

Musically Useful Scale Practice

by

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The study of scales is one of the foundations of piano practice. They provide the pianist with a means to practice coordination, improve finger dexterity, and gain control over dynamics and articulation. Furthermore, scales acquaint us with the major and minor keys that govern the melodic and harmonic foundation of the repertoire.

Unfortunately, too many pianists practice scales in only one way: ascending and descending with a quasi-legato *mf* tone.

That's fine if your goal is to play the Chopin Ballades or Beethoven sonatas with a quasi-legato *mf* tone, but those interested in a more richly textured rendering of these masterworks may benefit from a more musically-aware study of scale technique. It is my hope that this brief guide will give you a few ideas to make your scale practice more fruitful. Enjoy!

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The Metronome

I'll put it this way - if you ever want to accompany or play in an ensemble with others, you need to be able to hear and follow an external beat. Learn to do it. After all, if you can't follow something as regular and predictable as a metronome, how are you going to follow something as odd as *people*?

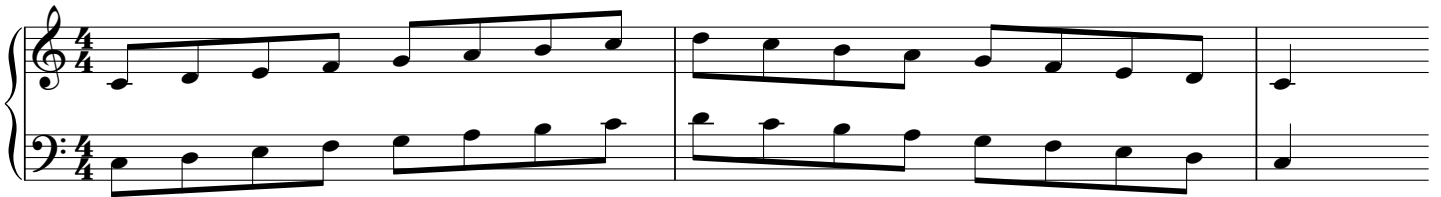
Hands Separate vs. Hands Together

Do them both, please. Practicing your hands separately helps you refine your technique and focus on the quality of your tone. Putting them together helps you coordinate your technique and tone. Do them both, please.

Introduction: Getting the Second Octave

We'll be practicing scales in two, three, and four octaves. This guide assumes that you've already learned the fingerings for one-octave scales and you're ready to move on.

If you're having difficulty getting that second octave, the following exercise may be of use. Simply put, it's a one-octave scale plus one note. This can also help you with the finger crossings that begin the second octave of white-key scales (C, G, D, A, E, and F Major.)



From here on, the exercises will refer to scales being played in two, three, or four octaves. I suggest practicing two-octave scales in eighth notes, three-octave scales in triplets, and four-octave scales in sixteenth notes. Common time is assumed for all exercises. The exercises will also be shown in the key of C Major, but you should practice them in all 12 Major keys (And it wouldn't hurt to do the natural and harmonic minor keys while you're at it. Come on, you know you want to!)

While I do suggest practicing scales in all keys, I do not suggest practicing scales in all ways. While some pianists may embark on a comprehensive study of scale technique, I tend to think of exercises as tools in a toolbox. Owning a monkey wrench doesn't mean you have to work on your plumbing. If the faucets and drains work, so be it.

Also, scales will often be notated with hands two octaves apart. This is done for two reasons. First, it looks better on the page, and second, playing scales two octaves apart promotes careful listening. This won't always be necessary, and most examinations are played with the hands separated by one octave, but do spend some of your time practicing this way. It really does help the ears, and good listening is essential in developing a musically useful technique!

Finally, you'll notice that nothing in this guide will tell you *how* to practice, only *what* to practice. Not all teachers and performers agree on the "best" hand position or the "best" way to manage finger crossings. I leave it up to you and your teacher to practice with good form. Piano practice is like a fitness workout that way - the *only* shortcut is to practice with good form. There are no others.

Dotted Rhythms

When a teacher hears a scale played unevenly, the first suggestion is invariably: "Practice in dotted rhythms!" Now for a dirty little secret - nobody really knows why this works. It might be because it demands a certain rhythmic intensity that we usually don't bring to scale practice; it might be because it alternates relaxation and tension; or it might be because it forces us to slow down and think a bit about what we're doing with our fingers. What we do know is this: It works, so do it!

