Proposal for Consistent Gender Options for Emoji ZWJ Sequences

From: Jennifer Daniel and the Emoji Subcommittee (ESC)
To: Unicode Technical Committee (UTC)
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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. CODE Unicode 13.0 ZWJ Background
4. L2/17-071 Add Emoji Gender Properties
5. L2/16-160 Expanding Emoji Professions: Reducing Gender Inequality
6. L2/15-048 Adding gender counterparts to emoji list?
7. L2/17-287 ESC Recommendations
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
<table>
<thead>
<tr>
<th>№</th>
<th>IMG</th>
<th>TYPE</th>
<th>SUBTYPE</th>
<th>ZWJ</th>
<th>NAME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍⚕️</td>
<td>health worker</td>
</tr>
<tr>
<td>2</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍⚖️</td>
<td>judge</td>
</tr>
<tr>
<td>3</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍✈️</td>
<td>pilot</td>
</tr>
<tr>
<td>4</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🌾</td>
<td>farmer</td>
</tr>
<tr>
<td>5</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🍳</td>
<td>cook</td>
</tr>
<tr>
<td>6</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🎓</td>
<td>student</td>
</tr>
<tr>
<td>7</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🎤</td>
<td>singer</td>
</tr>
<tr>
<td>8</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🎨</td>
<td>artist</td>
</tr>
<tr>
<td>9</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🏫</td>
<td>teacher</td>
</tr>
<tr>
<td>10</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🏭</td>
<td>Factory worker</td>
</tr>
<tr>
<td>11</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍💻</td>
<td>technologist</td>
</tr>
<tr>
<td>12</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍💼</td>
<td>Office worker</td>
</tr>
<tr>
<td>13</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🔧</td>
<td>mechanic</td>
</tr>
<tr>
<td>14</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🔬</td>
<td>scientist</td>
</tr>
<tr>
<td>15</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🚀</td>
<td>astronaut</td>
</tr>
<tr>
<td>16</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍🚒</td>
<td>firefighter</td>
</tr>
<tr>
<td>17</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍ürnberg</td>
<td>Person in manual wheelchair</td>
</tr>
<tr>
<td>18</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍缤纷</td>
<td>Person with probing cane</td>
</tr>
<tr>
<td>19</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>role</td>
<td>👨‍motorized</td>
<td>Person in motorized wheelchair</td>
</tr>
<tr>
<td>20</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>hair</td>
<td>👨‍卷发</td>
<td>Person: Curly Hair</td>
</tr>
<tr>
<td>21</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>hair</td>
<td>👨‍禿顶</td>
<td>Person: Bald</td>
</tr>
<tr>
<td>22</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>hair</td>
<td>👨‍红发</td>
<td>Person: Red Hair</td>
</tr>
<tr>
<td>23</td>
<td><img src="https://via.placeholder.com/15" alt="Person-Object" /></td>
<td>Person-Object</td>
<td>hair</td>
<td>👨‍白发</td>
<td>Person: White Hair</td>
</tr>
</tbody>
</table>
Proposed ZWJ Sequences


