21=Ab | e:18=Bb | e:19=B | e:22=D

## Companion Chords

Play these chords over your Eb Double Harmonic exercises:

	Ebm	Fdim	Abm	Bbm
e	--11--  --X--	--4--	--6--	
B	--11--  --9--	--4--	--6--	
G	--11--  --10--	--4--	--6--	
D	--13--  --9--	--6--	--8--	
A	--13--  --8--	--6--	--8--	
E	--11--  --X--	--4--	--6--	

Progression: **Ebm - Fdim - Abm - Bbm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----10--11--12--|
B |-----11--12--15-----|
G |-----12--13--15-----|
D |-----12--13--14-----|
A |-----10--11--13-----|
E |--10--11--12-----|
```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--12--11--10-----|
B |--15--12--11-----|
G |--15--13--12-----|
D |--14--13--12-----|
A |--13--11--10-----|
E |--12--11--10--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----10h11-- | --11p10-----|
B |-----11h12-----| -----12p11-----|
G |-----12h13-----| -----13p12-----|
D |-----12h13-----| -----13p12-----|
A |-----10h11-----| -----11p10-----|
E |--10h11-----| -----11p10--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----12--|
D |-----12-----12--13--12--13--14--13--14-----|
A |-----10-----10--11--10--11--13--11--13-----13-----|
E |--10--11--12--11--12-----12-----|

e |-----10-----10--11--10--11--12--|
B |-----11-----11--12--11--12--15--12--15-----15-----|
G |-----12--13--12--13--15--13--15-----15-----|
D |--14-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----11--12--|
G |-----12-----12--13--15--13--15-----|
D |-----12--13--12--13--14-----14-----|
A |-----10-----10--11--13--11--13-----|
E |--10--11--12-----12-----|

e |-----10-----10--11--12-----|
B |--11--12--15-----15-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |-----10--11--12--|
B |-----11--12--15-----|
G |-----12--13--15-----|
D |-----12--13--14-----|
A |-----10--11--13-----|
E |--10--11--12-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U10--D11--U12--|
B |-----D11--U12--D15-----|
G |-----U12--D13--U15-----|
D |-----D12--U13--D14-----|
A |-----U10--D11--U13-----|
E |--D10--U11--D12-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->10--11--12--|
B |----->11--12--15-----|
G |----->12--13--15-----|
D |----->12--13--14-----|
A |----->10--11--13-----|
E |-->10--11--12-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----11--12--15--|
B |-----11--12--15-----|
G |-----12--13--15-----|
D |-----12--13--14-----|
A |-----11--13--14-----|
E |--11--12--15-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--15--12--11-----|
B |-----15--12--11-----|
G |-----15--13--12-----|
D |-----14--13--12-----|
A |-----14--13--11-----|
E |-----15--12--11--|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----11h12--| --12p11-----|
B |-----11h12-----| -----12p11-----|
G |-----12h13-----| -----13p12-----|
D |-----12h13-----| -----13p12-----|
A |-----11h13-----| -----13p11-----|
E |--11h12-----| -----12p11--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----12--|

```



```

D |-----12-----12--13--12--13--14--13--14-----|
A |-----11-----11--13--11--13--14--13--14-----14-----|
E |--11--12--15--12--15-----15-----|

e |-----11-----11--12--11--12--15--|
B |-----11-----11--12--11--12--15--12--15-----15-----|
G |-----12--13--12--13--15--13--15-----15-----|
D |--14-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----11--12--|
G |-----12-----12--13--15--13--15-----|
D |-----12--13--12--13--14-----14-----|
A |-----11-----11--13--14--13--14-----|
E |--11--12--15-----15-----|

e |-----11-----11--12--15-----|
B |--11--12--15-----15-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----11--12--15--|
B |-----11--12--15-----|
G |-----12--13--15-----|
D |-----12--13--14-----|
A |-----11--13--14-----|
E |--11--12--15-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U11--D12--U15--|
B |-----D11--U12--D15--|
G |-----U12--D13--U15--|
D |-----D12--U13--D14--|
A |-----U11--D13--U14--|
E |--D11--U12--D15-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->11--12--15--|
B |----->11--12--15--|
G |----->12--13--15--|
D |----->12--13--14--|
A |----->11--13--14--|
E |-->11--12--15-----|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----15--16--18--|
B |-----15--16--17-----|
G |-----15--16--19-----|
D |-----14--17--18-----|
A |-----14--17--18-----|
E |--15--16--18-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--18--16--15-----|
B |-----17--16--15-----|
G |-----19--16--15-----|
D |-----18--17--14-----|
A |-----18--17--14-----|
E |-----18--16--15-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----15h16--| --16p15-----|
B |-----15h16-----| -----16p15-----|
G |-----15h16-----| -----16p15-----|
D |-----14h17-----| -----17p14-----|
A |-----14h17-----| -----17p14-----|
E |--15h16-----| -----16p15--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----15--|
D |-----14-----14--17--14--17--18--17--18-----|
A |-----14-----14--17--14--17--18--17--18-----18-----|
E |--15--16--18--16--18-----18-----|

e |-----15-----15--16--15--16--18--|
B |-----15-----15--16--15--16--17--16--17-----17-----|
G |-----15--16--15--16--19--16--19-----19-----|
D |--18-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----15--16--|
G |-----15-----15--16--19--16--19-----|
D |-----14--17--14--17--18-----18-----|
A |-----14-----14--17--18--17--18-----|
```

```

E|--15--16--18-----18-----|
e|-----15-----15--16--18-----|
B|--15--16--17-----17-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|-----15--16--18--|
B|-----15--16--17-----|
G|-----15--16--19-----|
D|-----14--17--18-----|
A|-----14--17--18-----|
E|--15--16--18-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U15--D16--U18--|
B|-----D15--U16--D17-----|
G|-----U15--D16--U19-----|
D|-----D14--U17--D18-----|
A|-----U14--D17--U18-----|
E|--D15--U16--D18-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->15--16--18--|
B|----->15--16--17-----|
G|----->15--16--19-----|
D|----->14--17--18-----|
A|----->14--17--18-----|
E|-->15--16--18-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|-----15--16--18--|
B|-----15--16--17-----|
G|-----15--16--19-----|
D|-----17--18--20-----|
A|-----17--18--19-----|
E|--15--16--18-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --18--16--15-----|
B | -----17--16--15-----|
G | -----19--16--15-----|
D | -----20--18--17-----|
A | -----19--18--17-----|
E | -----18--16--15-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----15h16-- | --16p15-----|
B | -----15h16-----| -----16p15-----|
G | -----15h16-----| -----16p15-----|
D | -----17h18-----| -----18p17-----|
A | -----17h18-----| -----18p17-----|
E | --15h16-----| -----16p15--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----15-----|
D | -----17-----17--18--17--18--20--18--20-----|
A | -----17-----17--18--17--18--19--18--19-----19-----|
E | --15--16--18--16--18-----18-----|

e | -----15-----15--16--15--16--17--16--17-----17-----|
B | -----15-----15--16--15--16--17--16--17-----17-----|
G | -----15--16--15--16--19--16--19-----19-----|
D | --20-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----15--16-----|
G | -----15-----15--16--19--16--19-----|
D | -----17--18--17--18--20-----20-----|
A | -----17-----17--18--19--18--19-----|
E | --15--16--18-----18-----|

e | -----15-----15--16--18-----|
B | --15--16--17-----17-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----15--16--18--|
B | -----15--16--17-----|
G | -----15--16--19-----|
D | -----17--18--20-----|
A | -----17--18--19-----|
E | --15--16--18-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U15--D16--U18--|
B |-----D15--U16--D17--|
G |-----U15--D16--U19--|
D |-----D17--U18--D20--|
A |-----U17--D18--U19--|
E |--D15--U16--D18--|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->15--16--18--|
B |----->15--16--17--|
G |----->15--16--19--|
D |----->17--18--20--|
A |----->17--18--19--|
E |-->15--16--18--|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----18--19--22--|
B |-----17--20--21--|
G |-----19--20--21--|
D |-----17--18--20--|
A |-----17--18--19--|
E |--18--19--22--|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--22--19--18--|
B |-----21--20--17--|
G |-----21--20--19--|
D |-----20--18--17--|
A |-----19--18--17--|
E |-----22--19--18--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----18h19--| --19p18-----|
B |-----17h20-----| -----20p17-----|
G |-----19h20-----| -----20p19-----|
D |-----17h18-----| -----18p17-----|
A |-----17h18-----| -----18p17-----|
E |--18h19-----| -----19p18--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----19--|
D |-----17-----17--18--17--18--20--18--20-----|
A |-----17-----17--18--17--18--19--18--19-----19-----|
E |--18--19--22--19--22-----22-----|

e |-----18-----18--19--18--19--22--|
B |-----17-----17--20--17--20--21--20--21-----21-----|
G |-----19--20--19--20--21--20--21-----21-----|
D |--20-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----17--20--|
G |-----19-----19--20--21--20--21-----|
D |-----17--18--17--18--20-----20-----|
A |-----17-----17--18--19--18--19-----|
E |--18--19--22-----22-----|

e |-----18-----18--19--22-----|
B |--17--20--21-----21-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----18--19--22--|
B |-----17--20--21-----|
G |-----19--20--21-----|
D |-----17--18--20-----|
A |-----17--18--19-----|
E |--18--19--22-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U18--D19--U22--|
B |-----D17--U20--D21--|
G |-----U19--D20--U21--|
D |-----D17--U18--D20--|
A |-----U17--D18--U19--|
E |--D18--U19--D22--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->18--19--22--|
B |----->17--20--21--|
G |----->19--20--21--|
D |----->17--18--20--|
A |----->17--18--19--|
E |-->18--19--22--|

