

# **UltimateScale**

## User Manual

BGSMM

# UltimateScale?

**U**timateScale is a music scale learning assistant. Are you confused and tired of difficult terms and complex scale structures such as Mixolydian and Locrian? With UltimateScale, you can learn by looking at a composition in staff score, directly touching a synth keyboard key on the app, listening by ear, and moving freely in key. In addition, you can learn the scale efficiently through a quiz using the Leitner System, which is famous for learning by memorization. In addition, you can upload and share comments of various scales and your own learning know-how through the Internet Archive.

# Scales

The screenshot shows a mobile application interface titled "Scales". At the top, there is a status bar with the time "9:46" and signal strength indicators. Below the status bar, the title "Scale List" is centered above a search bar with the placeholder "Search". To the right of the search bar are "Edit" and "Add" buttons. The main content area displays a list of scales, each with a name, a priority rating (5 stars), and a small icon. The scales listed are: Acoustic scale, Altered scale (Super Locrian scale), Augmented scale, Bebop dominant scale, Double harmonic scale, Enigmatic scale, Flamenco mode, Gypsy scale, Half diminished scale, Harmonic major scale, Hirajoshi scale, and Hungarian major scale. At the bottom of the screen, there is a navigation bar with four icons: "Scales" (musical notes), "Quiz" (game controller), "Archive" (document), and "Settings" (gear).

| Scale Name                           | Priority (Star Rating) |
|--------------------------------------|------------------------|
| Acoustic scale                       | ★★★★★                  |
| Altered scale<br>Super Locrian scale | ★★★★★                  |
| Augmented scale                      | ★★★★★                  |
| Bebop dominant scale                 | ★★★★★                  |
| Double harmonic scale                | ★★★★★                  |
| Enigmatic scale                      | ★★★★★                  |
| Flamenco mode                        | ★★★★★                  |
| Gypsy scale                          | ★★★★★                  |
| Half diminished scale                | ★★★★★                  |
| Harmonic major scale                 | ★★★★★                  |
| Hirajoshi scale                      | ★★★★★                  |
| Hungarian major scale                | ★★★★★                  |

- Add: You can add new scale information.
- Edit: You can delete the scale or change the sort order. (Changing the sort order is possible only when the sort criterion is My Priority)
- Sort: It is possible to sort by name order, star order order, etc.
- Click a cell in the list to go to its details.
- Priority(star rating) can be set according to the degree of importance. Swipe left or right to set the priority from 1 to 5.

# Scales > Detail Page

The screenshot shows the 'Altered scale' detail page. At the top, there's a navigation bar with 'Scale List' (with a back arrow), the title 'Altered scale', and a blue 'Update' button. Below this is a section titled 'INFORMATION' with the following details:

|                         |                        |
|-------------------------|------------------------|
| Name                    | Altered scale          |
| Alias                   | Super Locrian scale    |
| Degrees (Asc.)          | 1 ♭2 ♭3 ♭4 ♭5 ♭6 ♭7    |
| Integer Notation (Asc.) | (0, 1, 3, 4, 6, 8, 10) |
| Pattern (Asc.)          | 1 2 1 2 2 2 2          |
| Priority                | ★★★☆☆☆                 |

Below the information section are two buttons: 'Ascending' (highlighted in grey) and 'Descending'. Underneath these buttons is a musical score for the 'C Altered scale' (升 C altered scale). The score shows the notes: C, D♭, E♭, F♭, G♭, A♭, B♭, C. A red box highlights this section.

Below the score, a message in Korean reads: '악보가 표시됩니다.' (The score is displayed).

