

Solution to Fleet Footwork

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Each number on a foot corresponds to an eighth note in the measure. There are 9 measures. The overall pattern of steps, on a per-measure basis, is:

- 1) W2 W4 B7
- 2) W1 W4 B5 B7
- 3) W1 W3 B6 B8
- 4) W1 W3 B4 B7
- 5) W3 W5 B6
- 6) B4
- 7) B1 W4 W7
- 8) W3 W5 B8
- 9) B7

Where W is a white footstep and B is a black footstep. When we associate the eighth note's letter in each measure with these notes, we get the following sequence (Split by color):

We2 We4 Be7, Wf1 Wc4 Be5 Bd7, Wg1 Wf3 Bd6 Bc8, Wb1 Wc3 Bg4 Bg7, Wf3 Wf5 Bg6, Bg4, Bd1 Wc4 Wf7, Wc3 Wd5 Be8, Be7

Separating each color into its own column, we see

W: E2 E4 F1 C4 G1 F3 B1 C3 F3 E5 C4 F7 C3 D5
B: E7 E5 D7 D6 C8 G4 G7 G6 G4 D1 E8 E7

Or somewhat more legibly

w: e2 -> e4
b: e7 -> e5
w: f1 -> c4
b: d7 -> d6
w: g1 -> f3
b: c8 -> g4
w: b1 -> c3
b: g7 -> g6
w: f3 -> e5
b: g4 -> d1
w: c4 -> f7
b: e8 -> e7
W: c3 -> d5

This describes an entire legal game of chess, hinted at by the title and flavor text. This game is known as "Legall's Mate". Finding this information is easy— for example, a search for "Chess Openings" will return www.eudesign.com/chessops in both Google and Bing, and you can literally play the game specified by the music and the site will tell you the game's name. This functionality is available in many places, including many popular chess programs.

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