```

# Ab Double Harmonic

Notes: Ab, A, C, Db, Eb, E, G | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 3-8

```
e |----- 3-- 4-- 5--|
B |----- 4-- 5-- 8-----|
G |----- 5-- 6-- 8-----|
D |----- 5-- 6-- 7-----|
A |----- 3-- 4-- 6-----|
E |-- 3-- 4-- 5-----|
```

E:3=G | E:4=Ab | E:5=A | A:3=C | A:4=Db | A:6=Eb | D:5=G | D:6=Ab | D:7=A | G:5=C | G:6=Db | G:8=Eb | B:4=Eb | B:5=E |  
B:8=G | e:3=G | e:4=Ab | e:5=A

### Position 2

Frets 4-8

```
e |----- 4-- 5-- 8--|
B |----- 4-- 5-- 8-----|
G |----- 5-- 6-- 8-----|
D |----- 5-- 6-- 7-----|
A |----- 4-- 6-- 7-----|
E |-- 4-- 5-- 8-----|
```

E:4=Ab | E:5=A | E:8=C | A:4=Db | A:6=Eb | A:7=E | D:5=G | D:6=Ab | D:7=A | G:5=C | G:6=Db | G:8=Eb | B:4=Eb | B:5=E |  
B:8=G | e:4=Ab | e:5=A | e:8=C

### Position 3

Frets 7-12

```
e |----- 8-- 9--11--|
B |----- 8-- 9--10-----|
G |----- 8-- 9--12-----|
D |----- 7--10--11-----|
A |----- 7--10--11-----|
E |-- 8-- 9--11-----|
```

E:8=C | E:9=Db | E:11=Eb | A:7=E | A:10=G | A:11=Ab | D:7=A | D:10=C | D:11=Db | G:8=Eb | G:9=E | G:12=G | B:8=G | B:9=Ab |  
B:10=A | e:8=C | e:9=Db | e:11=Eb

### Position 4

Frets 8-13

```
e |----- 8-- 9--11--|
B |----- 8-- 9--10-----|
G |----- 8-- 9--12-----|
D |-----10--11--13-----|
A |-----10--11--12-----|
E |-- 8-- 9--11-----|
```

E:8=C | E:9=Db | E:11=Eb | A:10=G | A:11=Ab | A:12=A | D:10=C | D:11=Db | D:13=Eb | G:8=Eb | G:9=E | G:12=G | B:8=G |  
 B:9=Ab | B:10=A | e:8=C | e:9=Db | e:11=Eb

## Position 5

Frets 10-15

```

e |-----11--12--15--|
B |-----10--13--14--|
G |-----12--13--14--|
D |-----10--11--13--|
A |-----10--11--12--|
E |-----11--12--15--|

```

E:11=Eb | E:12=E | E:15=G | A:10=G | A:11=Ab | A:12=A | D:10=C | D:11=Db | D:13=Eb | G:12=G | G:13=Ab | G:14=A | B:10=A  
 | B:13=C | B:14=Db | e:11=Eb | e:12=E | e:15=G

## Companion Chords

Play these chords over your Ab Double Harmonic exercises:

	Abm	Bbdim	Dbm	Ebm
e	--4--	--X--	--9--	--11--
B	--4--	--2--	--9--	--11--
G	--4--	--3--	--9--	--11--
D	--6--	--2--	--11--	--13--
A	--6--	--1--	--11--	--13--
E	--4--	--X--	--9--	--11--

Progression: **Abm - Bbdim - Dbm - Ebm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----3-- 4-- 5--|
B |-----4-- 5-- 8--|
G |-----5-- 6-- 8--|
D |-----5-- 6-- 7--|
A |-----3-- 4-- 6--|
E |-- 3-- 4-- 5-----|

```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 5-- 4-- 3-----|
B |-----8-- 5-- 4-----|
G |-----8-- 6-- 5-----|
D |-----7-- 6-- 5-----|
A |-----6-- 4-- 3-----|
E |-----5-- 4-- 3-----|