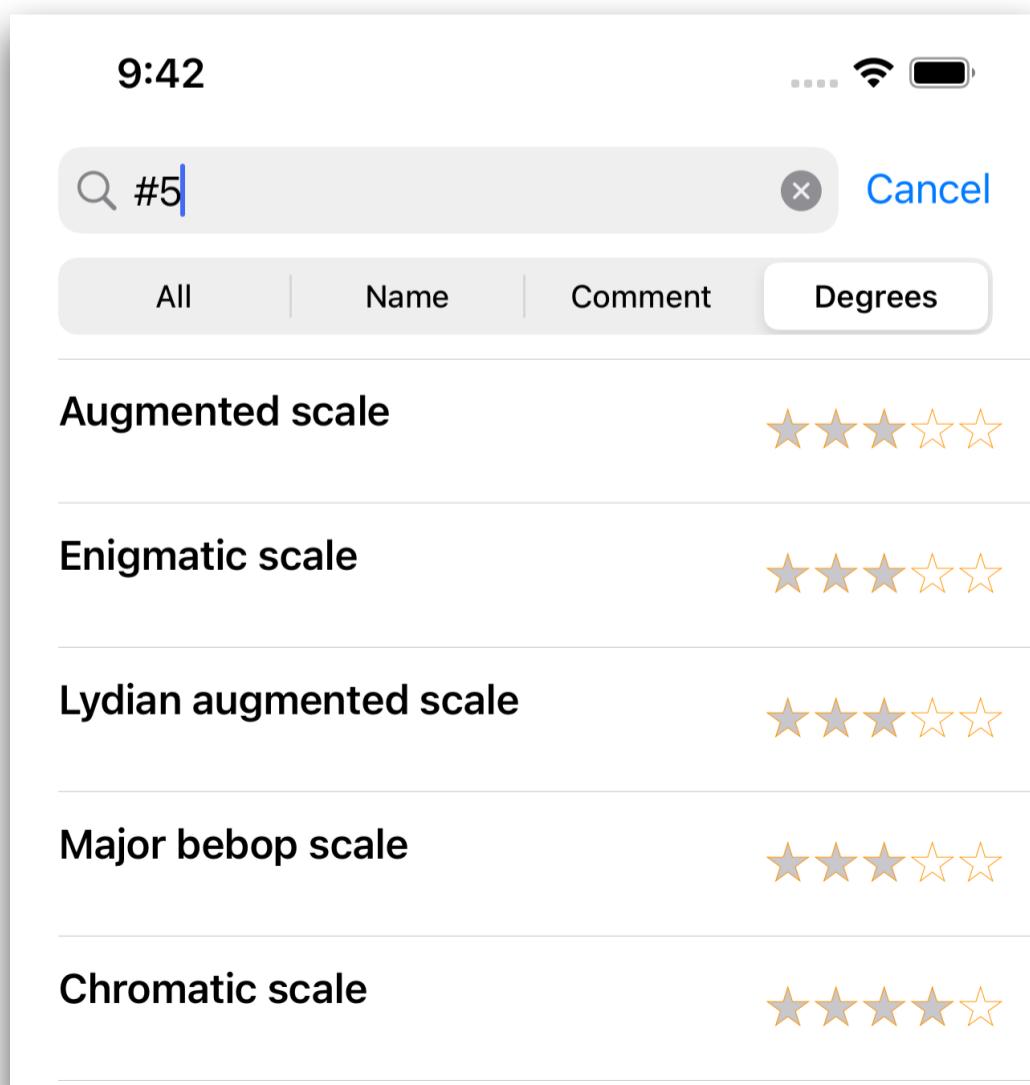
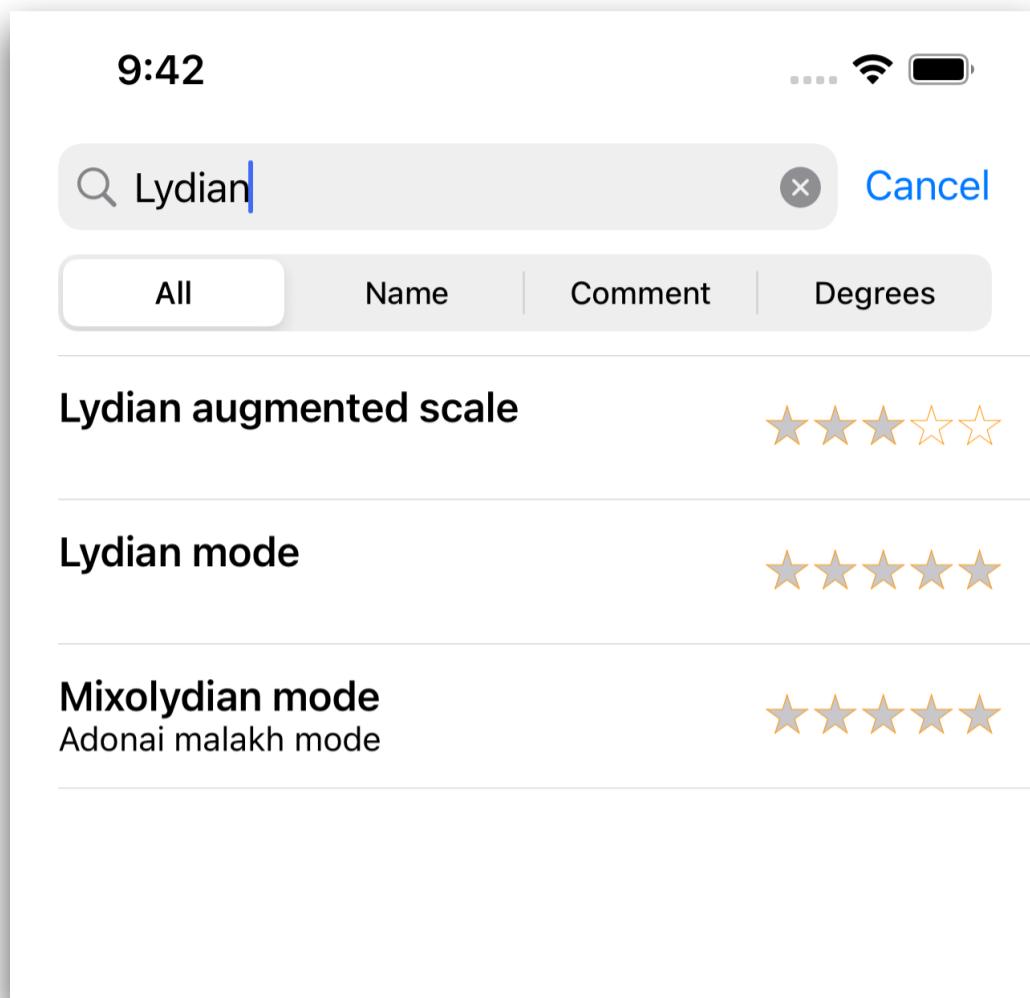
At the bottom of the screen is a control panel with the following options:

- Enharmonic Mode: Scale's default (button highlighted in orange)
- Transpose in: C (button highlighted in orange)
- Tempo (BPM): 120
- Octave: Octave up (+) and Octave down (-) buttons

Below the control panel is a piano-roll style interface showing note triggers on specific keys. The bottom navigation bar includes icons for Scales (with a music note icon), Quiz, Archive, and Settings.

- Update: Update existing scale information.
- See detailed information about the scale in the information screen.
- Touch the arrow button marked with a red box to get a wider view of the information screen.
- You can learn about scale by looking at the score yourself.
- Supports display in ascending and descending order. If the constituent notes in ascending order and descending order are different, it is reflected and displayed.  
(Example: Melodic Minor, etc.)
- It is possible to change the display method of Enharmonic.
- You can hear the notes directly. Click the play button.  
**[new]** Long press the play button to play all notes of the scale simultaneously.
- You can change transposition, tempo, and octave when playing a sound on the panel.
- When you touch a key, the corresponding note is played.

# Scales > Search



- You can search by various conditions.
- All: Search by combining the three categories below.
- Name: the name of the scale
- Comment: Search by comment
- Degrees: Search by Degrees.
- Writing the constituent sounds from C (Do) to B (Si) in Roman numerals is called degrees notation.
- The screen below is an example of frequency search, and if you search for #5, it will search for and display the scale containing #5 among the scales.

