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Notes on a Possible Metric which Provides for a 'Standard Maximum' Silence of Approximately One Second in Conversation

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With an appended glossary of transcript symbols

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Preliminary Notes on a Possible Metric
which Provides for a 'Standard Maximum' Silence
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0. Introduction

For most of the eighteen years that I have been producing transcripts for the analysis of naturally-occurring conversation, I have been timing silences by tenths of seconds. While I try to be accurate, I have not given particular attention to the phenomenon of silence, per se, and have been content with rough timings. (So, for example, I started out using a stopwatch but sometime in 1968 it broke and instead of replacing it I switched over to the method favored by amateur photographers, simply mumbling "no one thousand, one one thousand, two one thousand," etcetera.) And while many regularities have emerged from more or less unmotivated scanning of the materials, over the years I haven't noticed any of particular interest by reference to the silences.

One possible reason that unmotivated scanning did not turn up any silence-relevant regularities is that silences in conversation occur in such a range of sizes. For example, in the following array of Intra-Utterance silences following an "UH", there are silences of from approximately two-tenths second to approximately two and seven-

tenths seconds.

(1) [GTS:I:2:3:R:3:SO] ((face-to-face))

Ken: And then I work (.) I work at Jake's Jug and I go in there and I: uh (0.2) put all the |bottles in ba:ck,

(2) [Goodwin:DP:8:R:SO] ((face-to-face))

Beth: They didn't have all the <u>colors</u>, hh The <u>orange</u> is really nice but they only had it in, hh these bowls, and uhm,

(0.5) the coffee mugs.

(3) [Rah:A:1:(6):1-2:S0] ((telephone))

Mr F: Got them sorted out the: tent's: the tent's up and everything,

Jessie: Ye:s,

Mr F: A:nd uh:m (0.6) uh I've just given them a mea:1 so: (.)
they're gonna be uh it'll keep them warm for awhile,

(4) [GTS:I:2:31:R:SO] ((face-to-face))

Roger: Do you own a ranch too,

(0.5)

Ken: \rightarrow Well my father (.) doesn't own it no, it's just uh (0.9)

at a frien, d's

Roger: ¹ Just owns the state.

(5) [Cam:7:3:SO] ((telephone))

Mac: An::d the best train we can catch is quarter past twel:ve.

(0.9)

Annie: Ye::eh,

Mac: \rightarrow Uh that gets us down there at- (.) eh:::, (1.2) ub- about half past twelve.

(6) [PB:3-4:22:S0] ((face-to-face))

Merle: It was so depressing registering for classes next quarter

- becau:se, u::m, (1.3) 'tch! (0.9) I: you know if I don't get through Oh I've got to tell you. You're gonna die
- → laughing. (0.4) Dennis and I were talking a:nd uh (1.3) hh Oh see- in September I'm gonna go over there . . .
- (7) [NB:II:2:R:8:SO] ((telephone))

Nancy: You know for all of this: u[h: inten] sive thou:ght Emma:

(.)

Nancy: bus $[\underbrace{\text{iness,h}}_{\text{M}} \underbrace{\text{m}}_{\text{i}} \underbrace{\text{hhhh}}_{\text{m}}$

(7) ctd.

Nancy: \rightarrow A::nd uhm (1.8) tch I can't remember one: (.) one of the f: kids had said in his thin:g u-something aboutt . . .

(8) [SF:II:22:S0] ((telephone))

Mark: Well who's gonna be at this party Friday night. So I can get excited about coming.

Bob: Well the old crew hopefully, "ouh"

(0.3)

(): khhh hhhh

Bob: → Uh:::: let's see. hYou know:: <u>basic</u> uh:: (2.0) uh:::oh:,hh (2.2) cre:w,

(9) [MDE:60-1:1:17:S0] ((telephone))

Sheila: How's the movie I mean is this something that you: uh

→ (2.5) you know y-ih-ih-ee- eh are- ih you feel you're f:you've been free:: enough (0.8) in in with movie; (0.2)

wor- material, type things?