```



## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----3h4--| --4p3-----|
B |-----4h5-----| -----5p4-----|
G |-----5h6-----| -----6p5-----|
D |-----5h6-----| -----6p5-----|
A |-----3h4-----| -----4p3-----|
E |--3h4-----| -----4p3--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----5--|
D |-----5-----5--6--5--6--7--6--7-----|
A |-----3-----3--4--3--4--6--4--6-----6-----|
E |--3--4--5--4--5-----5-----|

e |-----3-----3--4--3--4--5--|
B |-----4-----4--5--4--5--8--5--8-----8-----|
G |-----5--6--5--6--8--6--8-----8-----|
D |--7-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----4--5--|
G |-----5-----5--6--8--6--8-----|
D |-----5--6--5--6--7-----7-----|
A |-----3-----3--4--6--4--6-----|
E |--3--4--5-----5-----|

e |-----3-----3--4--5-----|
B |--4--5--8-----8-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |-----3--4--5--|
B |-----4--5--8-----|
G |-----5--6--8-----|
D |-----5--6--7-----|
A |-----3--4--6-----|
E |--3--4--5-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U3--D4--U5--|
B |-----D4--U5--D8--|
G |-----U5--D6--U8--|
D |-----D5--U6--D7--|
A |-----U3--D4--U6--|
E |--D3--U4--D5-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->3-- 4-- 5--|
B |----->4-- 5-- 8--|
G |----->5-- 6-- 8--|
D |----->5-- 6-- 7--|
A |----->3-- 4-- 6--|
E |-->3-- 4-- 5-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----4-- 5-- 8--|
B |-----4-- 5-- 8--|
G |-----5-- 6-- 8--|
D |-----5-- 6-- 7--|
A |-----4-- 6-- 7--|
E |--4-- 5-- 8-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--8-- 5-- 4-----|
B |-----8-- 5-- 4-----|
G |-----8-- 6-- 5-----|
D |-----7-- 6-- 5-----|
A |-----7-- 6-- 4-----|
E |-----8-- 5-- 4-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----4h5--| --5p4-----|
B |-----4h5--| -----5p4-----|
G |-----5h6--| -----6p5-----|
D |-----5h6--| -----6p5-----|
A |-----4h6--| -----6p4-----|
E |--4h5-----| -----5p4--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----5--|

```

```

D |-----5-----5-- 6-- 5-- 6-- 7-- 6-- 7-----|
A |-----4-----4-- 6-- 4-- 6-- 7-- 6-- 7-----7-----|
E |-- 4-- 5-- 8-- 5-- 8-----8-----|

e |-----4-----4-- 5-- 4-- 5-- 8--|
B |-----4-----4-- 5-- 4-- 5-- 8-- 5-- 8-----8-----|
G |-----5-- 6-- 5-- 6-- 8-- 6-- 8-----8-----|
D |-- 7-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----4-- 5--|
G |-----5-----5-- 6-- 8-- 6-- 8-----|
D |-----5-- 6-- 5-- 6-- 7-----7-----|
A |-----4-----4-- 6-- 7-- 6-- 7-----|
E |-- 4-- 5-- 8-----8-----|

e |-----4-----4-- 5-- 8-----|
B |-- 4-- 5-- 8-----8-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----4-- 5-- 8--|
B |-----4-- 5-- 8-----|
G |-----5-- 6-- 8-----|
D |-----5-- 6-- 7-----|
A |-----4-- 6-- 7-----|
E |-- 4-- 5-- 8-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U4--D5--U8--|
B |-----D4--U5--D8--|
G |-----U5--D6--U8--|
D |-----D5--U6--D7--|
A |-----U4--D6--U7--|
E |--D4--U5--D8--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->4-- 5-- 8--|
B |----->4-- 5-- 8-----|
G |----->5-- 6-- 8-----|
D |----->5-- 6-- 7-----|
A |----->4-- 6-- 7-----|
E |-->4-- 5-- 8-----|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----8-- 9--11--|
B |-----8-- 9--10-----|
G |-----8-- 9--12-----|
D |-----7--10--11-----|
A |-----7--10--11-----|
E |-- 8-- 9--11-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--11-- 9-- 8-----|
B |-----10-- 9-- 8-----|
G |-----12-- 9-- 8-----|
D |-----11--10-- 7-----|
A |-----11--10-- 7-----|
E |-----11-- 9-- 8--|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----8h9--| --9p8-----|
B |-----8h9--| -----9p8-----|
G |-----8h9--| -----9p8-----|
D |-----7h10-----| -----10p7-----|
A |-----7h10-----| -----10p7-----|
E |--8h9-----| -----9p8--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----8--|
D |-----7-----7--10--7--10--11--10--11-----|
A |-----7-----7--10--7--10--11--10--11-----11-----|
E |-- 8-- 9--11-- 9--11-----11-----|

e |-----8-----8-- 9-- 8-- 9--11--|
B |-----8-----8-- 9-- 8-- 9--10-- 9--10-----10-----|
G |-----8-- 9-- 8-- 9--12-- 9--12-----12-----|
D |--11-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----8-- 9--|
G |-----8-----8-- 9--12-- 9--12-----|
D |-----7--10--7--10--11-----11-----|
A |-----7-----7--10--11--10--11-----|
```

```

E|-- 8-- 9--11-----11-----|
e|----- 8----- 8-- 9--11-----|
B|-- 8-- 9--10-----10-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|----- 8-- 9--11--|
B|----- 8-- 9--10-----|
G|----- 8-- 9--12-----|
D|----- 7--10--11-----|
A|----- 7--10--11-----|
E|-- 8-- 9--11-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U8--D9--U11--|
B|-----D8--U9--D10-----|
G|-----U8--D9--U12-----|
D|-----D7--U10--D11-----|
A|-----U7--D10--U11-----|
E|--D8--U9--D11-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->8-- 9--11--|
B|----->8-- 9--10-----|
G|----->8-- 9--12-----|
D|----->7--10--11-----|
A|----->7--10--11-----|
E|-->8-- 9--11-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|----- 8-- 9--11--|
B|----- 8-- 9--10-----|
G|----- 8-- 9--12-----|
D|-----10--11--13-----|
A|-----10--11--12-----|
E|-- 8-- 9--11-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --11-- 9-- 8-----|
B | -----10-- 9-- 8-----|
G | -----12-- 9-- 8-----|
D | -----13--11--10-----|
A | -----12--11--10-----|
E | -----11-- 9-- 8--|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----8h9-- | --9p8-----|
B | -----8h9-- | -----9p8-----|
G | -----8h9-- | -----9p8-----|
D | -----10h11-- | -----11p10-----|
A | -----10h11-- | -----11p10-----|
E | --8h9----- | -----9p8--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----8--|
D | -----10--11--10--11--13--11--13--|
A | -----10--11--12--11--12--12--|
E | -- 8-- 9--11-- 9--11--11-----|

