## Supporting Information

Stivers et al. 10.1073/pnas. 0903616106
Response Timing Distribution by Type


Fig. S1. Distribution of next turn offsets comparing question-response sequences with other sorts of turns in dyadic Dutch data. In a corpus of 1,521 turn transitions in continuous Dutch conversation we found no significant difference between the mean and variance of response times after questions and nonquestions $[\mathrm{t}(1519)=-6.57, P=0.51]$.

Table S1. Overview of languages

| Language | Language group |  |
| :--- | :--- | :--- |
| $\ddagger$ Ākhoe Hai\\|om (Namibia) | Khoisan |  |
| Danish | Germanic | Hoymann |
| Dutch | Germanic | Heinemann |
| English (United States) | Germanic | Stivers |
| Italian | Romance |  |
| Japanese | Isolate | Rossano |
| Korean | Ural-Altaic | Yoon |
| Lao | Tai | Enfield |
| Tzeltal (Mexico) | Mayan | Brown |
| Yélî-Dnye (Papua New Guinea) | Isolate | Levinson |

Table S2. Overview of coding categories

| Element | Explanation | Examples from data |
| :---: | :---: | :---: |
| Yes-no questions | Utterances declaring speaker's lack of knowledge and/or asking for an addressee's provision of information-either confirmation or disconfirmation. | i. Are any of 'em cute? <br> ii. Are they hippies? <br> iii. At thuh place on State Street? <br> iv. Oh so they raised thuh deposit too? |
| Nonanswer response | A response that does not provide requested information but does deal with the request for information in some way. | i. I don't know. <br> ii. What? <br> iii. (shrug) <br> iv. Maybe. |
| Answer | Directly provides information/confirmation requested in the question. | i. (head nod) <br> ii. No (head shake) <br> iii. It does. |
| Visible component | If all or part of the response is kinesic. | i. Yeah (head nod) <br> ii. (head shake) <br> iii. (shrug) |
| Speaker gaze | Speaker gazes towards recipient during question and this can be seen by recipient. | (gaze to recipient) |
| Confirmation | Answer that agrees with the questioner's underlying proposition. (e.g., "Did you go shopping" has an underlying proposition that "you went shopping"). | After an affirmative question e.g., Did you go shopping? <br> i. Yeah. <br> ii. (head nod) <br> iii. I did. <br> iv. Uh huh |
| Disconfirmation | Answers that disagree with the questioner's underlying proposition. | After an affirmative question <br> i. No (head shake) <br> ii. Not the whole morning no. <br> iii. No I didn't. |
| Information request | If the primary function of the utterance is to secure confirmation or disconfirmation (as a sort of information) even if utterance has another function as well. | i. Does she have to wear the little clogs and the white outfits? <br> ii. Did he just tell you that right now? <br> iii. Can you tell I'm looking at your mouth? |
| Noninformation requests | Utterances primarily performing other functions such as repairing understanding, challenging, or assessing someone/something. | i. You are? <br> ii. Really? <br> iii. That's kind of a lot for breakfast don't you think? |

Table S3. Mean, median, mode and standard deviation by language

| Language | Mean | Median | Mode |
| :--- | ---: | ---: | ---: |
| $\ddagger$ Ākhoe Hai\\|om | 423.16 | 300 | 200 |
| Danish | 468.88 | 300 | 100 |
| Dutch | 108.93 | 100 | 100 |
| English | 236.07 | 0 | 0 |
| Italian | 309.94 | 200 | 100 |
| Japanese | 7.29 | 0 | 100 |
| Korean | 182.56 | 100 | 0 |
| Lao | 419.63 | 300 | 57.47 |
| Tzeltal | 67.13 | 0 | 519.81 |
| Yélî-Dnye | 71.26 | 0 | 0.45 |