(10) [Goodwin:AD:7:R:14-15:S0] ((face-to-face))

Bart: → Keegan used to race uhruh- uhr it was uh:m (0.4) used

 \rightarrow to run uh::m. (3.4) oh:::: sh::it. (0.3) uh::m, (0.4) Fisher's ca:r.

Let me note a potentially problematic feature of my silencetimings. In two of the above fragments, (6) and (7), the silences are
counted, not from speech-object to speech-object, e.g., from "uh" to a
word as in (1), (2), (4), (9) and (10), or from "uh" to "uh" as in
(0.3) and (0.8), but from "uh" to, either an inbreath, as in (6),
"Dennis and I were talking a:nd uh (1.3) 'hh", or a tongue-againstteeth click, as in (6), "becau:se, u:m, (1.3) 'tch!", and (7), "A::nd
uhm (1.8) 'tch".

I have been timing the silences that way, without thinking about it. Now that there is reason to think about it, I would want to continue this way of timing. Specifically, what can be seen is some sort of shift in activity, whether it be from silence to an utterance's

next word, or from silence to another 'pause filler', or from silence to some non-speech (or pre-speech) sound such as an inbreath or click.

There are yet longer intra-utterance silences. I do not happen to have any which fit into the above array; i.e., immediately preceded by "uh". Here are two of the longer intra-utterance silences, occurring in mid-sentence.

```
(11) [SBL:2:2:3:R:23:S0] ((telephone))
Chloe:
                I told you he went to a little slam and didn't have the
                ace king quee:n.
                        (.)
Chloe:
                't'hhhhh Now tho:w in the na:me of all that's holy.
                        (1.3)
Chloe:
                could anyo:ne, in their |right mi|*:nd.
                        \overline{(}3.0)
Chloe:
                figure (0.5) that (.) that his partner (.) 'hhhh when I
                just u-answered him u-once. which I had a (.) 'hh (.)
                ah:::: three.
Claire:
                Ye::h,
(12) [SBL:2:1:8:R:7:SO] ((telephone))
Nora:
                You know who: I thought it wa:s?
                N_{[\underline{\underline{o}};,\underline{\underline{v}}]} ist I thought it was \underline{u}:m
Bea:
Nora:
                        (0.3)
Nora:
                tch
                        (5.0)
                oh::-: |gee: uhm u-one of the women who's eh: ex president
Nora:
                of the woman's clu:b . . .
```

These two intra-sentence silences, of three and five seconds respectively, are the longest I have come across so far in materials I am comfortable about calling 'conversations'. There are yet longer intra-utterance silences in materials which I would not comfortably call 'conversations'. For example, in the following fragment, taken from a staff meeting at a medical center, during which the physician in charge of a team of nurses is reading from an agenda, we find an intra-utterance silence of sixteen seconds.

).

(13) [Agorio:67-68:S0]

Barragan: And here is (1.0) the department meetings, which is will be for instance social service and nursing, hhh who have

the <u>separate</u> meetings, the::: social service care with (.) 'hh Velma?

(0.4)

Barragan: The nurses will probably be (

(0.3) The nurses with (.) Aurora.

(0.4)

Barragan: And then he:re is, (0.8) total staff () service meeting.

(1.0)

Barragan: Hm?

(6.5)

Barragan: → I know this is not interesting but (16.0) this interesting

thing he:re, $(4.\overline{0})$ that in-involve the internal team organization and management. (2.4) And what

it said is they're going to, (.) reaffirm that the team physician is the responsible and accountable person for

the wo::rk? 'hh and overall operation of the team.

((Some of the rather odd constructions may be accounted for by the fact that Dr. Barragan had just recently arrived

from South America.))

I have shown the foregoing array to provide a glimpse of the range of silences which occur in the materials I've been transcribing over the years; materials in which no silence-relevant phenomena emerged to motivate further investigation and thus greater accuracy in the timings. The following report essentially consists of arrays of data which, it seems to me, provide glimpses of a silence-relevant phenomenon.