e | -----8----- 8-- 9-- 8-- 9--11--|
B | -----8----- 8-- 9-- 8-- 9--10-- 9--10--10--|
G | -----8-- 9-- 8-- 9--12-- 9--12--12--|
D | --13-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----8-- 9--|
G | -----8----- 8-- 9--12-- 9--12--|
D | -----10--11--10--11--13--13--|
A | -----10--11--12--11--12--|
E | -- 8-- 9--11--11-----|

e | -----8----- 8-- 9--11--|
B | -- 8-- 9--10--10-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----8-- 9--11--|
B | -----8-- 9--10--|
G | -----8-- 9--12--|
D | -----10--11--13--|
A | -----10--11--12--|
E | -- 8-- 9--11-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U8--D9--U11--|
B |-----D8--U9--D10-----|
G |-----U8--D9--U12-----|
D |-----D10--U11--D13-----|
A |-----U10--D11--U12-----|
E |--D8--U9--D11-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->8-- 9--11--|
B |----->8-- 9--10-----|
G |----->8-- 9--12-----|
D |----->10--11--13-----|
A |----->10--11--12-----|
E |-->8-- 9--11-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----11--12--15--|
B |-----10--13--14-----|
G |-----12--13--14-----|
D |-----10--11--13-----|
A |-----10--11--12-----|
E |--11--12--15-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--15--12--11-----|
B |-----14--13--10-----|
G |-----14--13--12-----|
D |-----13--11--10-----|
A |-----12--11--10-----|
E |-----15--12--11--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----11h12--| --12p11-----|
B |-----10h13-----| -----13p10-----|
G |-----12h13-----| -----13p12-----|
D |-----10h11-----| -----11p10-----|
A |-----10h11-----| -----11p10-----|
E |--11h12-----| -----12p11--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----12--|
D |-----10-----10--11--10--11--13--11--13--|
A |-----10-----10--11--10--11--12--11--12-----12-----|
E |--11--12--15--12--15-----15-----|

e |-----11-----11--12--11--12--15--|
B |-----10-----10--13--10--13--14--13--14-----14-----|
G |-----12--13--12--13--14--13--14-----14-----|
D |--13-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----10--13--|
G |-----12-----12--13--14--13--14-----|
D |-----10--11--10--11--13-----13-----|
A |-----10-----10--11--12--11--12-----|
E |--11--12--15-----15-----|

e |-----11-----11--12--15-----|
B |--10--13--14-----14-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----11--12--15--|
B |-----10--13--14-----|
G |-----12--13--14-----|
D |-----10--11--13-----|
A |-----10--11--12-----|
E |--11--12--15-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U11--D12--U15--|
B |-----D10--U13--D14--|
G |-----U12--D13--U14--|
D |-----D10--U11--D13--|
A |-----U10--D11--U12--|
E |--D11--U12--D15--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->11--12--15--|
B |----->10--13--14--|
G |----->12--13--14--|
D |----->10--11--13--|
A |----->10--11--12--|
E |-->11--12--15--|

```



# Db Double Harmonic

Notes: Db, D, F, Gb, Ab, A, C | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 8-13

```
e |-----8-- 9--10--|
B |-----9--10--13-----|
G |-----10--11--13-----|
D |-----10--11--12-----|
A |-----8-- 9--11-----|
E |-- 8-- 9--10-----|
```

E:8=C | E:9=Db | E:10=D | A:8=F | A:9=Gb | A:11=Ab | D:10=C | D:11=Db | D:12=D | G:10=F | G:11=Gb | G:13=Ab | B:9=Ab |  
B:10=A | B:13=C | e:8=C | e:9=Db | e:10=D

### Position 2

Frets 9-13

```
e |-----9--10--13--|
B |-----9--10--13-----|
G |-----10--11--13-----|
D |-----10--11--12-----|
A |-----9--11--12-----|
E |-- 9--10--13-----|
```

E:9=Db | E:10=D | E:13=F | A:9=Gb | A:11=Ab | A:12=A | D:10=C | D:11=Db | D:12=D | G:10=F | G:11=Gb | G:13=Ab | B:9=Ab |  
B:10=A | B:13=C | e:9=Db | e:10=D | e:13=F

### Position 3

Frets 12-17

```
e |-----13--14--16--|
B |-----13--14--15-----|
G |-----13--14--17-----|
D |-----12--15--16-----|
A |-----12--15--16-----|
E |--13--14--16-----|
```

E:13=F | E:14=Gb | E:16=Ab | A:12=A | A:15=C | A:16=Db | D:12=D | D:15=F | D:16=Gb | G:13=Ab | G:14=A | G:17=C | B:13=C |  
B:14=Db | B:15=D | e:13=F | e:14=Gb | e:16=Ab

### Position 4

Frets 13-18

```
e |-----13--14--16--|
B |-----13--14--15-----|
G |-----13--14--17-----|
D |-----15--16--18-----|
A |-----15--16--17-----|
E |--13--14--16-----|
```

E:13=F | E:14=Gb | E:16=Ab | A:15=C | A:16=Db | A:17=D | D:15=F | D:16=Gb | D:18=Ab | G:13=Ab | G:14=A | G:17=C | B:13=C  
 | B:14=Db | B:15=D | e:13=F | e:14=Gb | e:16=Ab

## Position 5

Frets 15-20

```

e |-----16--17--20--|
B |-----15--18--19--|
G |-----17--18--19--|
D |-----15--16--18--|
A |-----15--16--17--|
E |--16--17--20-----|
  
```

E:16=Ab | E:17=A | E:20=C | A:15=C | A:16=Db | A:17=D | D:15=F | D:16=Gb | D:18=Ab | G:17=C | G:18=Db | G:19=D | B:15=D  
 | B:18=F | B:19=Gb | e:16=Ab | e:17=A | e:20=C

## Companion Chords

Play these chords over your Db Double Harmonic exercises:

	Dbm	Ebdim	Gbm	Abm
e	--9--	--X--	--2--	--4--
B	--9--	--7--	--2--	--4--
G	--9--	--8--	--2--	--4--
D	--11--	--7--	--4--	--6--
A	--11--	--6--	--4--	--6--
E	--9--	--X--	--2--	--4--

Progression: **Dbm - Ebdim - Gbm - Abm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----8-- 9--10--|
B |-----9--10--13--|
G |-----10--11--13--|
D |-----10--11--12--|
A |-----8-- 9--11--|
E |--8-- 9--10-----|
  
