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. **CODE** Unicode 13.0 ZWJ Background

3. **L2/17-232** Proposal for Fully Gender-Inclusive Emoji

4. **L2/17-071** Add Emoji Gender Properties

5. **L2/16-160** Expanding Emoji Professions: Reducing Gender Inequality

6. **L2/180** 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="health-worker" alt="health worker" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+⚕️</td>
<td>health worker</td>
</tr>
<tr>
<td>2</td>
<td><img src="judge" alt="judge" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+⚖️</td>
<td>judge</td>
</tr>
<tr>
<td>3</td>
<td><img src="pilot" alt="pilot" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+✈️</td>
<td>pilot</td>
</tr>
<tr>
<td>4</td>
<td><img src="farmer" alt="farmer" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🌾</td>
<td>farmer</td>
</tr>
<tr>
<td>5</td>
<td><img src="cook" alt="cook" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🍳</td>
<td>cook</td>
</tr>
<tr>
<td>6</td>
<td><img src="student" alt="student" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🎓</td>
<td>student</td>
</tr>
<tr>
<td>7</td>
<td><img src="singer" alt="singer" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🎤</td>
<td>singer</td>
</tr>
<tr>
<td>8</td>
<td><img src="artist" alt="artist" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🎨</td>
<td>artist</td>
</tr>
<tr>
<td>9</td>
<td><img src="teacher" alt="teacher" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🏫</td>
<td>teacher</td>
</tr>
<tr>
<td>10</td>
<td>![Factory worker](Factory worker)</td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🏭</td>
<td>Factory worker</td>
</tr>
<tr>
<td>11</td>
<td><img src="technologist" alt="technologist" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+💻</td>
<td>technologist</td>
</tr>
<tr>
<td>12</td>
<td>![Office worker](Office worker)</td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+💼</td>
<td>Office worker</td>
</tr>
<tr>
<td>13</td>
<td><img src="mechanic" alt="mechanic" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🔧</td>
<td>mechanic</td>
</tr>
<tr>
<td>14</td>
<td><img src="scientist" alt="scientist" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🔍</td>
<td>scientist</td>
</tr>
<tr>
<td>15</td>
<td><img src="astronaut" alt="astronaut" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🚀</td>
<td>astronaut</td>
</tr>
<tr>
<td>16</td>
<td><img src="firefighter" alt="firefighter" /></td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+🚒</td>
<td>firefighter</td>
</tr>
<tr>
<td>17</td>
<td>![Person in manual wheelchair](Person in manual wheelchair)</td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+无障碍</td>
<td>Person in manual wheelchair</td>
</tr>
<tr>
<td>18</td>
<td>![Person with probing cane](Person with probing cane)</td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+盲杖</td>
<td>Person with probing cane</td>
</tr>
<tr>
<td>19</td>
<td>![Person in motorized wheelchair](Person in motorized wheelchair)</td>
<td>Person-Object</td>
<td>role</td>
<td>🧫+无障碍</td>
<td>Person in motorized wheelchair</td>
</tr>
<tr>
<td>20</td>
<td>![Person: Curly Hair](Person: Curly Hair)</td>
<td>Person-Object</td>
<td>hair</td>
<td>🧫+-curly</td>
<td>Person: Curly Hair</td>
</tr>
<tr>
<td>21</td>
<td>![Person: Bald](Person: Bald)</td>
<td>Person-Object</td>
<td>hair</td>
<td>🧫+秃顶</td>
<td>Person: Bald</td>
</tr>
<tr>
<td>22</td>
<td>![Person: Red Hair](Person: Red Hair)</td>
<td>Person-Object</td>
<td>hair</td>
<td>🧫+红发</td>
<td>Person: Red Hair</td>
</tr>
<tr>
<td>23</td>
<td>![Person: White Hair](Person: White Hair)</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

