

# Proposal for Consistent Gender Options for Emoji ZWJ Sequences

**From:** Jennifer Daniel and the Emoji Subcommittee (ESC)

**To:** Unicode Technical Committee (UTC)

**Date:** 2019-04-25

**Updated:** 2019-10-22

**Version:** 2.0

# Introduction

Since the addition of gender-related ZWJ Sequences in Emoji 4.0, the encoding of gender has matured every year. However, the implementation seems random to the average person. Many emoji additions list three gender options as Recommended for General Interchange (RGI), while others list two, or one.

The Emoji Subcommittee is recommending 138 new sequences be added to Emoji 13.0 to fill these gaps and create a meaningful user experience. This follows priorities set out in [19-101](#), as well as details of Google's intention to display gender inclusive emoji designs from 2019 onward, noted in [19-078](#).

## RELEVANT DOCUMENTS

1. [L2/19-078](#) Using Gender Inclusive Designs For existing code points which do not specify gender
2. [L2/17-232](#) Proposal for Fully Gender-Inclusive Emoji
3. [L2/17-195](#) Add Emoji Gender Properties
4. [L2/17-071](#) Gender-Neutral Human-form Emoji
5. [L2/16-160](#) Expanding Emoji Professions: Reducing Gender Inequality
6. [L2/15-048](#) Adding gender counterparts to emoji list?
7. [L2/180](#) Gender Emoji Strategy
7. [L2/17-287](#) ESC Recommendations

# Proposal














Many ZWJ Sequences that are Recommended for General Interchange (RGI) use a standard format of WOMAN (or MAN) + Object.











These scale simply by using U+1F9D1 ADULT (CLDR: Person) in place of U+1F469 WOMAN or U+1F468 MAN in each sequence, to create a gender inclusive option.

**The Emoji Subcommittee recommends the addition of the following 23 Person ZWJ Sequences + associated skin tones.**

*Note: that the skin-tone modifiers are omitted from the charts. The full number of images is  $23 * 6 = 138$*



Nº	IMG	TYPE	SUBTYPE	ZWJ	NAME
1		Person-Object	role	👨 + 🏥	health worker
2		Person-Object	role	👨 + ⚖️	judge
3		Person-Object	role	👨 + ✈️	pilot
4		Person-Object	role	👨 + 🌾	farmer
5		Person-Object	role	👨 + 🍳	cook
6		Person-Object	role	👨 + 🎓	student
7		Person-Object	role	👨 + 🎤	singer
8		Person-Object	role	👨 + 🎨	artist
9		Person-Object	role	👨 + 🏫	teacher
10		Person-Object	role	👨 + 🏭	Factory worker
11		Person-Object	role	👨 + 💻	technologist
12		Person-Object	role	👨 + 💼	Office worker
13		Person-Object	role	👨 + 🛠️	mechanic

Nº	IMG	TYPE	SUBTYPE	ZWJ	NAME
14		Person-Object	role	👨 + 🧪	scientist
15		Person-Object	role	👨 + 🚀	astronaut
16		Person-Object	role	👨 + 🚒	firefighter
17		Person-Object	role	👨 + ♿	Person in manual wheelchair
18		Person-Object	role	👨 + 🦯	Person with probing cane
19		Person-Object	role	👨 + 🦽	Person in motorized wheelchair
20		Person-Object	hair	👨 + 🦱	Person: Curly Hair
21		Person-Object	hair	👨 + 🦲	Person: Bald
22		Person-Object	hair	👨 + 🦿	Person: Red Hair
23		Person-Object	hair	👨 + 🦳	Person: White Hair

# Proposed ZWJ Sequences






























List of new sequences proposed for addition in the Emoji 13.0 data files. Total new sequences: 138.