The first dotted rhythm we use is simple enough - long/short:

A musical score for a piano exercise in 4/4 time. It consists of two staves, treble and bass clef. The melody in the treble clef starts with a dotted quarter note followed by an eighth note, then a quarter note, and continues with a sequence of eighth notes. The bass clef part follows a similar pattern, starting with a dotted quarter note and eighth note, then a quarter note, and continues with eighth notes. The exercise is divided into three measures.

The next dotted rhythm is a little trickier, but well worth our attention. Be careful, it's easy to cheat and switch over to long/short, so a metronome might come in handy with this one. Plus, Haydn actually uses this rhythm in real music!

A musical score for a piano exercise in 4/4 time, similar to the first one but with a more complex dotted rhythm. The treble clef part starts with a dotted quarter note followed by an eighth note, then a quarter note, and continues with a sequence of eighth notes. The bass clef part follows a similar pattern, starting with a dotted quarter note and eighth note, then a quarter note, and continues with eighth notes. The exercise is divided into three measures.

For three-octave scales, a siciliano rhythm also works nicely.

A musical score for a piano exercise in 6/8 time. It consists of two staves, treble and bass clef. The melody in the treble clef starts with a dotted quarter note followed by an eighth note, then a quarter note, and continues with a sequence of eighth notes. The bass clef part follows a similar pattern, starting with a dotted quarter note and eighth note, then a quarter note, and continues with eighth notes. The exercise is divided into three measures.

Rhythmic "Bursts"

Speed is something we all want to develop. Whether it's the quicksilver sound of passagework in the last movement of Mozart's F Major sonata, K. 332 or the volcanic ascents in the coda of Chopin's first ballade, to paraphrase Michael Douglas' famous line from the movie "Wall Street," speed is good!

In practicing these exercises, be sure to relax on the long notes and play the short notes very quickly. It's okay to lengthen the longer notes if necessary - this will help avoid tension and works great for passagework in the literature as well.

As played for two octaves, but works for three and four as well:

A musical exercise in 4/4 time, spanning two octaves. The exercise consists of a series of eighth-note patterns in both the treble and bass staves, with a final quarter rest in each staff.

Another possibility using triplets:

A musical exercise in 4/4 time, spanning two octaves, using triplets. The exercise consists of a series of eighth-note triplets in both the treble and bass staves, with a final quarter rest in each staff.

This also works well for passagework in the literature. Here's an example on how one might practice the LH part to the "Revolutionary" etude by Chopin:

Musical notation for the left hand part of the "Revolutionary" etude by Chopin, showing a series of eighth-note patterns in the bass staff.

Accents

Some call it "finger independence," but I like to call it "digit equality." The fingers never work entirely independent of one another, but we do need to be able to control the sound equally well with each digit. Practicing in rhythms can help, but varied accent patterns can also be quite useful.

Here are several variations for scales in two or four octaves:

A musical score for a scale exercise in 4/4 time, spanning two octaves. The score is written for both treble and bass clefs. The melody consists of quarter notes, and the bass line consists of eighth notes. Accents (>) are placed above every second note in both hands.

A musical score for a scale exercise in 4/4 time, spanning two octaves. The score is written for both treble and bass clefs. The melody consists of quarter notes, and the bass line consists of eighth notes. Accents (>) are placed above every fourth note in both hands.

You can also accent a certain note in each group of four.

The first:

A musical score for a scale exercise in 4/4 time, spanning two octaves. The score is written for both treble and bass clefs. The melody consists of quarter notes, and the bass line consists of eighth notes. Accents (>) are placed above the first note of every group of four notes in both hands.

The second:

A musical score for a scale exercise in 4/4 time, spanning two octaves. The score is written for both treble and bass clefs. The melody consists of quarter notes, and the bass line consists of eighth notes. Accents (>) are placed above the second note of every group of four notes in both hands.

The third:

A musical score for a scale exercise in 4/4 time, spanning two octaves. The score is written for both treble and bass clefs. The melody consists of quarter notes, and the bass line consists of eighth notes. Accents (>) are placed above the third note of every group of four notes in both hands.

The fourth:

A musical score for a scale exercise in 4/4 time, spanning two octaves. The score is written for both treble and bass clefs. The melody consists of quarter notes, and the bass line consists of eighth notes. Accents (>) are placed above the fourth note of every group of four notes in both hands.

