

Subj: Additional RGI emoji ZWJ sequences for women/men holding hands

Date: 2019-Aug-27

From: Peter Edberg [revised by Ned Holbrook]

Proposal

Add the following RGI emoji ZWJ sequences, with an annotation that these can be represented using an image with the skin tones flipped. The following table provides the specific proposed additions to emoji-zwj-sequences.txt:

```
# Note, the following can be depicted using images with the skin tones in the opposite order (matching images for other sequences)
1F468 1F3FB 200D 1F91D 200D 1F468 1F3FC ; Emoji_ZWJ_Sequence ; men holding hands: light skin tone, medium-light skin tone
1F468 1F3FB 200D 1F91D 200D 1F468 1F3FD ; Emoji_ZWJ_Sequence ; men holding hands: light skin tone, medium skin tone
1F468 1F3FB 200D 1F91D 200D 1F468 1F3FE ; Emoji_ZWJ_Sequence ; men holding hands: light skin tone, medium-dark skin tone
1F468 1F3FB 200D 1F91D 200D 1F468 1F3FF ; Emoji_ZWJ_Sequence ; men holding hands: light skin tone, dark skin tone
1F468 1F3FC 200D 1F91D 200D 1F468 1F3FD ; Emoji_ZWJ_Sequence ; men holding hands: medium-light skin tone, medium skin tone
1F468 1F3FC 200D 1F91D 200D 1F468 1F3FE ; Emoji_ZWJ_Sequence ; men holding hands: medium-light skin tone, medium-dark skin tone
1F468 1F3FC 200D 1F91D 200D 1F468 1F3FF ; Emoji_ZWJ_Sequence ; men holding hands: medium-light skin tone, dark skin tone
1F468 1F3FD 200D 1F91D 200D 1F468 1F3FE ; Emoji_ZWJ_Sequence ; men holding hands: medium skin tone, medium-dark skin tone
1F468 1F3FD 200D 1F91D 200D 1F468 1F3FF ; Emoji_ZWJ_Sequence ; men holding hands: medium skin tone, dark skin tone
1F468 1F3FE 200D 1F91D 200D 1F468 1F3FF ; Emoji_ZWJ_Sequence ; men holding hands: medium-dark skin tone, dark skin tone
1F469 1F3FB 200D 1F91D 200D 1F469 1F3FC ; Emoji_ZWJ_Sequence ; women holding hands: light skin tone, medium-light skin tone
1F469 1F3FB 200D 1F91D 200D 1F469 1F3FD ; Emoji_ZWJ_Sequence ; women holding hands: light skin tone, medium skin tone
1F469 1F3FB 200D 1F91D 200D 1F469 1F3FE ; Emoji_ZWJ_Sequence ; women holding hands: light skin tone, medium-dark skin tone
1F469 1F3FB 200D 1F91D 200D 1F469 1F3FF ; Emoji_ZWJ_Sequence ; women holding hands: light skin tone, dark skin tone
1F469 1F3FC 200D 1F91D 200D 1F469 1F3FD ; Emoji_ZWJ_Sequence ; women holding hands: medium-light skin tone, medium skin tone
1F469 1F3FC 200D 1F91D 200D 1F469 1F3FE ; Emoji_ZWJ_Sequence ; women holding hands: medium-light skin tone, medium-dark skin tone
1F469 1F3FC 200D 1F91D 200D 1F469 1F3FF ; Emoji_ZWJ_Sequence ; women holding hands: medium-light skin tone, dark skin tone
1F469 1F3FD 200D 1F91D 200D 1F469 1F3FE ; Emoji_ZWJ_Sequence ; women holding hands: medium skin tone, medium-dark skin tone
1F469 1F3FD 200D 1F91D 200D 1F469 1F3FF ; Emoji_ZWJ_Sequence ; women holding hands: medium skin tone, dark skin tone
1F469 1F3FE 200D 1F91D 200D 1F469 1F3FF ; Emoji_ZWJ_Sequence ; women holding hands: medium-dark skin tone, dark skin tone
1F9D1 1F3FB 200D 1F91D 200D 1F9D1 1F3FC ; Emoji_ZWJ_Sequence ; people holding hands: light skin tone, medium-light skin tone
1F9D1 1F3FB 200D 1F91D 200D 1F9D1 1F3FD ; Emoji_ZWJ_Sequence ; people holding hands: light skin tone, medium skin tone
1F9D1 1F3FB 200D 1F91D 200D 1F9D1 1F3FE ; Emoji_ZWJ_Sequence ; people holding hands: light skin tone, medium-dark skin tone
1F9D1 1F3FB 200D 1F91D 200D 1F9D1 1F3FF ; Emoji_ZWJ_Sequence ; people holding hands: light skin tone, dark skin tone
1F9D1 1F3FC 200D 1F91D 200D 1F9D1 1F3FD ; Emoji_ZWJ_Sequence ; people holding hands: medium-light skin tone, medium skin tone
1F9D1 1F3FC 200D 1F91D 200D 1F9D1 1F3FE ; Emoji_ZWJ_Sequence ; people holding hands: medium-light skin tone, medium-dark skin tone
1F9D1 1F3FC 200D 1F91D 200D 1F9D1 1F3FF ; Emoji_ZWJ_Sequence ; people holding hands: medium-light skin tone, dark skin tone
1F9D1 1F3FD 200D 1F91D 200D 1F9D1 1F3FE ; Emoji_ZWJ_Sequence ; people holding hands: medium skin tone, medium-dark skin tone
1F9D1 1F3FD 200D 1F91D 200D 1F9D1 1F3FF ; Emoji_ZWJ_Sequence ; people holding hands: medium skin tone, dark skin tone
1F9D1 1F3FE 200D 1F91D 200D 1F9D1 1F3FF ; Emoji_ZWJ_Sequence ; people holding hands: medium-dark skin tone, dark skin tone
```