# Emoji\_ZWJ\_Sequence: Role

```
1F9D1 200D 1F9B0 ; Emoji_Zwj_Sequence # 12.1 🧑👱 person: red hair
1F9D1 1F3FB 200D 1F9B0 ; Emoji_Zwj_Sequence # 12.1 🧑👱 person: light skin tone, red hair
1F9D1 1F3FC 200D 1F9B0 ; Emoji_Zwj_Sequence # 12.1 🧑👱 person: medium-light skin tone, red hair
1F9D1 1F3FD 200D 1F9B0 ; Emoji_Zwj_Sequence # 12.1 🧑👱 person: medium skin tone, red hair
1F9D1 1F3FE 200D 1F9B0 ; Emoji_Zwj_Sequence # 12.1 🧑👱 person: medium-dark skin tone, red hair
1F9D1 1F3FF 200D 1F9B0 ; Emoji_Zwj_Sequence # 12.1 🧑👱 person: dark skin tone, red hair
1F9D1 200D 1F9B1 ; Emoji_Zwj_Sequence # 12.1 🧑👴 person: curly hair
1F9D1 1F3FB 200D 1F9B1 ; Emoji_Zwj_Sequence # 12.1 🧑👴 person: light skin tone, curly hair
1F9D1 1F3FC 200D 1F9B1 ; Emoji_Zwj_Sequence # 12.1 🧑👴 person: medium-light skin tone, curly hair
1F9D1 1F3FD 200D 1F9B1 ; Emoji_Zwj_Sequence # 12.1 🧑👴 person: medium skin tone, curly hair
1F9D1 1F3FE 200D 1F9B1 ; Emoji_Zwj_Sequence # 12.1 🧑👴 person: medium-dark skin tone, curly hair
1F9D1 1F3FF 200D 1F9B1 ; Emoji_Zwj_Sequence # 12.1 🧑👴 person: dark skin tone, curly hair
1F9D1 200D 1F9B3 ; Emoji_Zwj_Sequence # 12.1 🧑👶 person: white hair
1F9D1 1F3FB 200D 1F9B3 ; Emoji_Zwj_Sequence # 12.1 🧑👶 person: light skin tone, white hair
1F9D1 1F3FC 200D 1F9B3 ; Emoji_Zwj_Sequence # 12.1 🧑👶 person: medium-light skin tone, white hair
1F9D1 1F3FD 200D 1F9B3 ; Emoji_Zwj_Sequence # 12.1 🧑👶 person: medium skin tone, white hair
1F9D1 1F3FE 200D 1F9B3 ; Emoji_Zwj_Sequence # 12.1 🧑👶 person: medium-dark skin tone, white hair
1F9D1 1F3FF 200D 1F9B3 ; Emoji_Zwj_Sequence # 12.1 🧑👶 person: dark skin tone, white hair
1F9D1 200D 1F9B2 ; Emoji_Zwj_Sequence # 12.1 🧑👲 person: bald
1F9D1 1F3FB 200D 1F9B2 ; Emoji_Zwj_Sequence # 12.1 🧑👲 person: light skin tone, bald
1F9D1 1F3FC 200D 1F9B2 ; Emoji_Zwj_Sequence # 12.1 🧑👲 person: medium-light skin tone, bald
1F9D1 1F3FD 200D 1F9B2 ; Emoji_Zwj_Sequence # 12.1 🧑👲 person: medium skin tone, bald
1F9D1 1F3FE 200D 1F9B2 ; Emoji_Zwj_Sequence # 12.1 🧑👲 person: medium-dark skin tone, bald
```