**NEW!!**

# Scales > Compare

Multiple scales can be compared and viewed.

**Back** Bebop dominant scale **Compare** **Update**

**INFOMATION**

|                         |                            |
|-------------------------|----------------------------|
| Name                    | Bebop dominant scale       |
| Alias                   |                            |
| Degrees (Asc.)          | 1 2 3 4 5 6 ♭7 7           |
| Integer Notation (Asc.) | (0, 2, 4, 5, 7, 9, 10, 11) |
| Pattern (Asc.)          | 2 2 1 2 2 1 1 1            |
| Priority                | ★★★☆☆                      |

**Back** Sort **Scale List**

- Acoustic scale ★★★★★
- Altered scale Super Locrian scale ✓
- Augmented scale ★★★★★
- Bebop dominant scale** ★★★★★ ✓
- Double harmonic scale ★★★★★
- Enigmatic scale ★★★★★
- Flamenco mode ★★★★★
- Gypsy scale ✓

1. Tap the [Compare] button on the scale details screen.

2. After selecting up to 7 scales to compare, tap the [Back] button.

**Scale List** Altered scale **Compare**

**INFOMATION**

|                         |                        |
|-------------------------|------------------------|
| Name                    | Altered scale          |
| Alias                   | Super Locrian scale    |
| Degrees (Asc.)          | 1 ♭2 ♭3 ♭4 ♭5 ♭6 ♭7    |
| Integer Notation (Asc.) | (0, 1, 3, 4, 6, 8, 10) |
| Ascending               | Descending             |

*C Altered scale*

Enharmonic Mode Scale's default Transpose in C Tempo (BPM) 120 Oct

**Piano Roll**

**Scale List** Gypsy scale **Compare**

**INFOMATION**

|                         |                        |
|-------------------------|------------------------|
| Name                    | Gypsy scale            |
| Alias                   |                        |
| Degrees (Asc.)          | 1 2 ♭3 ♯4 5 ♭6 ♭7      |
| Integer Notation (Asc.) | (0, 2, 3, 6, 7, 8, 10) |
| Ascending               | Descending             |