Table S4. Overview of data by language

| Language | Yes/no questions, $N$ | Response given, \% | Answer (vs. nonanswer) \% of all responses | Confirm (vs. not), \% of all answers | With visible (vs. not), \% of all answers | With questioner gaze to recipient (vs. not), \% of answers | Information request only, \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\ddagger$ Ākhoe Hail\|om | 95 | 80 | 76 | 75 | 21 | 21 | 42 |
| Danish | 196 | 87 | 75 | 71 | 37 | 75 | 30 |
| Dutch | 224 | 96 | 87 | 81 | 41 | 75 | 16 |
| English | 219 | 95 | 84 | 71 | 42 | 68 | 30 |
| Italian | 181 | 90 | 78 | 76 | 60 | 76 | 32 |
| Japanese | 247 | 89 | 67 | 81 | 54 | 88 | 30 |
| Korean | 195 | 90 | 64 | 70 | 34 | 71 | 21 |
| Lao | 163 | 73 | 82 | 77 | 27 | 63 | 30 |
| Tzeltal | 216 | 93 | 85 | 84 | 26 | 50 | 35 |
| Yélî-Dnye | 174 | 88 | 87 | 89 | 58 | 75 | 48 |

Table S5. Results of 2 sample $t$ tests graphically represented in Figs. 3 and 4

| Language | Difference between answer vs. nonanswer | Difference between confirm vs. disconfirm |
| :--- | :--- | :--- |
| $\ddagger$ Ākhoe Hai\\|om | $267.75 \mathrm{~ms}, t(93)=1.71^{*}$ | $122.22 \mathrm{~ms}, t(70)=.77$ |
| Danish | $433.33 \mathrm{~ms}, t(194)=4.54^{* * *}$ | $394.34 \mathrm{~ms}, t(145)=4.35 * * *$ |
| Dutch | $314.55 \mathrm{~ms}, t(222)=3.4^{* * * *}$ | $127.74 \mathrm{~ms}, t(193)=1.52$ |
| English | $492.03 \mathrm{~ms}, t(217)=5.53^{* * *}$ | $323.37 \mathrm{~ms}, t(181)=4.85 * * *$ |
| Italian | $301.08 \mathrm{~ms}, t(179)=3.14^{* * *}$ | $304.25 \mathrm{~ms}, t(140)=2.97 * *$ |
| Japanese | $264.7 \mathrm{~ms}, t(245)=3.99^{* * *}$ | $157.28 \mathrm{~ms}, t(164)=1.76 *$ |
| Korean | $147.54 \mathrm{~ms}, t(193)=1.96^{*}$ | $116.27 \mathrm{~ms}, t(123)=1.31$ |
| Lao | $240.38 \mathrm{~ms}, t(161)=2.44^{* *}$ | $508.52 \mathrm{~ms}, t(132)=5.70^{* * *}$ |
| Tzeltal | $317.39 \mathrm{~ms}, t(214)=3.78^{* * *}$ | $193.08 \mathrm{~ms}, t(182)=2.34 * *$ |
| Yélî-Dnye | $251.44 \mathrm{~ms}, t(172)=3.04^{* *}$ | $220.48 \mathrm{~ms}, t(150)=3.23^{* * *}$ |

Difference in means, degrees of freedom, and $t$ values are shown. *, $P \leq 0.05 ; * *, P \leq 0.01 ; * * *, P \leq 0.001$.

Table S6. Results of 2 sample $t$ tests graphically represented in Figs. 5 and 6

| Language | Difference between with visible vs. without | Difference between with speaker gaze vs. without |
| :--- | :---: | ---: |
| $\ddagger$ Ākhoe Hai\\|om | $430.43, t(75)=2.18^{*}$ | $119.91, t(80)=0.62$ |
| Danish | $39.36, t(191)=0.43$ | $-89.12, t(194)=-0.89$ |
| Dutch | $291.28, t(204)=4.57 * * *$ | $77.45, t(222)=1.06$ |
| English | $281.88, t(209)=3.97 * * *$ | $190.55, t(217)=2.56 * *$ |
| Italian | $133.4, t(179)=1.63^{*}$ | $212.67, t(179)=2.27 * *$ |
| Japanese | $279.98, t(243)=4.49 * * *$ | $90.35, t(245)=0.92$ |
| Korean | $208.57, t(186)=2.73^{* *}$ | $157.23, t(193)=1.98 *$ |
| Lao | $290.62, t(142)=3.58^{* * *}$ | $193.92, t(161)=2.49 * *$ |
| Tzeltal | $33.7, t(198)=0.42$ | $88.58, t(214)=1.44$ |
| Yélî-Dnye | $63.54, t(164)=1.07$ | $201.88, t(172)=3.17 * * *$ |

Difference in means, degrees of freedom, and $t$ values are shown. *, $P \leq 0.05 ; * *, P \leq 0.01 ; * * *, P \leq 0.001$.