1F9D1 1F3FF 200D 1F9B2 ; Emoji\_Zwj\_Sequence # 12.1 🧑🏿🦲 person: dark skin tone, bald  
1F9D1 200D 2695 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🧑🏻 health worker  
1F9D1 1F3FB 200D 2695 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🧑🏻 health worker: light skin tone  
1F9D1 1F3FC 200D 2695 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🧑🏻 health worker: medium-light skin tone  
1F9D1 1F3FD 200D 2695 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🧑🏻 health worker: medium skin tone  
1F9D1 1F3FE 200D 2695 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🧑🏻 health worker: medium-dark skin tone  
1F9D1 1F3FF 200D 2695 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🧑🏻 health worker: dark skin tone  
1F9D1 200D 1F393 ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🎓 student  
1F9D1 1F3FB 200D 1F393 ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🎓 student: light skin tone  
1F9D1 1F3FC 200D 1F393 ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🎓 student: medium-light skin tone  
1F9D1 1F3FD 200D 1F393 ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🎓 student: medium skin tone  
1F9D1 1F3FE 200D 1F393 ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🎓 student: medium-dark skin tone  
1F9D1 1F3FF 200D 1F393 ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🎓 student: dark skin tone  
1F9D1 200D 1F3EB ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🏫 teacher  
1F9D1 1F3FB 200D 1F3EB ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🏫 teacher: light skin tone  
1F9D1 1F3FC 200D 1F3EB ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🏫 teacher: medium-light skin tone  
1F9D1 1F3FD 200D 1F3EB ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🏫 teacher: medium skin tone  
1F9D1 1F3FE 200D 1F3EB ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🏫 teacher: medium-dark skin tone  
1F9D1 1F3FF 200D 1F3EB ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🏫 teacher: dark skin tone  
1F9D1 200D 2696 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻⚖️ judge  
1F9D1 1F3FB 200D 2696 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻⚖️ judge: light skin tone  
1F9D1 1F3FC 200D 2696 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻⚖️ judge: medium-light skin tone  
1F9D1 1F3FD 200D 2696 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻⚖️ judge: medium skin tone  
1F9D1 1F3FE 200D 2696 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻⚖️ judge: medium-dark skin tone  
1F9D1 1F3FF 200D 2696 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻⚖️ judge: dark skin tone  
1F9D1 200D 1F33E ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🌾 farmer  
1F9D1 1F3FB 200D 1F33E ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🌾 farmer: light skin tone  
1F9D1 1F3FC 200D 1F33E ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🌾 farmer: medium-light skin tone  
1F9D1 1F3FD 200D 1F33E ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🌾 farmer: medium skin tone  
1F9D1 1F3FE 200D 1F33E ; Emoji\_Zwj\_Sequence # 12.1 🧑🏻🌾 farmer: medium-dark skin tone



1F9D1 1F3FF 200D 1F33E ; Emoji\_Zwj\_Sequence # 12.1  farmer: dark skin tone  
1F9D1 200D 1F373 ; Emoji\_Zwj\_Sequence # 12.1  cook  
1F9D1 1F3FB 200D 1F373 ; Emoji\_Zwj\_Sequence # 12.1  cook: light skin tone  
1F9D1 1F3FC 200D 1F373 ; Emoji\_Zwj\_Sequence # 12.1  cook: medium-light skin tone  
1F9D1 1F3FD 200D 1F373 ; Emoji\_Zwj\_Sequence # 12.1  cook: medium skin tone  
1F9D1 1F3FE 200D 1F373 ; Emoji\_Zwj\_Sequence # 12.1  cook: medium-dark skin tone  
1F9D1 1F3FF 200D 1F373 ; Emoji\_Zwj\_Sequence # 12.1  cook: dark skin tone  
1F9D1 200D 1F527 ; Emoji\_Zwj\_Sequence # 12.1  mechanic  
1F9D1 1F3FB 200D 1F527 ; Emoji\_Zwj\_Sequence # 12.1  mechanic: light skin tone  
1F9D1 1F3FC 200D 1F527 ; Emoji\_Zwj\_Sequence # 12.1  mechanic: medium-light skin tone  
1F9D1 1F3FD 200D 1F527 ; Emoji\_Zwj\_Sequence # 12.1  mechanic: medium skin tone  
1F9D1 1F3FE 200D 1F527 ; Emoji\_Zwj\_Sequence # 12.1  mechanic: medium-dark skin tone  
1F9D1 1F3FF 200D 1F527 ; Emoji\_Zwj\_Sequence # 12.1  mechanic: dark skin tone  
1F9D1 200D 1F3ED ; Emoji\_Zwj\_Sequence # 12.1  factory worker  
1F9D1 1F3FB 200D 1F3ED ; Emoji\_Zwj\_Sequence # 12.1  factory worker: light skin tone  
1F9D1 1F3FC 200D 1F3ED ; Emoji\_Zwj\_Sequence # 12.1  factory worker: medium-light skin tone  
1F9D1 1F3FD 200D 1F3ED ; Emoji\_Zwj\_Sequence # 12.1  factory worker: medium skin tone  
1F9D1 1F3FE 200D 1F3ED ; Emoji\_Zwj\_Sequence # 12.1  factory worker: medium-dark skin tone  
1F9D1 1F3FF 200D 1F3ED ; Emoji\_Zwj\_Sequence # 12.1  factory worker: dark skin tone  
1F9D1 200D 1F4BC ; Emoji\_Zwj\_Sequence # 12.1  office worker  
1F9D1 1F3FB 200D 1F4BC ; Emoji\_Zwj\_Sequence # 12.1  office worker: light skin tone  
1F9D1 1F3FC 200D 1F4BC ; Emoji\_Zwj\_Sequence # 12.1  office worker: medium-light skin tone  
1F9D1 1F3FD 200D 1F4BC ; Emoji\_Zwj\_Sequence # 12.1  office worker: medium skin tone  
1F9D1 1F3FE 200D 1F4BC ; Emoji\_Zwj\_Sequence # 12.1  office worker: medium-dark skin tone  
1F9D1 1F3FF 200D 1F4BC ; Emoji\_Zwj\_Sequence # 12.1  office worker: dark skin tone  
1F9D1 200D 1F52C ; Emoji\_Zwj\_Sequence # 12.1  scientist  
1F9D1 1F3FB 200D 1F52C ; Emoji\_Zwj\_Sequence # 12.1  scientist: light skin tone  
1F9D1 1F3FC 200D 1F52C ; Emoji\_Zwj\_Sequence # 12.1  scientist: medium-light skin tone  
1F9D1 1F3FD 200D 1F52C ; Emoji\_Zwj\_Sequence # 12.1  scientist: medium skin tone  
1F9D1 1F3FE 200D 1F52C ; Emoji\_Zwj\_Sequence # 12.1  scientist: medium-dark skin tone