```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--10-- 9-- 8-----|
B |-----13--10-- 9-----|
G |-----13--11--10-----|
D |-----12--11--10-----|
A |-----11-- 9-- 8-----|
E |-----10-- 9-- 8--|
  
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----8h9--| --9p8-----|
B |-----9h10-----| -----10p9-----|
G |-----10h11-----| -----11p10-----|
D |-----10h11-----| -----11p10-----|
A |-----8h9-----| -----9p8-----|
E |--8h9-----| -----9p8--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----10--|
D |-----10-----10--11--10--11--12--11--12-----|
A |----- 8----- 8-- 9-- 8-- 9--11-- 9--11-----11-----|
E |-- 8-- 9--10-- 9--10-----10-----|

e |----- 8----- 8-- 9-- 8-- 9--10--|
B |----- 9----- 9--10-- 9--10--13--10--13-----13-----|
G |-----10--11--10--11--13--11--13-----13-----|
D |--12-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |----- 9--10--|
G |-----10-----10--11--13--11--13-----|
D |-----10--11--10--11--12-----12-----|
A |----- 8----- 8-- 9--11-- 9--11-----|
E |-- 8-- 9--10-----10-----|

e |----- 8----- 8-- 9--10-----|
B |-- 9--10--13-----13-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |----- 8-- 9--10--|
B |----- 9--10--13-----|
G |-----10--11--13-----|
D |-----10--11--12-----|
A |----- 8-- 9--11-----|
E |-- 8-- 9--10-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U8--D9--U10--|
B |-----D9--U10--D13-----|
G |-----U10--D11--U13-----|
D |-----D10--U11--D12-----|
A |-----U8--D9--U11-----|
E |--D8--U9--D10-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->8-- 9--10--|
B |----->9--10--13-----|
G |----->10--11--13-----|
D |----->10--11--12-----|
A |----->8-- 9--11-----|
E |-->8-- 9--10-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |-----9--10--13--|
B |-----9--10--13-----|
G |-----10--11--13-----|
D |-----10--11--12-----|
A |-----9--11--12-----|
E |--9--10--13-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |--13--10-- 9-----|
B |-----13--10-- 9-----|
G |-----13--11--10-----|
D |-----12--11--10-----|
A |-----12--11-- 9-----|
E |-----13--10-- 9--|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----9h10--| --10p9-----|
B |-----9h10-----| -----10p9-----|
G |-----10h11-----| -----11p10-----|
D |-----10h11-----| -----11p10-----|
A |-----9h11-----| -----11p9-----|
E |--9h10-----| -----10p9--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----10--|

```

```

D |-----10-----10--11--10--11--12--11--12-----|
A |----- 9----- 9--11-- 9--11--12--11--12-----12-----|
E |-- 9--10--13--10--13-----13-----|

e |----- 9----- 9--10-- 9--10--13--|
B |----- 9----- 9--10-- 9--10--13--10--13-----13-----|
G |-----10--11--10--11--13--11--13-----13-----|
D |--12-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |----- 9--10--|
G |-----10-----10--11--13--11--13-----|
D |-----10--11--10--11--12-----12-----|
A |----- 9----- 9--11--12--11--12-----|
E |-- 9--10--13-----13-----|

e |----- 9----- 9--10--13-----|
B |-- 9--10--13-----13-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |----- 9--10--13--|
B |----- 9--10--13-----|
G |-----10--11--13-----|
D |-----10--11--12-----|
A |----- 9--11--12-----|
E |-- 9--10--13-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U9--D10--U13--|
B |-----D9--U10--D13--|
G |-----U10--D11--U13--|
D |-----D10--U11--D12--|
A |-----U9--D11--U12--|
E |--D9--U10--D13--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->9--10--13--|
B |----->9--10--13--|
G |----->10--11--13--|
D |----->10--11--12--|
A |----->9--11--12--|
E |-->9--10--13-----|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----13--14--16--|
B |-----13--14--15-----|
G |-----13--14--17-----|
D |-----12--15--16-----|
A |-----12--15--16-----|
E |--13--14--16-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--16--14--13-----|
B |-----15--14--13-----|
G |-----17--14--13-----|
D |-----16--15--12-----|
A |-----16--15--12-----|
E |-----16--14--13-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----13h14--| --14p13-----|
B |-----13h14-----| -----14p13-----|
G |-----13h14-----| -----14p13-----|
D |-----12h15-----| -----15p12-----|
A |-----12h15-----| -----15p12-----|
E |--13h14-----| -----14p13--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----13--|
D |-----12-----12--15--12--15--16--15--16-----|
A |-----12-----12--15--12--15--16--15--16-----16-----|
E |--13--14--16--14--16-----16-----|

e |-----13-----13--14--13--14--16--|
B |-----13-----13--14--13--14--15--14--15-----15-----|
G |-----13--14--13--14--17--14--17-----17-----|
D |--16-----|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----13--14--|
G |-----13-----13--14--17--14--17-----|
D |-----12--15--12--15--16-----16-----|
A |-----12-----12--15--16--15--16-----|
```

```

E|--13--14--16-----16-----|
e|-----13-----13--14--16-----|
B|--13--14--15-----15-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

### String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|-----13--14--16--|
B|-----13--14--15-----|
G|-----13--14--17-----|
D|-----12--15--16-----|
A|-----12--15--16-----|
E|--13--14--16-----|

```

### Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U13--D14--U16--|
B|-----D13--U14--D15-----|
G|-----U13--D14--U17-----|
D|-----D12--U15--D16-----|
A|-----U12--D15--U16-----|
E|--D13--U14--D16-----|

```

### Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->13--14--16--|
B|----->13--14--15-----|
G|----->13--14--17-----|
D|----->12--15--16-----|
A|----->12--15--16-----|
E|-->13--14--16-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|-----13--14--16--|
B|-----13--14--15-----|
G|-----13--14--17-----|
D|-----15--16--18-----|
A|-----15--16--17-----|
E|--13--14--16-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | --16--14--13-----|
B | -----15--14--13-----|
G | -----17--14--13-----|
D | -----18--16--15-----|
A | -----17--16--15-----|
E | -----16--14--13-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----13h14-- | --14p13-----|
B | -----13h14-----| -----14p13-----|
G | -----13h14-----| -----14p13-----|
D | -----15h16-----| -----16p15-----|
A | -----15h16-----| -----16p15-----|
E | --13h14-----| -----14p13--|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | -----13--|
D | -----15-----15--16--15--16--18--16--18-----|
A | -----15-----15--16--15--16--17--16--17-----17-----|
E | --13--14--16--14--16-----16-----|

