



# Rubato Piano Drills Creator

## Introduction

**Rubato Piano Drills Creator (RPDC)** is a companion app designed to work seamlessly with **Rubato Piano Drills (RPD)**. It allows users to create simple chord sequences that can be used within the RPD app for practice and performance. These sequences can be based on material from your favorite songbook; however, RPDC and RPD focus primarily on core musical elements and do not support all types of notation or expressive markings. For consistency and ease of use, both apps emphasize the basic notation styles illustrated in Figure 2.

Rubato Piano Drills Creator Drill Text: Drill

| Index | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------|---|---|---|---|---|---|---|---|
| Type  |   |   |   |   |   |   |   |   |
| Name  |   |   |   |   |   |   |   |   |
| C     |   |   |   |   |   |   |   |   |
| B     |   |   |   |   |   |   |   |   |
| A     |   |   |   |   |   |   |   |   |
| G     |   |   |   |   |   |   |   |   |
| F     |   |   |   |   |   |   |   |   |
| E     |   |   |   |   |   |   |   |   |
| D     |   |   |   |   |   |   |   |   |
| C     |   |   |   |   |   |   |   |   |
| B     |   |   |   |   |   |   |   |   |
| A     |   |   |   |   |   |   |   |   |
| G     |   |   |   |   |   |   |   |   |
| F     |   |   |   |   |   |   |   |   |
| E     |   |   |   |   |   |   |   |   |
| D     |   |   |   |   |   |   |   |   |

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Save

Load

Add

Insert

Remove

Clear

Reset

Terms & Privacy

Figure 1: Rubato Piano Drills Creator



Figure 2: Musical Notations

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### 1. Index

Index is a column that can be a Barline, Space, or Chord. There is no limit to the number of columns; however, the more columns that are added may take up more memory and may cause the device to have a sluggish response. Tapping the index number will allow the user to clear the entire column.

### 2. Type

There are three types that can be selected. When a Barline or a Space is selected, the entire column is disabled. When Chord is selected, up to 10 notes are allowed to be added.

### 3. Name

Name is a text field that can be used to give a meaning to the note or the chord in the column.

### 4. Time-Signature

A time-signature can be selected for the chord sequence. Selecting a time-signature does not affect the table in any way.

## 5. Save

Save allows users to store their chord sequence for future use. When saving, it's recommended to choose a meaningful file name and save the file in the **Documents** folder for easy access. Any empty columns in the sequence will be automatically omitted during the save process. Note that the app does not validate the number of vertical notes per column - it's up to the user to ensure that each column contains the intended number of notes.

## 6. Load

Load allows users to open a previously saved chord sequence. Additional files can be loaded even when a sequence already exists in the table; however, caution is advised, as existing notes or chords may be overwritten by the newly loaded data. If any column in the file contains more than 10 notes, the app will display an error and prevent the file from loading.

## 7. Add

Add allows the user to add a column at the end of the table.

## 8. Insert

Insert allows the user to insert a column within the table. The inserted column will be placed to the left of the index number entered.

## 9. Remove

Remove allows the user to delete a column. The remaining columns will be adjusted.

## 10. Clear

Clear allows the user to clear the entire table.

## 11. Reset

Reset allows the user to clear the entire table and set it to its original launch state of 12 columns.

## 12.Drill Text

The Drill Text area allows the user to enter a description for the chord drill. This description will be displayed in the Rubato Piano Drill app above the keyboard.

## 13.Table Vertical Header

The vertical header consist of the letters of the grand staff. There are separate middle “C” rows for the right hand and for the left hand shown as C-RH and C-LH. It is advised not to select both at the same time. Tapping a letter in the vertical header will allow the user to clear the entire row.

## 14.Table Cells

When Chord is selected as the Type, the user is allowed to select a note from the pop-up box. The entire table is scrollable up/down and left/right.

## 15.Example Chord

Figure 3 shows an example of adding a Barline and CmMaj7 chord.