I. Biography of the Phenomenon

In February 1983 I was reading and making comments on an exercise in conversation analysis by my colleague in the Subfaculteit Letteren, Hanneke Houtkoop. She was working with some problematic interactional bits, and in commenting on her analyses, I would occasionally add a fragment from my own materials. Thus, a little corpus of a certain 'type' of interaction began to build up. And it was in this little corpus that a possible silence-relevant phenomenon emerged. Here is the pertinent comment, in its entirety (English translations added).

```
14. Page 3, re. "...and after the 1.3 second pause..."
Something a bit eerie is beginning to crop up in these materials:
[M-F]
       hai Maar(t), kom je ook?
F:
               (1.3)
                    ((glimlachen))
M:
       da:g Frank.
[M-F:Translation]
       Hi Maar(t), are you coming too?
              (1.3)
M:
       Hello: Frank.
                       ((smiling))
[M-S]
S:
       we:11 van Noort. vertel het es.
M:
       dag Sjoerd.
       he: hoe was je feestje gisteren?
M:
[M-S:Translation]
S:
       We:11 van Noort. What's up.
M:
       Hello Sjoerd.
               (1.2)
M:
       Hey how was your party last night?
[M-P]
P:
       je bent de eerste die belt in 't nieuwe huis joh.
M:
       ja.
               (0.7)
       oh ja?
M:
P:
       ja.
               (1.3)
P:
       maar ik roep Sjoerd even.
[M-P:Translation]
P:
       You're the first one to ring at the new house!
M:
       Yeah.
               (0.7)
M:
       Oh yeah?
P:
       Yeah.
               (1.3)
P:
       Well I'll call Sjoerd.
[DA:2:3-4:SO]
       She's going to pick me up Thursday morning.
               (1.2)
       hh't hhhhhhh=
J:
       =Uh how early is she gonna pick you up.
G:
```

Most roughly, these four fragments are pointing to the possibility that the 'tolerance interval' for some problematic interactional bit is just over one second, whereupon one of the participants starts to do some resolutional activity. At this point it's just a 'curio'.

So went the comment. I began to wonder if this 'curio', this 'tolerance interval' of approximately one second, could conceivably be a real phenomenon. So I undertook a data run, going through my transcripts and pulling out interactional bits in which intervals of more or less one second occurred; bits which struck me as, in various ways, 'problematic' for the participants, where I got a sense that some next action ought to happen 'now'. I ended up with some 320 cases. And those cases strongly increased my sense that there might indeed be something systematic going on with this [+/-] one second silence.

Roughly, it now seemed to me that there is some sort of interactional 'metric' in which 'approximately one second' operates, where that metric has as one artifact a 'standard maximum tolerance' for silence of more or less one second.

It also seemed that there might be an alternative available metric; a 'gearing down' to a pacing which provided for silences at approximately one second intervals; at about two seconds, three seconds, etcetera.

As I was going through the materials, focussed on this [+/-] one second silence, it occurred to me that the candidate phenomenon was so easy to see, then if it is indeed a systematic feature of interaction, surely the many people working with the phenomenon of silence in interaction must have come across it and written it up. On the other hand, if it was just a fluke, and I was doing selective observation, noticing the 320 cases of problematic interaction in which the silence

just happened to be more or less one second, among the myriad similar cases in which the silence was longer, then some of the work done on silence must show that to be the case. That is, it seemed to me that I was launching on some work which would be either redundant or wrong.

So I sent out a request for references to a literature on silences/pauses. An array of instances from the Sample Collection of [+/-] One-Second Silences attached to the request-letter follows (the letter itself and the full Sample Collection can be seen in Appendix One).