# Emoji_ZWJ_Sequence: Role

1F9D1 200D 2695 FE0F ; Emoji_ZWJ_Sequence ; health worker

1F9D1 200D 2696 FE0F ; Emoji_ZWJ_Sequence ; judge

1F9D1 200D 2708 FE0F ; Emoji_ZWJ_Sequence ; pilot

1F9D1 200D 1F33E ; Emoji_ZWJ_Sequence ; farmer

1F9D1 200D 1F373 ; Emoji_ZWJ_Sequence ; cook

1F9D1 200D 1F393 ; Emoji_ZWJ_Sequence ; student

1F9D1 200D 1F3A4 ; Emoji_ZWJ_Sequence ; singer

1F9D1 200D 1F3A8 ; Emoji_ZWJ_Sequence ; artist

1F9D1 200D 1F3EB ; Emoji_ZWJ_Sequence ; teacher

1F9D1 200D 1F3ED ; Emoji_ZWJ_Sequence ; factory worker

1F9D1 200D 1F4BB ; Emoji_ZWJ_Sequence ; technologist

1F9D1 200D 1F4BC ; Emoji_ZWJ_Sequence ; office worker

1F9D1 200D 1F527 ; Emoji_ZWJ_Sequence ; mechanic

1F9D1 200D 1F52C ; Emoji_ZWJ_Sequence ; scientist

1F9D1 200D 1F680 ; Emoji_ZWJ_Sequence ; astronaut

1F9D1 200D 1F692 ; Emoji_ZWJ_Sequence ; firefighter

1F9D1 1F9AF ; Emoji_ZWJ_Sequence ; person with probing cane

1F9D1 1F9BC ; Emoji_ZWJ_Sequence ; person in motorized wheelchair

1F9D1 1F9BD ; Emoji_ZWJ_Sequence ; person in manual wheelchair

1F9D1 1F3FB 200D 2695 FE0F ; Emoji_ZWJ_Sequence ; health worker: light skin tone

1F9D1 1F3FB 200D 2696 FE0F ; Emoji_ZWJ_Sequence ; judge: light skin tone

1F9D1 1F3FB 200D 2708 FE0F ; Emoji_ZWJ_Sequence ; pilot: light skin tone

1F9D1 1F3FB 200D 1F33E ; Emoji_ZWJ_Sequence ; farmer: light skin tone
factory worker: medium-dark skin tone

technologist: medium-dark skin tone

office worker: medium-dark skin tone

mechanic: medium-dark skin tone

scientist: medium-dark skin tone

astronaut: medium-dark skin tone

firefighter: medium-dark skin tone

with probing cane: medium-dark skin tone

person in motorized wheelchair: medium-dark skin tone

person in manual wheelchair: medium-dark skin tone

health worker: dark skin tone

judge: dark skin tone

pilot: dark skin tone

farmer: dark skin tone

cook: dark skin tone

student: dark skin tone

singer: dark skin tone

artist: dark skin tone

teacher: dark skin tone

factory worker: dark skin tone

technologist: dark skin tone

office worker: dark skin tone

mechanic: dark skin tone

scientist: dark skin tone

astronaut: dark skin tone

firefighter: dark skin tone

with probing cane: dark skin tone

person in motorized wheelchair: dark skin tone

person in manual wheelchair: dark skin tone
# Emoji_ZWJ_Sequence: Hair

1F9D1 200D 1F9B0 ; Emoji_ZWJ_Sequence ; person: red hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B1 ; Emoji_ZWJ_Sequence ; person: curly hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B2 ; Emoji_ZWJ_Sequence ; person: bald
1F9D1 200D 1F9B3 ; Emoji_ZWJ_Sequence ; person: white hair
1F9D1 200D 1F9B0 ; Emoji_ZWJ_Sequence ; person: light skin tone, red hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B1 ; Emoji_ZWJ_Sequence ; person: light skin tone, curly hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B2 ; Emoji_ZWJ_Sequence ; person: light skin tone, bald
1F9D1 200D 1F9B3 ; Emoji_ZWJ_Sequence ; person: light skin tone, white hair
1F9D1 200D 1F9B0 ; Emoji_ZWJ_Sequence ; person: medium-light skin tone, red hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B1 ; Emoji_ZWJ_Sequence ; person: medium-light skin tone, curly hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B2 ; Emoji_ZWJ_Sequence ; person: medium-light skin tone, bald
1F9D1 200D 1F9B3 ; Emoji_ZWJ_Sequence ; person: medium-light skin tone, white hair
1F9D1 200D 1F9B0 ; Emoji_ZWJ_Sequence ; person: medium skin tone, red hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B1 ; Emoji_ZWJ_Sequence ; person: medium skin tone, curly hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B2 ; Emoji_ZWJ_Sequence ; person: medium skin tone, bald
1F9D1 200D 1F9B3 ; Emoji_ZWJ_Sequence ; person: medium skin tone, white hair
1F9D1 200D 1F9B0 ; Emoji_ZWJ_Sequence ; person: dark skin tone, red hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B1 ; Emoji_ZWJ_Sequence ; person: dark skin tone, curly hair
# 13.0 [1] (_heads
1F9D1 200D 1F9B2 ; Emoji_ZWJ_Sequence ; person: dark skin tone, bald
1F9D1 200D 1F9B3 ; Emoji_ZWJ_Sequence ; person: dark skin tone, white hair
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