

4-note chord

Ramsay

In the [progression](#) - that is, the going on from one to another - of these [triplets](#) in harmonizing the [octave scale](#) ascending, [Nature](#) goes on normally till we come to the passage from the [sixth](#) to the [seventh note](#) of the [scale](#), whose two chords have no [note in common](#), and a new [step](#) has to be taken to link them together. And here the true way is to follow the method of [Nature](#) in the [birthplace](#) of chords.¹ The [root of the subdominant chord](#), to which the [sixth](#) of the [octave scale](#) belongs, which then becomes a **4-note chord**, and is called the [dominant seventh](#); F, the [root of the subdominant](#) F, A, C, is added to G, B, D, the notes of the [dominant](#), which then becomes G, B, D, F; the two chords have now a [note in common](#), and can pass on to the end of the [octave scale](#) normally. In going down the [octave scale](#) with [harmony](#), the passage from the [seventh](#) to the [sixth](#), where this break exists, meets us at the very second [step](#); but following [Nature's](#) method again, the [top of the dominant](#) goes over to the [root of the subdominant](#), and F, A, C, which has no [note in common](#) with G, B, D, becomes D, F, A, C, and is called the [subdominant sixth](#); and [continuity](#) being thus established, the [harmony](#) then passes on normally to the bottom of the scale, every successive [chord](#) being linked to the preceding [note](#) by a [note in common](#). [[Scientific Basis and Build of Music](#), page 49]

The [dominant seventh](#), G, B, D, F, a **4-note chord**,¹ only requires that the [root](#) G be made [sharp](#), which will make G#-B a [minor third](#) agreeably with the structure of the other two [intervals](#), B-D and E-F. The [chromatic chord](#) only differs from the [dominant seventh](#) in that it is wholly of [minor thirds](#). There are **four notes** in a [chromatic chord](#), but only three of them move by [semitonic progression](#) to a [tonic chord](#). When these three notes thus move to a [major chord](#), one is upward to the [root](#), a second downward to the top, and the third downward also to the middle. The [relative minor](#) being a [minor third](#) below [[Scientific Basis and Build of Music](#), page 52]

the [major](#), the [root](#) of the [major chord](#) is the middle of the [relative minor](#), and the middle of the [major chord](#) is the top of the [relative minor](#); and as the [note](#) which has a [semitonic progression](#) downward to the top of the [major](#) has a [semitonic progression](#) upward to the [root](#) of the [relative minor](#), so the same three notes which move in [semitonic progression](#) to the top, [root](#), and middle of the [major chord](#), likewise move by the [semitonic progression](#) to the [root](#), top, and middle of the [relative minor](#). In both cases the [progressions](#) are upward to the roots and downward to the tops; but in the [major](#) the [movement](#) is downward to the middle, while in the [minor](#) it is upward. So each one of these three of the **four notes** of the [chromatic chord](#) has two various movements.¹ [[Scientific Basis and Build of Music](#), page 53]

But, as the [subdominant sixth](#) and [dominant seventh](#) suggest that the [chromatic chord](#) should be a **4-note chord**, we must find out how [Nature](#) completes this [diatonic chromatic triad](#) and makes it a **4-note chord**, and that according to its own intrinsic [character](#) as of [minor thirds](#). [Nature](#) has always a [rationale](#) in her operations which it is ever delightful to discover. Wedged in between the [minor dominant](#) and the [major subdominant](#), this [triad](#), B D F, has already B, the [top of the dominant minor](#), for its [root](#); and F, the [root of the subdominant major](#), for its top; and its middle is the mysterious D which, in its two positions as [root of the minor subdominant](#) and [top of the major dominant](#), stands at the two extremes of the whole twofold [diatonic key](#), bounding and embracing all; and which in its two degrees as D₂₆ 2/3 and D₂₇ claims kindred with both [minor](#) and [major modes](#) of the twofold [key system](#). Surely this [Janus-faced D](#), looking this way toward the [minor](#) and that way to the [major](#), seems to say, "the complement of this [chord](#), of which I am the [heart](#), is not far to seek nor hard to find on either side." It has already B in common with the [minor dominant](#); the very next step is to the middle of this [chord](#), G. [Roots](#) and tops of chords may not be altered, but middles may with impunity be [flattened](#) or [sharpened](#) as occasion may require. No two of them in succession in the [chord-scale](#) have the same structure; the [chromatic triad](#), in claiming this middle, claims it [sharpened](#), for it must have [[Scientific Basis and Build of Music](#), page 54]

a [minor third](#). So by adding the [middle of the minor dominant](#), G, but made G#, that the [third](#) so produced may be a [minor third](#), according to the nature of the [chromatic chords](#), we have on this minor side of the [chord](#) G#, B, D, F, which we may call its minor form, inasmuch as the [semitone](#) of its second [minor third](#) is the one, B-C, which genetically arises in the [minor genesis](#); and inasmuch as it has also received its supplemental G# from the [minor dominant](#). How shall we find its complement on the other side? We have seen that D, the [Janus-faced center](#) of

this [triad](#), B, D, F, looks, as D27, toward the [major](#) also; it has already F in common with the [major subdominant](#). The very next step is to the middle of this [chord](#), A. Middles, we have just seen, are ever ready to accommodate themselves; and this [minor third triad](#) claims that A be *flattened*, for on this side also, though its [major](#) side, it must have a [minor third](#); so by adding the [middle of the major subdominant](#), A, but made A?, according to the nature of [chromatic intervals](#), that this F-A? also may be a [minor third](#); and now we have it as B, D, F, A?, which we may call its major form, inasmuch as the [semitone](#) of its [minor third](#), E-F, is the one which genetically arises in the [major genesis](#), and inasmuch as it has now received its supplemental A? from the [major subdominant](#). This, then, is the [chromatic chord](#) in its native place, and in its native constitution; a **4-note chord**, wholly of the [minor thirds](#). It will be observed that it has now, in its two forms, divided the [octave](#) into [minor thirds](#) - 4 [minor thirds](#), so it is very much at home anywhere in the [octave](#); indeed it is at home everywhere - G#, B, D, F, A?. And as every [diatonic common chord](#) in music is constituted of materials found in the octave of notes, it cannot be far from a [chromatic chord](#) in some one of its forms. [[Scientific Basis and Build of Music](#), page 55]

[Tetrachord](#) - From tetra, four, and [chord](#). It does not mean a **four-note chord**, but four [notes](#) such as our C, D, E, F. [[Scientific Basis and Build of Music](#), page 63]

less variety of [effect](#) than we find in the [diatonic chords](#); for although these [chords](#) may appear with their [notes](#) diversely named, there are still only the three. On account of their cosmopolitan [character](#) they need, and they have, no [compounding](#) with anything else. They are themselves at home everywhere; like a [universal joint](#), they can turn any way, and [affiliate](#) in all directions. Being **4-note chords**, and all of [minor thirds](#), their [effect](#) is always [minor](#), and they fall with loving softness to the [diatonic chords](#) to which they [resolve](#). How this [chord](#) in its [germ](#) is found in the [diatonic chord-scale](#); how it becomes a **4-note chord** of [minor thirds](#); how it variously resolves, each one of the three, in three manners with 24 [tonic chords](#) - all this is so fully set forth in the pre-note and treatise on the [chromatic chord](#) that it need not be more discussed in this place. See also Plates [XVI.](#), [XVII.](#), [XVIII.](#), [XIX.](#), and [XX](#). [[Scientific Basis and Build of Music](#), page 73]

See Also

[Ramsay - How the Diatonic Germ becomes a 4-Note Chord tetrachord](#)