Update the counts given in UTS #51 section 2.6.2 [Multi-Person Skin Tones](#), and add an explanation that implementations may choose to represent a couple sequence of the same gender with the modifiers by having the modifiers in either order. That is, the following two items could have the same image:

```
1F468 1F3FB 200D 1F91D 200D 1F468 1F3FC ; Emoji_ZWJ_Sequence ; men holding hands: light skin tone, medium-light skin tone
1F468 1F3FC 200D 1F91D 200D 1F468 1F3FB ; Emoji_ZWJ_Sequence ; men holding hands: medium-light skin tone, light skin tone
```

Background

Unicode 12.0 added skin tone combinations for four versions of couples holding hands: woman and man holding hands, (two) women holding hands, (two) men holding hands, and (two neutral-gender) people holding hands. Several different encoding approaches are used:

1. For woman and man holding hands, there is a single character U+1F46B without skin tones.
 - a. For the 5 combinations in which the man and woman have the same skin tone, this character is used with a single modifier, e.g.:

Emoji Modifier Sequences

```
1F46B 1F3FB      ; woman and man holding hands: light skin tone
1F46B 1F3FC      ; woman and man holding hands: medium-light skin tone
...
1F46B 1F3FF      ; woman and man holding hands: dark skin tone
```

- b. For the other 20 combinations in which the man and woman have different skin tones, ZWJ sequences are used that combine woman+modifier, handshake, and man+modifier:

Emoji ZWJ Sequences

```
1F469 1F3FB 200D 1F91D 200D 1F468 1F3FC ; woman and man holding hands: light skin tone,
medium-light skin tone
1F469 1F3FB 200D 1F91D 200D 1F468 1F3FD ; woman and man holding hands: light skin tone,
medium skin tone
1F469 1F3FB 200D 1F91D 200D 1F468 1F3FE ; woman and man holding hands: light skin tone,
medium-dark skin tone
1F469 1F3FB 200D 1F91D 200D 1F468 1F3FF ; woman and man holding hands: light skin tone,
dark skin tone
...
1F469 1F3FF 200D 1F91D 200D 1F468 1F3FB ; woman and man holding hands: dark skin tone,
light skin tone
1F469 1F3FF 200D 1F91D 200D 1F468 1F3FC ; woman and man holding hands: dark skin tone,
medium-light skin tone
1F469 1F3FF 200D 1F91D 200D 1F468 1F3FD ; woman and man holding hands: dark skin tone,
medium skin tone
1F469 1F3FF 200D 1F91D 200D 1F468 1F3FE ; woman and man holding hands: dark skin tone,
medium-dark skin tone
```

2. For the women holding hands and men holding hands, there are also single characters U+1F46D and U+1F46C respectively.
 - a. For the 5 combinations in which the two women or two men have the same skin tone, that character is used with a single modifier as in 1.a above.
 - b. For the combinations in which the two people have different skin tones, it was not felt necessary to have both possible combinations of a given darker/lighter combination, e.g. to have two women with Fitzgerald-3 on the left and Fitzgerald-5 on the right, and also two women with Fitzgerald-5 on the left and Fitzgerald-3 on the right. Instead, only the 10 combinations with the darker skin tone on the left are supported as RGI:

```

1F469 1F3FC 200D 1F91D 200D 1F469 1F3FB ; women holding hands: medium-light skin tone,
light skin tone
1F469 1F3FD 200D 1F91D 200D 1F469 1F3FB ; women holding hands: medium skin tone, light
skin tone
1F469 1F3FD 200D 1F91D 200D 1F469 1F3FC ; women holding hands: medium skin tone,
medium-light skin tone
...
1F469 1F3FF 200D 1F91D 200D 1F469 1F3FB ; women holding hands: dark skin tone, light
skin tone
1F469 1F3FF 200D 1F91D 200D 1F469 1F3FC ; women holding hands: dark skin tone, medium-
light skin tone
1F469 1F3FF 200D 1F91D 200D 1F469 1F3FD ; women holding hands: dark skin tone, medium
skin tone
1F469 1F3FF 200D 1F91D 200D 1F469 1F3FE ; women holding hands: dark skin tone, medium-
dark skin tone