1F9D1 1F3FF 200D 1F52C ; Emoji\_Zwj\_Sequence # 12.1 🧑🔬 scientist: dark skin tone  
1F9D1 200D 1F4BB ; Emoji\_Zwj\_Sequence # 12.1 🧑💻 technologist  
1F9D1 1F3FB 200D 1F4BB ; Emoji\_Zwj\_Sequence # 12.1 🧑💻 technologist: light skin tone  
1F9D1 1F3FC 200D 1F4BB ; Emoji\_Zwj\_Sequence # 12.1 🧑💻 technologist: medium-light skin tone  
1F9D1 1F3FD 200D 1F4BB ; Emoji\_Zwj\_Sequence # 12.1 🧑💻 technologist: medium skin tone  
1F9D1 1F3FE 200D 1F4BB ; Emoji\_Zwj\_Sequence # 12.1 🧑💻 technologist: medium-dark skin tone  
1F9D1 1F3FF 200D 1F4BB ; Emoji\_Zwj\_Sequence # 12.1 🧑💻 technologist: dark skin tone  
1F9D1 200D 1F3A4 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎤 singer  
1F9D1 1F3FB 200D 1F3A4 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎤 singer: light skin tone  
1F9D1 1F3FC 200D 1F3A4 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎤 singer: medium-light skin tone  
1F9D1 1F3FD 200D 1F3A4 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎤 singer: medium skin tone  
1F9D1 1F3FE 200D 1F3A4 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎤 singer: medium-dark skin tone  
1F9D1 1F3FF 200D 1F3A4 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎤 singer: dark skin tone  
1F9D1 200D 1F3A8 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎨 artist  
1F9D1 1F3FB 200D 1F3A8 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎨 artist: light skin tone  
1F9D1 1F3FC 200D 1F3A8 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎨 artist: medium-light skin tone  
1F9D1 1F3FD 200D 1F3A8 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎨 artist: medium skin tone  
1F9D1 1F3FE 200D 1F3A8 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎨 artist: medium-dark skin tone  
1F9D1 1F3FF 200D 1F3A8 ; Emoji\_Zwj\_Sequence # 12.1 🧑🎨 artist: dark skin tone  
1F9D1 200D 2708 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑✈️ pilot  
1F9D1 1F3FB 200D 2708 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑✈️ pilot: light skin tone  
1F9D1 1F3FC 200D 2708 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑✈️ pilot: medium-light skin tone  
1F9D1 1F3FD 200D 2708 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑✈️ pilot: medium skin tone  
1F9D1 1F3FE 200D 2708 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑✈️ pilot: medium-dark skin tone  
1F9D1 1F3FF 200D 2708 FE0F ; Emoji\_Zwj\_Sequence # 12.1 🧑✈️ pilot: dark skin tone  
1F9D1 200D 1F680 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚀 astronaut  
1F9D1 1F3FB 200D 1F680 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚀 astronaut: light skin tone  
1F9D1 1F3FC 200D 1F680 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚀 astronaut: medium-light skin tone  
1F9D1 1F3FD 200D 1F680 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚀 astronaut: medium skin tone  
1F9D1 1F3FE 200D 1F680 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚀 astronaut: medium-dark skin tone  
1F9D1 1F3FF 200D 1F680 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚀 astronaut: dark skin tone