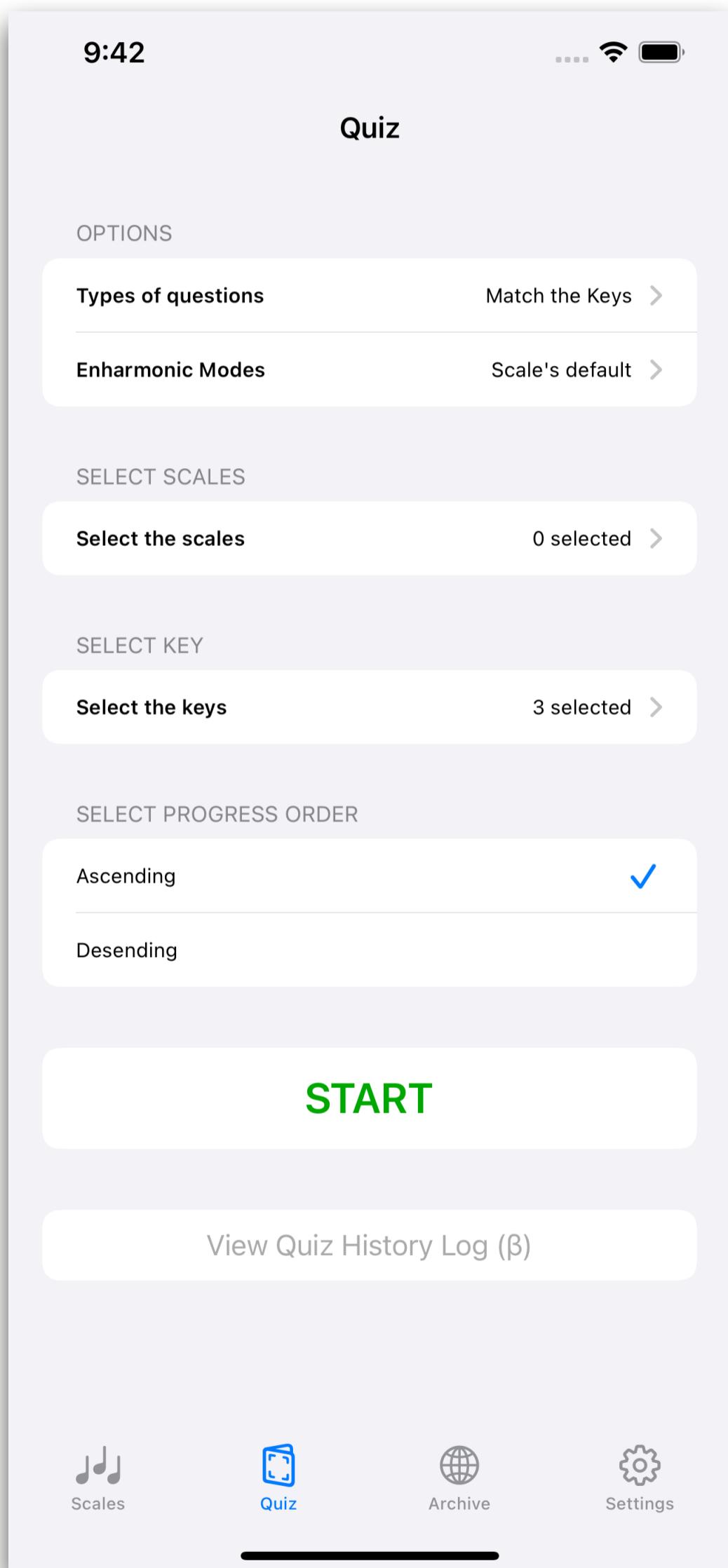
*C Gypsy scale*

Enharmonic Mode Scale's default Transpose in C Tempo (BPM) 120 Oct

**Piano Roll**

3. A new tab bar appears at the top of the app screen. Press the desired scale to switch directly to the corresponding scale information.

# Quiz



- Choosing a Quiz Type
  - In Match the Keys, given the name of a scale as a question, you have to match the note composition of that scale.
  - Guess the Name is a type of flashcard quiz where given a sheet of music, you look at the sheet (or listen the sounds) and guess what the name of the scale is.
- You can choose which scale, key, ascending or descending order the quiz will be targeted for.
- Effective learning is possible by introducing the famous memorization method, the Leitner System.

# Quiz > Match the Keys

The screenshot shows a mobile application interface for a music quiz. At the top, the title 'E Enigmatic scale' is displayed with a blue upward arrow icon. Below the title, there is a status bar showing 'Cycle: 0 | Quest of Cycle: 1 | Not Studying Yet: 9 | In Studying: 0 | Finished: 0'. The main content area is titled 'E Enigmatic scale' and 'Ascending'. A large input field at the bottom contains a question mark emoji (❓). To the left of the input field, there is a musical staff with a treble clef and a single note. Below the staff, three buttons are visible: 'On Edit', 'Answer', and 'Together'. At the bottom of the screen, there is a piano keyboard graphic with several black keys. On the far right of the piano keys, there are 'Submit' and 'Reset' buttons. At the very bottom, there are navigation icons for 'Scales' (with a musical notes icon), 'Quiz' (with a blue square icon), 'Archive' (with a globe icon), and 'Settings' (with a gear icon).

- The question of 'what kind of notes the E Enigmatic Scale is made of' appeared.
- Tap the keyboard at the bottom of the screen to add notes.
- Press Reset to initialize the input value, and press the Backspace button to erase one note.
- When you have added all notes, click the Submit button to submit your answer.
- Tap the keyboard at the bottom of the screen to add notes.
- Press Reset to initialize the input value, and press the Backspace button to erase one note.
- When you have added all notes, click the Submit button to submit your answer.