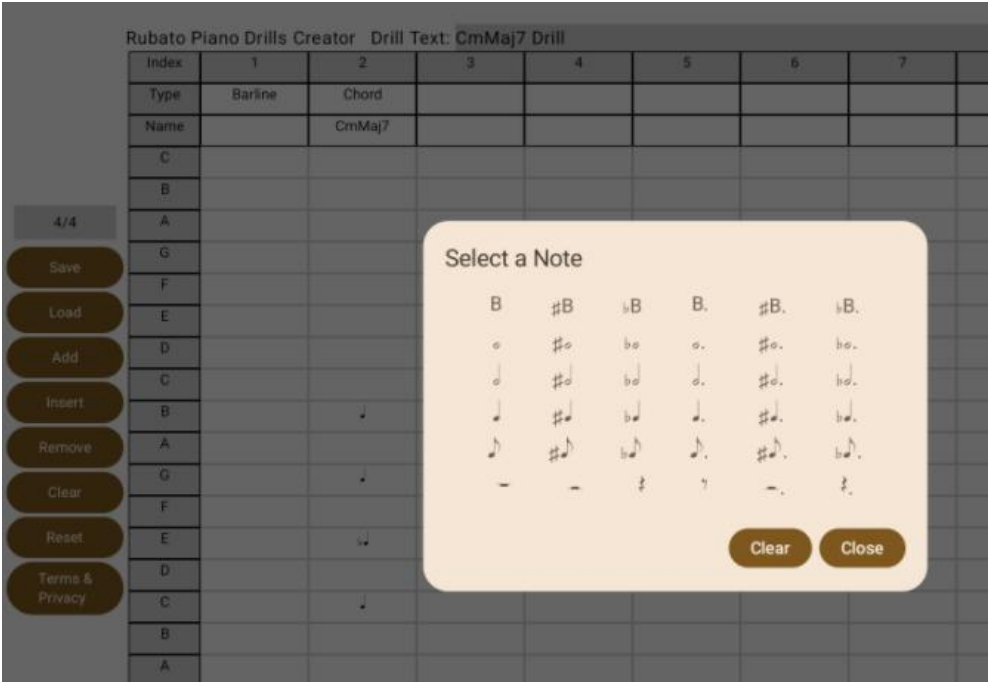


Figure 3: Chord Example

## 16. Saved Sequence

Figure 4 presents an example JSON file representing a C major chord, along with two Barlines and one Space. The structure is described below to help users develop their own applications or generate compatible chord sequences - without being limited to using RPDC.

```
{
  "time_signature": "4/4",
  "chord_list": [
    {
      "name": "Barline", "chordIndex": [0], "chordTones": [0], "chordPitch": [0], "chordSymbol": [0], "chordType": 2,
      "name": "C Major", "chordIndex": [28, 26, 24], "chordTones": [60, 64, 67], "chordPitch": [1, 1, 1], "chordSymbol": [54, 54, 54], "chordType": 0,
      "name": "Space", "chordIndex": [0], "chordTones": [0], "chordPitch": [0], "chordSymbol": [0], "chordType": 1,
      "name": "Barline", "chordIndex": [0], "chordTones": [0], "chordPitch": [0], "chordSymbol": [0], "chordType": 2
    }
  ]
}
```

Figure 4: Example JSON File

### 16.1 Time-signature

Time-signature shows the selected time-signature and can be one of the following six: 2/2, 2/4, 3/4, 4/4, 6/8, and 8/8

### 16.2 Chord\_list

The Chord list contains information about the notes within chord. See 16.3 - 16.8.

### 16.3 Name

Name is the name given to the chord.

### 16.4 chordIndex

ChordIndex contains the index of the note within the chord as shown in the keyboard layout in Figure 5 with a range of 7 - 50.

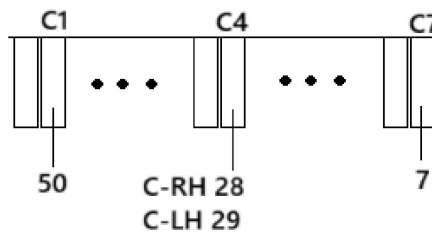


Figure 5: Note Index

### 16.5 chordTones

ChordTones contains the MIDI tone of the note within the chord as shown in the keyboard layout in Figure 6 with a range of 24 - 96.

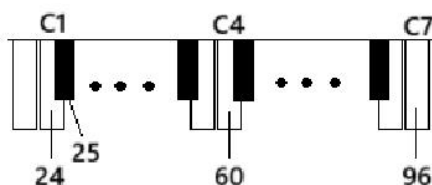


Figure 6: Note Tone

16.6 chordPitch

ChordPitch contains the pitch of the note within the chord as follows:  
0 = Flat  
1 = Normal  
2 = Sharp

16.7 chordSymbol

ChordSymbol contains the note symbol index within the chord as shown in Figure 7:

|                                      |    |
|--------------------------------------|----|
| 0.....                               | 71 |
| "A", "#A", "bA", "A.", "#A.", "bA.", |    |
| "B", "#B", "bB", "B.", "#B.", "bB.", |    |
| "C", "#C", "bC", "C.", "#C.", "bC.", |    |
| "D", "#D", "bD", "D.", "#D.", "bD.", |    |
| "E", "#E", "bE", "E.", "#E.", "bE.", |    |
| "F", "#F", "bF", "F.", "#F.", "bF.", |    |
| "G", "#G", "bG", "G.", "#G.", "bG.", |    |
| "o", "#o", "bo", "o.", "#o.", "bo.", |    |
| "j", "#j", "bj", "j.", "#j.", "bj.", |    |
| "J", "#J", "bJ", "J.", "#J.", "bJ.", |    |
| "j", "#j", "bj", "j.", "#j.", "bj.", |    |
| "J", "#J", "bJ", "J.", "#J.", "bJ.", |    |
| "~", "a", "z", "y", "A.", "z.")      |    |
| 66.....                              | 71 |

Figure 7: Musical Symbols

16.8 chordType

ChordType contains the type of the chord as follows:  
0 = Chord  
1 = Space  
2 = Barline