

Emoji Directionality Recommendation

Author: Sean Stewart on behalf of the Emoji Subcommittee (ESC)

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1. Introduction

As a result of feedback delivered on document [L2-22/275](#) during UTC #173, the Emoji Subcommittee recommends that vendors adopt support for Option 3, “Implement Support for UTS #51 Recommendations on Directionality.” This option already exists within the scope of UTS #51, and therefore has no additional impact to the Unicode Standard, providing a reasonable solution to the challenges presented in [L2-22/275](#).

2. Identification Process

Document [L2-22/275](#) suggested quantizing the existing emoji characters into three categories whose names collide with some existing, well-established Unicode terminology (such as **strong** and **weak** directionality). The ESC will adopt feedback delivered during UTC #173 on this matter, and will therefore change the category names to the following:

1. **Semantic Movement** (was Strong Directionality)
2. **Agentive Directionality** (was Weak Directionality)
3. **Neutral** (no change)

These bucket names may continue to change into the future, and only serve as an organizing principle to help the ESC understand how directionality categorically affects an emoji's meaning.

The ESC reviewed all RGI emoji, up to and including those proposed for Unicode Version 15.1, in an effort to categorize each of them into one of the three buckets above. Emoji belonging to the **Semantic Movement** category have designs or inherent meanings that literally communicate movement in one way or another (such as , , , and so on). Either the actor/agent/subject within the emoji design physically moves (such as a person rolls on a wheelchair / a bird flies) or an object within the emoji design moves (such as a deity blows out wind / a ball is thrown). While emoji belonging to the **Agentive Directionality** category do not literally express movement, they can however affect their own meaning or the meaning of their surrounding linguistic context when directionality is taken into account (such as , , , and so on).

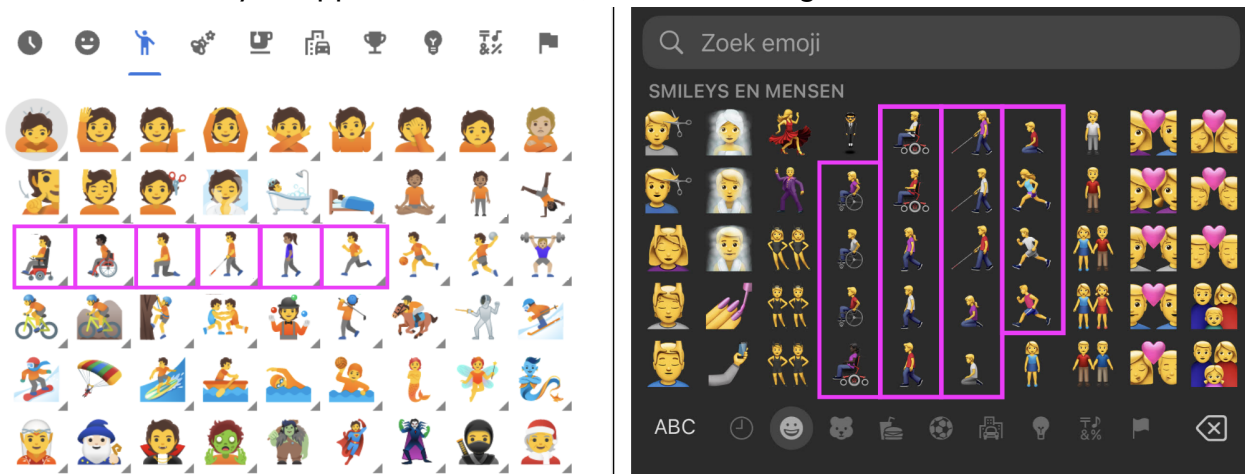
3. Emoji with Semantic Movement

Of the 241 emoji currently categorized in the Semantic Movement or Agentive Directionality buckets, the ESC recommends that, for Unicode Version 15.1, vendors support a subset belonging to the **Semantic Movement** category. Of the 105 emoji identified as belonging to this category, the ESC recommends vendors first adopt directionality support for 18 “people” base emoji. These 18 base emoji were selected specifically because of their uniform leftward-facing alignment shared by operating system vendors. This uniform directional alignment also enables the ESC to add a smaller number of new RGI sequences, because only the opposite, rightward-facing variants are necessary. The ESC plans to produce future recommendations on default directionality of additional existing and future emoji as a result of expanding future support for directionality.

Additionally, by starting with a smaller set, vendors and the ESC can gauge the customer experience impact of adopting directionality recommendations. This information will be used to determine how best to roll out additional directionality support (if any) in future versions of the Unicode Standard.

a. Appearance on Keyboard

In order to mitigate confusion as to why or which emoji can change direction, we’ve selected a small set that are clustered together on the emoji keyboard. Because not all emoji keyboards follow the same ordering, we have provided examples of where this collection is likely to appear on Android (left) and iOS (right) devices as shown below:



b. Identification

The table below lists the recommended 18 “people” categories and their base emoji or base emoji ZWJ sequences. Supporting directionality on a vendor platform, according to [UTS #51](#), requires each sequence, in addition to their 5 skin-tone variations, to be ZWJ-joined with ➡ characters.