# Quiz > Match the Keys

9:43

.... ⚡ 🔋

Back E Enigmatic scale ⬆

Cycle: 0 | Quest of Cycle: 1 | Not Studying Yet: 9 | In Studying: 0 | Finished: 0

E Enigmatic scale  
Ascending

Failed

E Enigmatic scale

✗ You

✓ Answer

On Edit Answer Together

Next >> Reset ✕

Scales Quiz Archive Settings

- If the answer to the question is incorrect, the answer label is displayed in red.
- On Edit: The note of the sheet music I am writing is played.
- Answer: The note of the correct score will be played.
- Together: Plays both scores simultaneously. You can hear the sound and know which part is wrong.
- Click the Next button to move on to the next question.

# Quiz > Match the Keys

9:45

.... ⚡ 🔋

Back E Ionian mode ⬆

Cycle: 0 | Quest of Cycle: 1 | Not Studying Yet: 3 | In Studying: 0 | Finished: 0

E Ionian mode  
Ascending

Success

E Ionian mode

You

Answer

On Edit Answer Together

Next >> Reset ✕

- If the answer is correct, the answer label is displayed in green.
- If you get a lot of questions right, the number of repetitions will be reduced, but if you do not get it right, the questions will be repeated according to the question cycle of the Leitner system.

# Quiz > Guess the Name

When given the score of the scale in flashcard format, think about the name, then tap the card to flip it over and check the correct answer. Click Got it if you got it right, or Study Again if you're wrong.

9:45

Back Guess the Name

Cycle: 0 | Quest of Cycle: 1 | Not Studying Yet: 3 | In Studying: 0 | Finished: 0

???

1 2 3 4 5 6 7 🤔

▶

**Got it** **Study Again**

Scales Quiz Archive Settings

9:45

Back Guess the Name

Cycle: 0 | Quest of Cycle: 1 | Not Studying Yet: 3 | In Studying: 0 | Finished: 0

E Ionian mode

▶

**Got it** **Study Again**

Scales Quiz Archive Settings

# Archive > Upload

After selecting a scale saved on your local device, review the information through preview and upload it by clicking the Submit button. Editing is not possible in the upload menu.