e | -----13-----13--14--13--14--16--|
B | -----13-----13--14--13--14--15--14--15-----15-----|
G | -----13--14--13--14--17--14--17-----17-----|
D | --18-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | -----13--14--|
G | -----13-----13--14--17--14--17-----|
D | -----15--16--15--16--18-----18-----|
A | -----15-----15--16--17--16--17-----|
E | --13--14--16-----16-----|

e | -----13-----13--14--16-----|
B | --13--14--15-----15-----|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | -----13--14--16--|
B | -----13--14--15-----|
G | -----13--14--17-----|
D | -----15--16--18-----|
A | -----15--16--17-----|
E | --13--14--16-----|

```



## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e | -----U13--D14--U16--|
B | -----D13--U14--D15--|
G | -----U13--D14--U17--|
D | -----D15--U16--D18--|
A | -----U15--D16--U17--|
E | --D13--U14--D16-----|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e | ----->13--14--16--|
B | ----->13--14--15--|
G | ----->13--14--17--|
D | ----->15--16--18--|
A | ----->15--16--17--|
E | -->13--14--16-----|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e | -----16--17--20--|
B | -----15--18--19--|
G | -----17--18--19--|
D | -----15--16--18--|
A | -----15--16--17--|
E | --16--17--20-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e | --20--17--16-----|
B | -----19--18--15--|
G | -----19--18--17--|
D | -----18--16--15--|
A | -----17--16--15--|
E | -----20--17--16--|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e | -----16h17--| --17p16-----|
B | -----15h18-----| -----18p15-----|
G | -----17h18-----| -----18p17-----|
D | -----15h16-----| -----16p15-----|
A | -----15h16-----| -----16p15-----|
E | --16h17-----| -----17p16--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |-----17--|
D |-----15-----15--16--15--16--18--16--18--|
A |-----15-----15--16--15--16--17--16--17-----17-----|
E |--16--17--20--17--20-----20-----|

e |-----16-----16--17--16--17--20--|
B |-----15-----15--18--15--18--19--18--19-----19-----|
G |-----17--18--17--18--19--18--19-----19-----|
D |--18-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----15--18--|
G |-----17-----17--18--19--18--19-----|
D |-----15--16--15--16--18-----18-----|
A |-----15-----15--16--17--16--17-----|
E |--16--17--20-----20-----|

e |-----16-----16--17--20-----|
B |--15--18--19-----19-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----16--17--20--|
B |-----15--18--19-----|
G |-----17--18--19-----|
D |-----15--16--18-----|
A |-----15--16--17-----|
E |--16--17--20-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U16--D17--U20--|
B |-----D15--U18--D19--|
G |-----U17--D18--U19--|
D |-----D15--U16--D18--|
A |-----U15--D16--U17--|
E |--D16--U17--D20--|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->16--17--20--|
B |----->15--18--19--|
G |----->17--18--19--|
D |----->15--16--18--|
A |----->15--16--17--|
E |-->16--17--20--|

```

# F Double Harmonic

Notes: F, Gb, A, Bb, C, Db, E | Degrees: 1, b2, 3, 4, 5, b6, 7

## Scale Positions

### Position 1

Frets 0-5

```
e |----- 0-- 1-- 2--|
B |----- 1-- 2-- 5-----|
G |----- 2-- 3-- 5-----|
D |----- 2-- 3-- 4-----|
A |----- 0-- 1-- 3-----|
E |-- 0-- 1-- 2-----|
```

E:0=E | E:1=F | E:2=Gb | A:0=A | A:1=Bb | A:3=C | D:2=E | D:3=F | D:4=Gb | G:2=A | G:3=Bb | G:5=C | B:1=C | B:2=Db |  
B:5=E | e:0=E | e:1=F | e:2=Gb

### Position 2

Frets 1-5

```
e |----- 1-- 2-- 5--|
B |----- 1-- 2-- 5-----|
G |----- 2-- 3-- 5-----|
D |----- 2-- 3-- 4-----|
A |----- 1-- 3-- 4-----|
E |-- 1-- 2-- 5-----|
```

E:1=F | E:2=Gb | E:5=A | A:1=Bb | A:3=C | A:4=Db | D:2=E | D:3=F | D:4=Gb | G:2=A | G:3=Bb | G:5=C | B:1=C | B:2=Db |  
B:5=E | e:1=F | e:2=Gb | e:5=A

### Position 3

Frets 4-9

```
e |----- 5-- 6-- 8--|
B |----- 5-- 6-- 7-----|
G |----- 5-- 6-- 9-----|
D |----- 4-- 7-- 8-----|
A |----- 4-- 7-- 8-----|
E |-- 5-- 6-- 8-----|
```

E:5=A | E:6=Bb | E:8=C | A:4=Db | A:7=E | A:8=F | D:4=Gb | D:7=A | D:8=Bb | G:5=C | G:6=Db | G:9=E | B:5=E | B:6=F |  
B:7=Gb | e:5=A | e:6=Bb | e:8=C

### Position 4

Frets 5-10

```
e |----- 5-- 6-- 8--|
B |----- 5-- 6-- 7-----|
G |----- 5-- 6-- 9-----|
D |----- 7-- 8--10-----|
A |----- 7-- 8-- 9-----|
E |-- 5-- 6-- 8-----|
```

E:5=A | E:6=Bb | E:8=C | A:7=E | A:8=F | A:9=Gb | D:7=A | D:8=Bb | D:10=C | G:5=C | G:6=Db | G:9=E | B:5=E | B:6=F |  
 B:7=Gb | e:5=A | e:6=Bb | e:8=C

## Position 5

Frets 7-12

```

e |----- 8-- 9--12--|
B |----- 7--10--11-----|
G |----- 9--10--11-----|
D |----- 7-- 8--10-----|
A |----- 7-- 8-- 9-----|
E |-- 8-- 9--12-----|

```

E:8=C | E:9=Db | E:12=E | A:7=E | A:8=F | A:9=Gb | D:7=A | D:8=Bb | D:10=C | G:9=E | G:10=F | G:11=Gb | B:7=Gb | B:10=A  
 | B:11=Bb | e:8=C | e:9=Db | e:12=E

## Companion Chords

Play these chords over your F Double Harmonic exercises:

	Fm	Gdim	Bbm	Cm
e	--1--	--X--	--6--	--8--
B	--1--	--11--	--6--	--8--
G	--1--	--12--	--6--	--8--
D	--3--	--11--	--8--	--10--
A	--3--	--10--	--8--	--10--
E	--1--	--X--	--6--	--8--