1F9D1 200D 1F692 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚒 firefighter

1F9D1 1F3FB 200D 1F692 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚒 firefighter: light skin tone

1F9D1 1F3FC 200D 1F692 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚒 firefighter: medium-light skin tone

1F9D1 1F3FD 200D 1F692 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚒 firefighter: medium skin tone

1F9D1 1F3FE 200D 1F692 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚒 firefighter: medium-dark skin tone

1F9D1 1F3FF 200D 1F692 ; Emoji\_Zwj\_Sequence # 12.1 🧑🚒 firefighter: dark skin tone

1F9D1 200D 1F9AF ; Emoji\_Zwj\_Sequence # 12.1 👤 person with probing cane

1F9D1 1F3FB 200D 1F9AF ; Emoji\_Zwj\_Sequence # 12.1 👤 person with probing cane: light skin tone

1F9D1 1F3FC 200D 1F9AF ; Emoji\_Zwj\_Sequence # 12.1 👤 person with probing cane: medium-light skin tone

1F9D1 1F3FD 200D 1F9AF ; Emoji\_Zwj\_Sequence # 12.1 👤 person with probing cane: medium skin tone

1F9D1 1F3FE 200D 1F9AF ; Emoji\_Zwj\_Sequence # 12.1 👤 person with probing cane: medium-dark skin tone

1F9D1 1F3FF 200D 1F9AF ; Emoji\_Zwj\_Sequence # 12.1 👤 person with probing cane: dark skin tone

1F9D1 200D 1F9BC ; Emoji\_Zwj\_Sequence # 12.1 🦽 person in motorized wheelchair

1F9D1 1F3FB 200D 1F9BC ; Emoji\_Zwj\_Sequence # 12.1 🦽 person in motorized wheelchair: light skin tone

1F9D1 1F3FC 200D 1F9BC ; Emoji\_Zwj\_Sequence # 12.1 🦽 person in motorized wheelchair: medium-light skin tone

1F9D1 1F3FD 200D 1F9BC ; Emoji\_Zwj\_Sequence # 12.1 🦽 person in motorized wheelchair: medium skin tone

1F9D1 1F3FE 200D 1F9BC ; Emoji\_Zwj\_Sequence # 12.1 🦽 person in motorized wheelchair: medium-dark skin tone

1F9D1 1F3FF 200D 1F9BC ; Emoji\_Zwj\_Sequence # 12.1 🦽 person in motorized wheelchair: dark skin tone

1F9D1 200D 1F9BD ; Emoji\_Zwj\_Sequence # 12.1 🦿 person in manual wheelchair

1F9D1 1F3FB 200D 1F9BD ; Emoji\_Zwj\_Sequence # 12.1 🦿 person in manual wheelchair: light skin tone

1F9D1 1F3FC 200D 1F9BD ; Emoji\_Zwj\_Sequence # 12.1 🦿 person in manual wheelchair: medium-light skin tone

1F9D1 1F3FD 200D 1F9BD ; Emoji\_Zwj\_Sequence # 12.1 🦿 person in manual wheelchair: medium skin tone

1F9D1 1F3FE 200D 1F9BD ; Emoji\_Zwj\_Sequence # 12.1 🦿 person in manual wheelchair: medium-dark skin tone

1F9D1 1F3FF 200D 1F9BD ; Emoji\_Zwj\_Sequence# 12.1 🦿 person in manual wheelchair: dark skin tone

# Future Considerations

There are other emojis worth exploring with specific sequences which may be considered or proposed at a later date.

Conceivably they could be grouped into three sets:

1. Object + Person (New Patterns)
2. Gender sign ZWJ sequences
3. Emojis that may require a unique codepoint