The same principle can be applied when practicing three octave or triplet scales:

First note: Second note: Third note:

And if you *really* want a challenge, try it with a different accent pattern in each hand. This isn't just an academic exercise, we use this technique in Bach fugues all the time!

OR

As you can see, practicing with accents has many possibilities. Feel free to make up your own, or steal interesting rhythms from the literature. Bartok Mikrokosmos, for example:

Dynamics

Control over phrasing and dynamics is another important aspect of technique that can be addressed in scale practice, and by playing different shades and shapes in each hand, control over balance and texture can be enhanced as well.

As with accents, many exercises are possible:

A musical score for a 4/4 scale exercise. The piece is written for piano in 4/4 time. It consists of two staves: a treble clef staff and a bass clef staff. The melody in the treble clef starts on middle C and ascends through the scale, while the bass clef staff descends. The first note of each measure is marked with a dynamic accent (>). The exercise is divided into four measures, each containing a half-note scale run.

OR

A musical score for a 4/4 scale exercise, identical in notation to the one above. However, the dynamic accent (>) is placed on the final note of each measure instead of the first note.

For balance, it is often helpful to practice a different dynamic level in each hand. This will help your scales sound much cleaner and is very common in the literature. One of the biggest reasons scales often don't sound "together" is that the texture is not transparent. If you're ever accused of not being able to play your scales "together" or "cleanly," this is an excellent fix:

A musical score for a 4/4 scale exercise, identical in notation to the previous two. The dynamic markings are reversed: the right hand (treble clef) is marked with a forte (*f*) dynamic, and the left hand (bass clef) is marked with a piano (*p*) dynamic.

AND

A musical score for a 4/4 scale exercise, identical in notation to the previous two. The dynamic markings are reversed again: the right hand (treble clef) is marked with a piano (*p*) dynamic, and the left hand (bass clef) is marked with a forte (*f*) dynamic.

Once you're comfortable with the exercises on the previous page, it's time to shape each hand independently:

AND

Articulation

Typically, we want our scales to sound "clean." In addition to the texture/balance exercises mentioned previously, it is also important to be aware of this pianistic truth: "What Goes Down, Must Come Up." It is not enough that the keys go down at the right time, they should also come up at the right time!

The same sort of treatment given to dynamics can be given to articulation as well. We can vary the articulations used and explore different combinations of:

staccato (practice both a wrist staccato at slower tempi and a finger staccato at faster tempi)

legato

non-legato

marcato

leggiero

Again, try different articulations in the left and right hands, and if the repertoire demands, consider combining the different elements suggested here. For example, extended passagework in a Mozart concerto might be helped a great deal by combining a RH *legato* with a LH *non-legato* in one of the dynamic shape exercises given above.

Patterns

There are two patterns that may help in adding interest to your scale practice sessions. The first of these is the famous "eyeglass" pattern:

UP one octave, OUT one octave, IN one octave, UP one octave
 DOWN one octave, OUT one octave, IN one octave, DOWN one octave

The musical notation illustrates the "eyeglass" pattern in 4/4 time. It consists of two systems of two measures each. The first system shows the upward sequence: an upward scale (quarter notes), an outward octave (quarter notes), an inward octave (quarter notes), and an upward scale (quarter notes). The second system shows the downward sequence: a downward scale (quarter notes), an outward octave (quarter notes), an inward octave (quarter notes), and a downward scale (quarter notes). The piece concludes with a final quarter note in each hand.

A four-octave version is also possible:

UP two, OUT one, IN one, UP two, DOWN two, OUT one, IN one, DOWN two

The second pattern is the trill pattern. It can greatly improve the overall fluency and reliability of your scale technique. The idea is simple enough, just play each pair of notes twice:

The musical notation illustrates the trill pattern in 4/4 time. It consists of two systems of two measures each. The first system shows the upward sequence: a trill of C and D, a trill of D and E, a trill of E and F, a trill of F and G, a trill of G and A, a trill of A and B, a trill of B and C, and a trill of C and D. The second system shows the downward sequence: a trill of C and B, a trill of B and A, a trill of A and G, a trill of G and F, a trill of F and E, a trill of E and D, a trill of D and C, and a trill of C and B. The piece concludes with a final quarter note in each hand.