9:45

Download Submit

## Dorian Scale

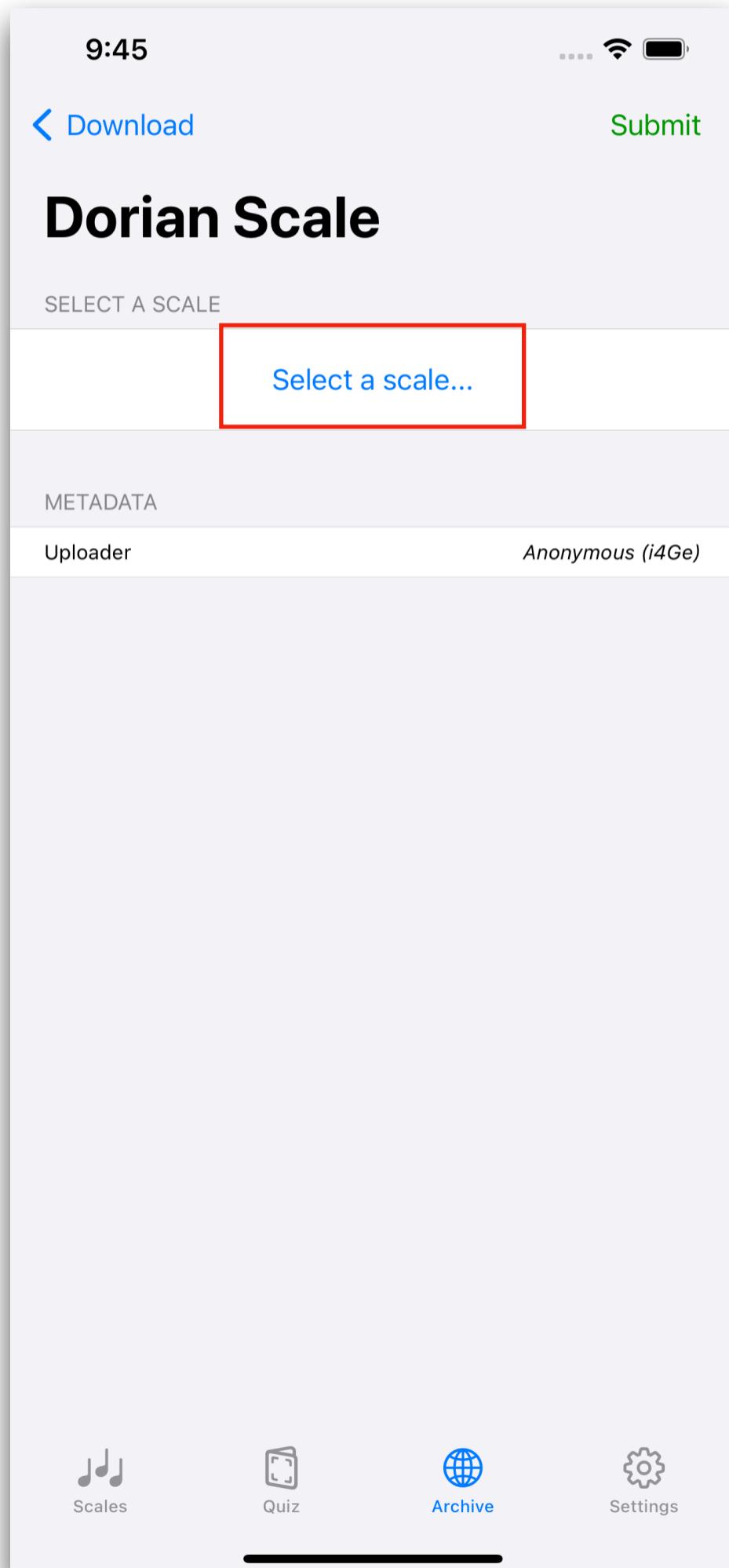
SELECT A SCALE

Select a scale...

METADATA

Uploader Anonymous (i4Ge)

Scales Quiz Archive Settings



9:45

Download Enigmatic scale Submit

### SELECT A SCALE

Select a scale...

### PREVIEW

Ascending Descending

C Enigmatic scale 



This scale has the same ascending and descending order.