	ZWJ Sequence Base	Emoji	Category
1	U+1F6B6		People
2	U+1F6B6 U+200D U+2642 U+FE0F		People
3	U+1F6B6 U+200D U+2640 U+FE0F		People
4	U+1F9CE		People
5	U+1F9CE U+200D U+2642 U+FE0F		People
6	U+1F9CE U+200D U+2640 U+FE0F		People
7	U+1F9D1 U+200D U+1F9AF		People
8	U+1F468 U+200D U+1F9AF		People
9	U+1F469 U+200D U+1F9AF		People
10	U+1F9D1 U+200D U+1F9BC		People
11	U+1F468 U+200D U+1F9BC		People
12	U+1F469 U+200D U+1F9BC		People

13	U+1F9D1 U+200D U+1F9BD		People
14	U+1F468 U+200D U+1F9BD		People
15	U+1F469 U+200D U+1F9BD		People
16	U+1F3C3		People
17	U+1F3C3 U+200D U+2642 U+FE0F		People
18	U+1F3C3 U+200D U+2640 U+FE0F		People

c. Counts

Type	Count
Base Emoji / Sequences	18
Skin-tone Sequences	90
Total New RGI Sequences	108

d. RGI Data File Additions

To repurpose the data below, which will be added to the emoji-zwj-sequences.txt data file, please see this document's PDF attachment.

```
1F6B6 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person walking facing right ; E15.1 [1] (🚶➡️)
1F6B6 1F3FB 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person walking facing right: light skin
tone ; E15.1 [1] (🚶➡️)
1F6B6 1F3FC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person walking facing right: medium-light
skin tone ; E15.1 [1] (🚶➡️)
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1F6B6 1F3FD 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person walking facing right: medium skin tone ; E15.1 [1] (🚶🏻➡️)
 1F6B6 1F3FE 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person walking facing right: medium-dark skin tone ; E15.1 [1] (🚶🏻➡️)
 1F6B6 1F3FF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person walking facing right: dark skin tone ; E15.1 [1] (🚶🏻➡️)
 1F6B6 200D 2642 FE0F 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; man walking facing right ; E15.1 [1] (🚶➡️)
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 1F9CE 1F3FB 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person kneeling facing right: light skin tone ; E15.1 [1] (🧎➡️)
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 dark skin tone ; E15.1 [1] (👤➡️)
 1F9D1 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person with white cane facing right ;
 E15.1 [1] (👤➡️)
 1F9D1 1F3FB 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person with white cane facing
 right: light skin tone ; E15.1 [1] (👤➡️)
 1F9D1 1F3FC 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person with white cane facing
 right: medium-light skin tone ; E15.1 [1] (👤➡️)
 1F9D1 1F3FD 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person with white cane facing
 right: medium skin tone ; E15.1 [1] (👤➡️)
 1F9D1 1F3FE 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person with white cane facing
 right: medium-dark skin tone ; E15.1 [1] (👤➡️)
 1F9D1 1F3FF 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person with white cane facing
 right: dark skin tone ; E15.1 [1] (👤➡️)
 1F468 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; man with white can facing right ;
 E15.1 [1] (👤➡️)
 1F468 1F3FB 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; man with white can facing right:
 light skin tone ; E15.1 [1] (👤➡️)
 1F468 1F3FC 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; man with white can facing right:
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 E15.1 [1] (👤➡️)
 1F469 1F3FB 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman with white cane facing
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 1F469 1F3FD 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman with white cane facing
 right: medium skin tone ; E15.1 [1] (👤➡️)
 1F469 1F3FE 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman with white cane facing
 right: medium-dark skin tone ; E15.1 [1] (👤➡️)

1F469 1F3FF 200D 1F9AF 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman with white cane facing right: dark skin tone ; E15.1 [1] ()

1F9D1 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in motorized wheelchair facing right ; E15.1 [1] ()

1F9D1 1F3FB 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in motorized wheelchair facing right: light skin tone ; E15.1 [1] ()

1F9D1 1F3FC 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in motorized wheelchair facing right: medium-light skin tone ; E15.1 [1] ()

1F9D1 1F3FD 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in motorized wheelchair facing right: medium skin tone ; E15.1 [1] ()

1F9D1 1F3FE 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in motorized wheelchair facing right: medium-dark skin tone ; E15.1 [1] ()

1F9D1 1F3FF 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in motorized wheelchair facing right: dark skin tone ; E15.1 [1] ()

1F468 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; man in motorized wheelchair facing right ; E15.1 [1] ()

1F468 1F3FB 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; man in motorized wheelchair facing right: light skin tone ; E15.1 [1] ()

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1F469 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman in motorized wheelchair facing right ; E15.1 [1] ()

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1F469 1F3FE 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman in motorized wheelchair facing right: medium-dark skin tone ; E15.1 [1] ()

1F469 1F3FF 200D 1F9BC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman in motorized wheelchair facing right: dark skin tone ; E15.1 [1] ()

1F9D1 200D 1F9BD 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in manual wheelchair facing right ; E15.1 [1] ()

1F9D1 1F3FB 200D 1F9BD 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in manual wheelchair facing right: light skin tone ; E15.1 [1] ()

1F9D1 1F3FC 200D 1F9BD 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in manual wheelchair facing right: medium-light skin tone ; E15.1 [1] ()

1F9D1 1F3FD 200D 1F9BD 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in manual wheelchair facing right: medium skin tone ; E15.1 [1] ()

1F9D1 1F3FE 200D 1F9BD 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person in manual wheelchair facing right: medium-dark skin tone ; E15.1 [1] ()

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 1F3C3 1F3FB 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person running facing right: light skin tone ; E15.1 [1] (🏃➡️)
 1F3C3 1F3FC 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; person running facing right: medium-light skin tone ; E15.1 [1] (🏃➡️)
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1F3C3 1F3FD 200D 2640 FE0F 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman running facing right:
medium skin tone ; E15.1 [1] (, )
1F3C3 1F3FE 200D 2640 FE0F 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman running facing right:
medium-dark skin tone ; E15.1 [1] (, )
1F3C3 1F3FF 200D 2640 FE0F 200D 27A1 FE0F ; RGI_Emoji_ZWJ_Sequence ; woman running facing right:
dark skin tone ; E15.1 [1] (, )