```

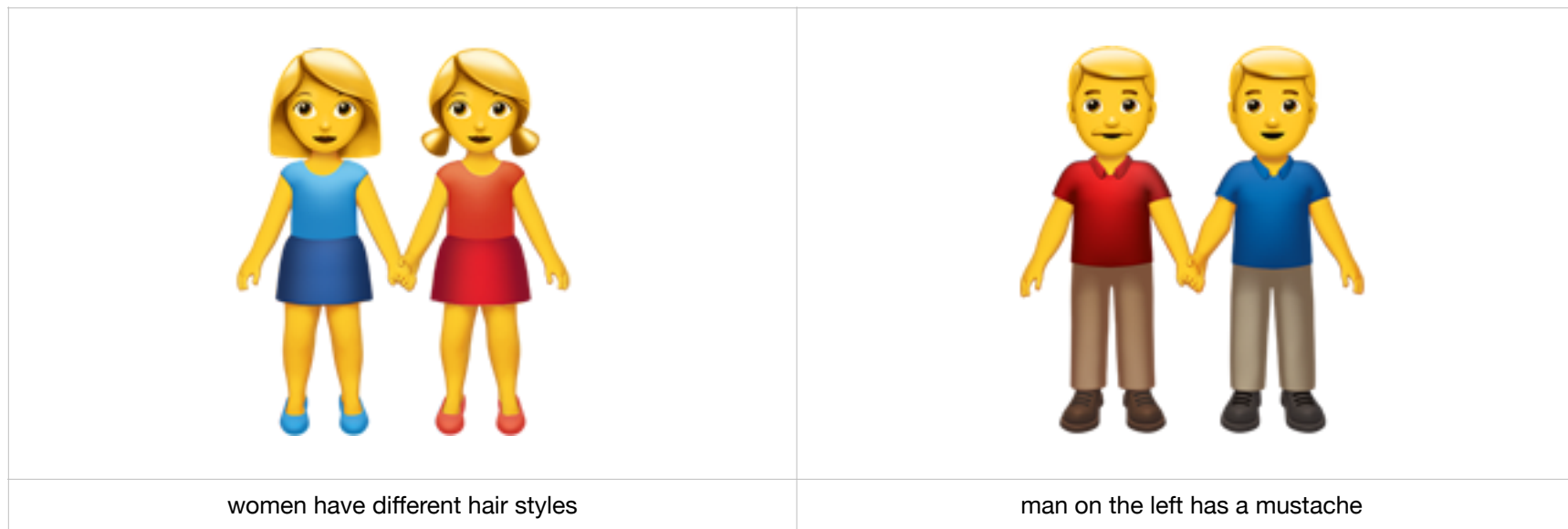
3. For the (neutral-gender) people holding hands, there is no single character.
 - a. For the 5 combinations in which the two people have the same skin tones, ZWJ sequences are used:


```

1F9D1 1F3FB 200D 1F91D 200D 1F9D1 1F3FB ; people holding hands: light skin tone
1F9D1 1F3FC 200D 1F91D 200D 1F9D1 1F3FC ; people holding hands: medium-light skin tone
1F9D1 1F3FD 200D 1F91D 200D 1F9D1 1F3FD ; people holding hands: medium skin tone
1F9D1 1F3FE 200D 1F91D 200D 1F9D1 1F3FE ; people holding hands: medium-dark skin tone
1F9D1 1F3FF 200D 1F91D 200D 1F9D1 1F3FF ; people holding hands: dark skin tone

```
 - b. For the combinations in which the two people have different skin tones, only the 10 combinations with the darker skin tone on the left are supported as RGI, as in 2.b above.

However, the Apple designs for the same-gender couples holding hands depict the two people in each couple differently, for example:



For user-interface consistency, Apple designers would like to allow the same skin-tone combinations for the differently-drawn people in the same-gender couples that are available for the different-gender couple (that is, to support both Fitzgerald-3 on the left and Fitzgerald-5 on the right, as well as the reverse, for the same-gender couples). In order to do this, Apple is requesting 10 new RGI sequences for each of the same-gender couples: women holding hands, men holding hands, and people holding hands.

References

Proposed change to Emoji 12 data for skin tones and sequences [[L2/18-340](#)]