Progression: **Fm - Gdim - Bbm - Cm**

---

## Exercises

### Position 1 Exercises

#### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |----- 0-- 1-- 2--|
B |----- 1-- 2-- 5-----|
G |----- 2-- 3-- 5-----|
D |----- 2-- 3-- 4-----|
A |----- 0-- 1-- 3-----|
E |-- 0-- 1-- 2-----|

```

#### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 2-- 1-- 0-----|
B |----- 5-- 2-- 1-----|
G |----- 5-- 3-- 2-----|
D |----- 4-- 3-- 2-----|
A |----- 3-- 1-- 0-----|
E |----- 2-- 1-- 0--|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----0h1--| --1p0-----|
B |-----1h2-----| -----2p1-----|
G |-----2h3-----| -----3p2-----|
D |-----2h3-----| -----3p2-----|
A |-----0h1-----| -----1p0-----|
E |--0h1-----| -----1p0--|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |----- 2--|
D |----- 2----- 2-- 3-- 2-- 3-- 4-- 3-- 4-----|
A |----- 0----- 0-- 1-- 0-- 1-- 3-- 1-- 3----- 3-----|
E |-- 0-- 1-- 2-- 1-- 2----- 2-----|

e |----- 0----- 0-- 1-- 0-- 1-- 2--|
B |----- 1----- 1-- 2-- 1-- 2-- 5-- 2-- 5----- 5-----|
G |----- 2-- 3-- 2-- 3-- 5-- 3-- 5----- 5-----|
D |-- 4-----|
A |-----|
E |-----|
```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |----- 1-- 2--|
G |----- 2----- 2-- 3-- 5-- 3-- 5-----|
D |----- 2-- 3-- 2-- 3-- 4----- 4-----|
A |----- 0----- 0-- 1-- 3-- 1-- 3-----|
E |-- 0-- 1-- 2----- 2-----|

e |----- 0----- 0-- 1-- 2-----|
B |-- 1-- 2-- 5----- 5-----|
G |-----|
D |-----|
A |-----|
E |-----|
```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```
e |----- 0-- 1-- 2--|
B |----- 1-- 2-- 5-----|
G |----- 2-- 3-- 5-----|
D |----- 2-- 3-- 4-----|
A |----- 0-- 1-- 3-----|
E |-- 0-- 1-- 2-----|
```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U0--D1--U2--|
B |-----D1--U2--D5-----|
G |-----U2--D3--U5-----|
D |-----D2--U3--D4-----|
A |-----U0--D1--U3-----|
E |--D0--U1--D2-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->0-- 1-- 2--|
B |----->1-- 2-- 5-----|
G |----->2-- 3-- 5-----|
D |----->2-- 3-- 4-----|
A |----->0-- 1-- 3-----|
E |-->0-- 1-- 2-----|

```

## Position 2 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e |----- 1-- 2-- 5--|
B |----- 1-- 2-- 5-----|
G |----- 2-- 3-- 5-----|
D |----- 2-- 3-- 4-----|
A |----- 1-- 3-- 4-----|
E |-- 1-- 2-- 5-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e |-- 5-- 2-- 1-----|
B |----- 5-- 2-- 1-----|
G |----- 5-- 3-- 2-----|
D |----- 4-- 3-- 2-----|
A |----- 4-- 3-- 1-----|
E |----- 5-- 2-- 1--|

```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e |-----1h2--| --2p1-----|
B |-----1h2-----| -----2p1-----|
G |-----2h3-----| -----3p2-----|
D |-----2h3-----| -----3p2-----|
A |-----1h3-----| -----3p1-----|
E |--1h2-----| -----2p1--|

```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |----- 2--|

```

```

D |-----2-----2-- 3-- 2-- 3-- 4-- 3-- 4-----|
A |-----1-----1-- 3-- 1-- 3-- 4-- 3-- 4-----4-----|
E |-- 1-- 2-- 5-- 2-- 5-----5-----|

e |-----1-----1-- 2-- 1-- 2-- 5--|
B |-----1-----1-- 2-- 1-- 2-- 5-- 2-- 5-----5-----|
G |-----2-- 3-- 2-- 3-- 5-- 3-- 5-----5-----|
D |-- 4-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |-----1-- 2--|
G |-----2-----2-- 3-- 5-- 3-- 5-----|
D |-----2-- 3-- 2-- 3-- 4-----4-----|
A |-----1-----1-- 3-- 4-- 3-- 4-----|
E |-- 1-- 2-- 5-----5-----|

e |-----1-----1-- 2-- 5-----|
B |-- 1-- 2-- 5-----5-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |-----1-- 2-- 5--|
B |-----1-- 2-- 5-----|
G |-----2-- 3-- 5-----|
D |-----2-- 3-- 4-----|
A |-----1-- 3-- 4-----|
E |-- 1-- 2-- 5-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U1--D2--U5--|
B |-----D1--U2--D5--|
G |-----U2--D3--U5--|
D |-----D2--U3--D4--|
A |-----U1--D3--U4--|
E |--D1--U2--D5-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->1-- 2-- 5--|
B |----->1-- 2-- 5-----|
G |----->2-- 3-- 5-----|
D |----->2-- 3-- 4-----|
A |----->1-- 3-- 4-----|
E |-->1-- 2-- 5-----|

```

## Position 3 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----5-- 6-- 8--|
B |-----5-- 6-- 7-----|
G |-----5-- 6-- 9-----|
D |-----4-- 7-- 8-----|
A |-----4-- 7-- 8-----|
E |-- 5-- 6-- 8-----|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |-- 8-- 6-- 5-----|
B |-----7-- 6-- 5-----|
G |-----9-- 6-- 5-----|
D |-----8-- 7-- 4-----|
A |-----8-- 7-- 4-----|
E |-----8-- 6-- 5-----|
```

### Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----5h6--| --6p5-----|
B |-----5h6--| -----6p5-----|
G |-----5h6--| -----6p5-----|
D |-----4h7--| -----7p4-----|
A |-----4h7--| -----7p4-----|
E |--5h6-----| -----6p5--|
```

### Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```
e |-----|
B |-----|
G |-----5--|
D |-----4-- 4-- 7-- 4-- 7-- 8-- 7-- 8--|
A |-----4-- 4-- 7-- 4-- 7-- 8-- 7-- 8--|
E |-- 5-- 6-- 8-- 6-- 8-- 8--|

e |-----5-----5-- 6-- 5-- 6-- 8--|
B |-----5-----5-- 6-- 5-- 6-- 7-- 6-- 7-- 7--|
G |-----5-- 6-- 5-- 6-- 9-- 6-- 9-- 9--|
D |-- 8--|
A |-----|
E |-----|
```

### Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```
e |-----|
B |-----5-- 6--|
G |-----5-- 6-- 9-- 6-- 9--|
D |-----4-- 7-- 4-- 7-- 8-- 8--|
A |-----4-- 7-- 8-- 7-- 8--|
```



```

E|-- 5-- 6-- 8----- 8-----|
e|----- 5----- 5-- 6-- 8-----|
B|-- 5-- 6-- 7----- 7-----|
G|-----|
D|-----|
A|-----|
E|-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e|----- 5-- 6-- 8--|
B|----- 5-- 6-- 7-----|
G|----- 5-- 6-- 9-----|
D|----- 4-- 7-- 8-----|
A|----- 4-- 7-- 8-----|
E|-- 5-- 6-- 8-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e|-----U5--D6--U8--|
B|-----D5--U6--D7-----|
G|-----U5--D6--U9-----|
D|-----D4--U7--D8-----|
A|-----U4--D7--U8-----|
E|--D5--U6--D8-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e|----->5-- 6-- 8--|
B|----->5-- 6-- 7-----|
G|----->5-- 6-- 9-----|
D|----->4-- 7-- 8-----|
A|----->4-- 7-- 8-----|
E|-->5-- 6-- 8-----|