### INFORMATION

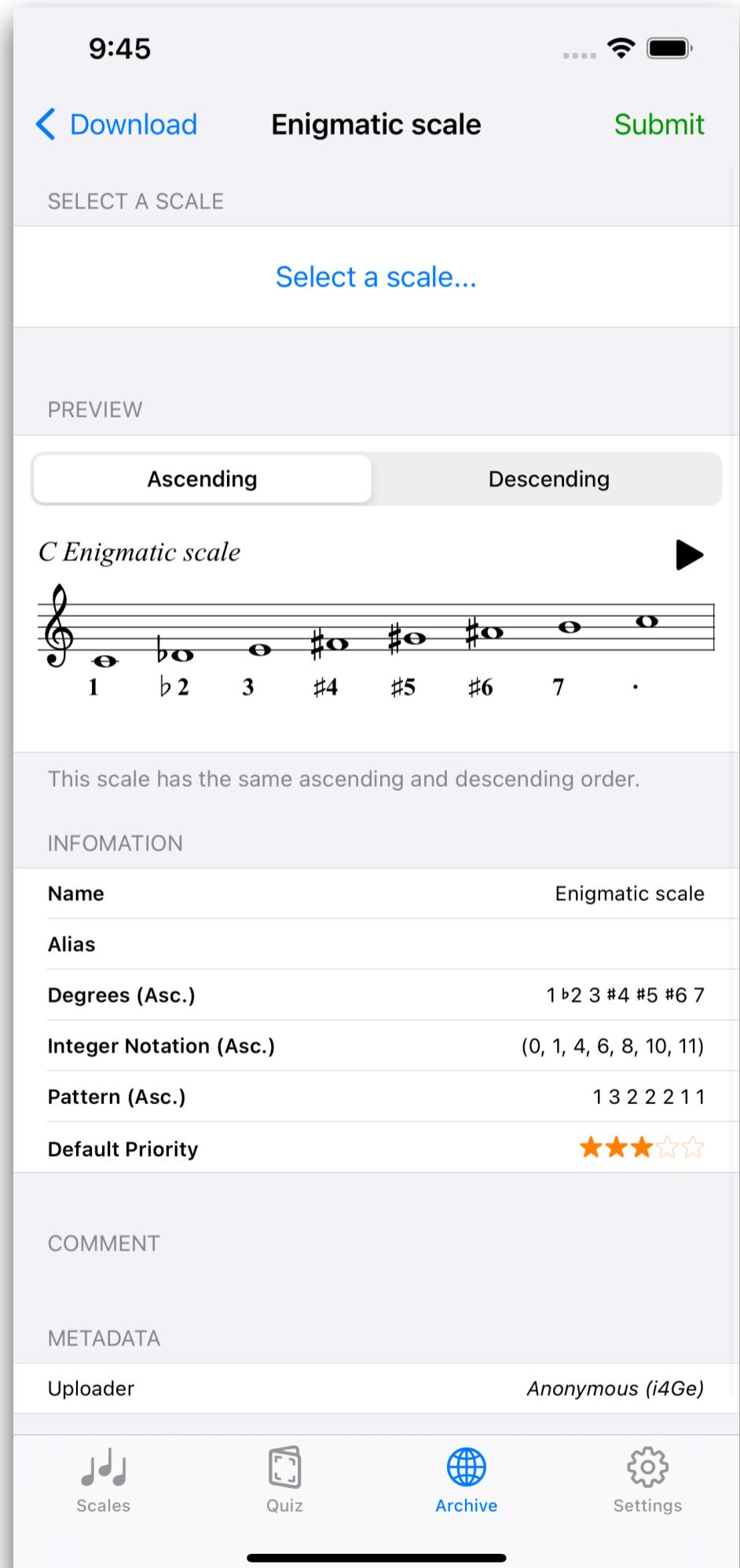
|                         |   |
|-------------------------|---|
| Name                    | Enigmatic scale   |
| Alias                   |   |
| Degrees (Asc.)          | 1 b2 3 #4 #5 #6 7   |
| Integer Notation (Asc.) | (0, 1, 4, 6, 8, 10, 11)   |
| Pattern (Asc.)          | 1 3 2 2 2 1 1   |
| Default Priority        |  |

### COMMENT

### METADATA

Uploader Anonymous (i4Ge)

Scales Quiz Archive Settings



# Settings

You can change the instrument to be used when playing sheet music and playing keyboard touch sounds. Over 100 instruments are supported. You can use the Custom menu to display the enharmonic mode in sheet music.

< Back    Select a Playback Instrument

Piano

- 1: Acoustic Grand Piano
- 2: Bright Acoustic Piano
- 3: Electric Grand Piano
- 4: Honky-tonk Piano
- 5: Electric Piano 1
- 6: Electric Piano 2
- 7: Harpsichord
- 8: Clavinet

Chromatic Percussion

- 9: Celesta
- 10: Glockenspiel
- 11: Music Box
- 12: Vibraphone
- 13: Marimba
- 14: Xylophone

Scales    Quiz    Archive    Settings

< Settings    Enharmonic Notations

HOW TO USE

1. Click the note you want to change in the 'Note List', which is notated and sorted by MIDI number notation. (C4 = 0, divided in semitones)
2. Select one of the available lists of Enharmonic notes.

NOTE LIST

AVAILABLE ENHARMONIC NOTES

Scales    Quiz    Archive    Settings

# Thank You

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Blog: <http://yoonbumtae.com> (Korean)

GitHub repo: <https://github.com/ayaysir/MusicScale>

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