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1F9D1 200D 1F9B0</td>
<td>person: red hair</td>
</tr>
<tr>
<td>1F9D1 1F3FB 200D 1F9B0</td>
<td>person: light skin tone, red hair</td>
</tr>
<tr>
<td>1F9D1 1F3FC 200D 1F9B0</td>
<td>person: medium-light skin tone, red hair</td>
</tr>
<tr>
<td>1F9D1 1F3FD 200D 1F9B0</td>
<td>person: medium skin tone, red hair</td>
</tr>
<tr>
<td>1F9D1 1F3FE 200D 1F9B0</td>
<td>person: medium-dark skin tone, red hair</td>
</tr>
<tr>
<td>1F9D1 1F3FF 200D 1F9B0</td>
<td>person: dark skin tone, red hair</td>
</tr>
<tr>
<td>1F9D1 200D 1F9B1</td>
<td>person: curly hair</td>
</tr>
<tr>
<td>1F9D1 1F3FB 200D 1F9B1</td>
<td>person: light skin tone, curly hair</td>
</tr>
<tr>
<td>1F9D1 1F3FC 200D 1F9B1</td>
<td>person: medium-light skin tone, curly hair</td>
</tr>
<tr>
<td>1F9D1 1F3FD 200D 1F9B1</td>
<td>person: medium skin tone, curly hair</td>
</tr>
<tr>
<td>1F9D1 1F3FE 200D 1F9B1</td>
<td>person: medium-dark skin tone, curly hair</td>
</tr>
<tr>
<td>1F9D1 1F3FF 200D 1F9B1</td>
<td>person: dark skin tone, curly hair</td>
</tr>
<tr>
<td>1F9D1 200D 1F9B3</td>
<td>person: white hair</td>
</tr>
<tr>
<td>1F9D1 1F3FB 200D 1F9B3</td>
<td>person: light skin tone, white hair</td>
</tr>
<tr>
<td>1F9D1 1F3FC 200D 1F9B3</td>
<td>person: medium-light skin tone, white hair</td>
</tr>
<tr>
<td>1F9D1 1F3FD 200D 1F9B3</td>
<td>person: medium skin tone, white hair</td>
</tr>
<tr>
<td>1F9D1 1F3FE 200D 1F9B3</td>
<td>person: medium-dark skin tone, white hair</td>
</tr>
<tr>
<td>1F9D1 1F3FF 200D 1F9B3</td>
<td>person: dark skin tone, white hair</td>
</tr>
<tr>
<td>1F9D1 200D 1F9B2</td>
<td>person: bald</td>
</tr>
<tr>
<td>1F9D1 1F3FB 200D 1F9B2</td>
<td>person: light skin tone, bald</td>
</tr>
<tr>
<td>1F9D1 1F3FC 200D 1F9B2</td>
<td>person: medium-light skin tone, bald</td>
</tr>
<tr>
<td>1F9D1 1F3FD 200D 1F9B2</td>
<td>person: medium skin tone, bald</td>
</tr>
<tr>
<td>1F9D1 1F3FE 200D 1F9B2</td>
<td>person: medium-dark skin tone, bald</td>
</tr>
</tbody>
</table>
person: dark skin tone, bald
health worker
health worker: light skin tone
health worker: medium-light skin tone
health worker: medium skin tone
health worker: medium-dark skin tone
health worker: dark skin tone
student
student: light skin tone
student: medium-light skin tone
student: medium skin tone
student: medium-dark skin tone
student: dark skin tone
teacher
teacher: light skin tone
teacher: medium-light skin tone
teacher: medium skin tone
teacher: medium-dark skin tone
teacher: dark skin tone
judge
judge: light skin tone
judge: medium-light skin tone
judge: medium skin tone
judge: medium-dark skin tone
judge: dark skin tone
farmer
farmer: light skin tone
farmer: medium-light skin tone
farmer: medium skin tone
farmer: medium-dark skin tone
farmer: dark skin tone

cook: light skin tone

cook: medium-light skin tone

cook: medium skin tone

cook: medium-dark skin tone

cook: dark skin tone

mechanic: light skin tone

mechanic: medium-light skin tone

mechanic: medium skin tone

mechanic: medium-dark skin tone

mechanic: dark skin tone

factory worker: light skin tone

factory worker: medium-light skin tone

factory worker: medium skin tone

factory worker: medium-dark skin tone

factory worker: dark skin tone

office worker: light skin tone

office worker: medium-light skin tone

office worker: medium skin tone

office worker: medium-dark skin tone

office worker: dark skin tone

scientist: light skin tone

scientist: medium skin tone

scientist: medium-dark skin tone
scientist: dark skin tone

technologist

technologist: light skin tone

technologist: medium-light skin tone

technologist: medium skin tone

technologist: medium-dark skin tone

technologist: dark skin tone

singer

singer: light skin tone

singer: medium-light skin tone

singer: medium skin tone

singer: medium-dark skin tone

singer: dark skin tone

artist

artist: light skin tone

artist: medium-light skin tone

artist: medium skin tone

artist: medium-dark skin tone

artist: dark skin tone

pilot

pilot: light skin tone

pilot: medium-light skin tone

pilot: medium skin tone

pilot: medium-dark skin tone

pilot: dark skin tone

astronaut

astronaut: light skin tone

astronaut: medium-light skin tone

astronaut: medium skin tone

astronaut: medium-dark skin tone

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