```

## Position 4 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```

e|----- 5-- 6-- 8--|
B|----- 5-- 6-- 7-----|
G|----- 5-- 6-- 9-----|
D|----- 7-- 8--10-----|
A|----- 7-- 8-- 9-----|
E|-- 5-- 6-- 8-----|

```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```

e | -- 8-- 6-- 5-----|
B | ----- 7-- 6-- 5-----|
G | ----- 9-- 6-- 5-----|
D | -----10-- 8-- 7-----|
A | ----- 9-- 8-- 7-----|
E | ----- 8-- 6-- 5-----|

```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```

e | -----5h6-- | --6p5-----|
B | -----5h6-- | -----6p5-----|
G | -----5h6-- | -----6p5-----|
D | -----7h8-- | -----8p7-----|
A | -----7h8-- | -----8p7-----|
E | -----5h6-- | -----6p5-----|

```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e | -----|
B | -----|
G | ----- 5--|
D | ----- 7-- 8-- 7-- 8-- 10-- 8--10--|
A | ----- 7-- 8-- 9-- 8-- 9-- 9--|
E | -- 5-- 6-- 8-- 6-- 8-- 8--|

e | ----- 5-- 6-- 5-- 6-- 8--|
B | ----- 5-- 6-- 5-- 6-- 7-- 6-- 7--|
G | ----- 5-- 6-- 5-- 6-- 9-- 6-- 9--|
D | --10-----|
A | -----|
E | -----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e | -----|
B | ----- 5-- 6--|
G | ----- 5-- 6-- 9-- 6-- 9--|
D | ----- 7-- 8-- 7-- 8--10--10--|
A | ----- 7-- 8-- 9-- 8-- 9--|
E | -- 5-- 6-- 8-- 8--|

e | ----- 5-- 6-- 8--|
B | -- 5-- 6-- 7-- 7--|
G | -----|
D | -----|
A | -----|
E | -----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e | ----- 5-- 6-- 8--|
B | ----- 5-- 6-- 7--|
G | ----- 5-- 6-- 9--|
D | ----- 7-- 8--10--|
A | ----- 7-- 8-- 9--|
E | -- 5-- 6-- 8--|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```
e |-----U5--D6--U8--|
B |-----D5--U6--D7--|
G |-----U5--D6--U9--|
D |-----D7--U8--D10--|
A |-----U7--D8--U9--|
E |--D5--U6--D8--|
```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```
e |----->5-- 6-- 8--|
B |----->5-- 6-- 7--|
G |----->5-- 6-- 9--|
D |----->7-- 8--10--|
A |----->7-- 8-- 9--|
E |-->5-- 6-- 8--|
```

## Position 5 Exercises

### Ascending Run

*Build fretboard familiarity by running the full position from low to high.*

```
e |-----8-- 9--12--|
B |-----7--10--11--|
G |-----9--10--11--|
D |-----7-- 8--10--|
A |-----7-- 8-- 9--|
E |--8-- 9--12--|
```

### Descending Run

*Reverse the pattern to develop equal fluency in both directions.*

```
e |--12-- 9-- 8-----|
B |--11--10-- 7-----|
G |--11--10-- 9-----|
D |--10-- 8-- 7-----|
A |--9-- 8-- 7-----|
E |--12-- 9-- 8-----|
```

## Legato (h=hammer-on, p=pull-off)

*Develop hammer-on and pull-off technique for smooth, connected phrasing.*

```
e |-----8h9--| --9p8-----|
B |-----7h10-----| -----10p7-----|
G |-----9h10-----| -----10p9-----|
D |-----7h8-----| -----8p7-----|
A |-----7h8-----| -----8p7-----|
E |--8h9-----| -----9p8-----|
```

## Sequence in 3s

*Train your ear and fingers to break out of linear scale runs into musical patterns.*

```

e |-----|
B |-----|
G |----- 9--|
D |----- 7----- 7-- 8-- 7-- 8-- 9-- 8-- 9----- 9-----|
A |----- 7----- 7-- 8-- 7-- 8-- 9-- 8-- 9----- 9-----|
E |-- 8-- 9--12-- 9--12-----12-----|

e |----- 8----- 8-- 9-- 8-- 9--12--|
B |----- 7----- 7--10-- 7--10--11--10--11-----11-----|
G |----- 9--10-- 9--10--11--10--11-----11-----|
D |--10-----|
A |-----|
E |-----|

```

## Sequence in 4s

*Expand sequencing to four-note groups for more complex melodic vocabulary.*

```

e |-----|
B |----- 7--10--|
G |----- 9----- 9--10--11--10--11-----|
D |----- 7-- 8-- 7-- 8--10-----10-----|
A |----- 7----- 7-- 8-- 9-- 8-- 9-----|
E |-- 8-- 9--12-----12-----|

e |----- 8----- 8-- 9--12-----|
B |-- 7--10--11-----11-----|
G |-----|
D |-----|
A |-----|
E |-----|

```

## String Skipping (E-G, A-B, D-e)

*Build accuracy jumping across wide intervals – essential for modern lead playing.*

```

e |----- 8-- 9--12--|
B |----- 7--10--11-----|
G |----- 9--10--11-----|
D |----- 7-- 8--10-----|
A |----- 7-- 8-- 9-----|
E |-- 8-- 9--12-----|

```

## Alternate Picking (D=down, U=up)

*Develop consistent down-up pick attack and rhythmic precision at any tempo.*

```

e |-----U8--D9--U12--|
B |-----D7--U10--D11--|
G |-----U9--D10--U11--|
D |-----D7--U8--D10--|
A |-----U7--D8--U9--|
E |--D8--U9--D12-----|

```

## Triplet Grouping (> = accent)

*Internalize triplet grouping to add rhythmic variety and swing feel to your lines.*

```

e |----->8-- 9--12--|
B |----->7--10--11--|
G |----->9--10--11--|
D |----->7-- 8--10--|
A |----->7-- 8-- 9--|
E |-->8-- 9--12-----|

```