Selections from the Sample Collection: 'Standard Maximum' Silence: [+/-] One Second

```
(1.1) [JG:IV:1:1-2:S0]
              I'll get a Ninety Niner. ((a fast-food meal))
Ronald:
              Oh no honey no no no no no.
Maggie:
Ronald:
              Eeyeh-
             No I have to go to the store anyway and get stuff for
Maggie:
              your lunch and all.
              ((shouting)) NO! We have stuff.
Ronald:
              No we don't Ronald, that's why I didn't have anything
Maggie:
              to take for my own lunch.
              So what did you eat.
Ronald:
                      (1.0)
          *→
              ((edgily)) I ate a sandwich Ronald there was nothing
Maggie:
              in the hou:se.
                     (1.0)
Ronald: →
              OH.
```

(1.2) [SBL:2:2:3:R:30-31:S0]

```
Claire: if I say one club and they say one diamond

[what do you d]

That's a BU:S:T. isn't it.

Claire: 
Ye:h then what do you do:.

**

Chloe: 
We:ll to me: they haven't explained it to me and I:

don't kno:w...
```

```
[SBL:1:1:12:R:15-16:S0]
(1.3)
              I says well it's funny: Missi:z uh: |Schmidt ih you'd
Maude:
              think she'd help< 'hhh W:ell (.) Missiz Schmidt was the
              one she: (0.2) assumed the respo:nsibility for the three
              specials.
                      (0.6)
              Oh ↓*::. °°M-hm, °°=
Bea:
              =Maybe: 11e told me this.
Maude:
              Ah ↓hah,
Bea:
                      (1.2)
               °Uh-hah,° 'hh Isn't †her name jus:t plain Smi<u>:</u>th?
Bea:
                      (0.7)
              Schmidt.h
Maude:
         *→
                      (1.2)
              Oh I thought it was just S-m-i-t-h:.
Bea:
              No I think it's S-c-h m-i-d-t, something like that it's
Maude:
               just Sch†mi∤:dt.
                      (0.3)
              Ah hah.
Bea:
       [Fr:USI:2:R:2:SO]
(1.4)
               Victor
Carol:
Vic:
               Ye:h?
Carol:
               Come here for a minute.
         *→
                      (1.0)
               You come he : r e . please?
Vic:
                           You can come b a:ck=
Carol:
               =I |have to go to the ba:th|room.=
Vic:
               =°0h:.°
Carol:
(1.5)
       [SPC:IV:6:13-14:SO]
               'hhhhh Well somebody thought that you were in danger of
Mr K:
               killing yourse:1f.=
               =WELL SUPPOSE I WA:S I: (WEN: WITH) MY: SISTER AND MY
Mrs B:
               SISTER'S (WITHUH VIBBINUB anybody).
               I'm sorry I didn't understand you.
Mr K:
               SUPPOSE I WA:S. MY SISTER'S IN HEAVEN AND EVERYTHING IS
Mrs B:
               BEAUTIFUL IN HEAVEN, (.) AND I DON'T HAVE TO WORRY ABOUT
               MONEY OR ANYTHING E:LSE.
                      (1.2)
          *→
               HELLO:?
Mrs B:
Mr K:
               Yes.
               'hhhhh I'm:: I'm still here. I'm trying to figure this
Mr K:
               situation ou:t.
```

```
(1.6)
       [W:PC:III:1:1]
Sue:
                He11o:?h
                        (1.0)
                Hello::, hh
Sue:
                        (3.0)
                H'11o?h
Sue:
(1.7)
        [GTS:I:2:38-39:PR:SO]
                You don't have to tell me what it is, just is there
Roger:
                anything wrong with you mentally.
          *→
                        (1.0)
Dan:
                ↓Uh:::::,
                        (0.2)
                In other words y-are y- are you a dope addict,
Ken:
                        (0.4)
                whh!
Ken:
Dan:
                No†::
                That's not mental,
Louise:
                            hhh heh heh
Ken:
                        (1.5)
                It's not?
Ken:
                Can't you analyze yourself? or-
( ),
Roger:
Louise:
                                      ),
Louise:
                                   [。(
                                                        )°
      ):
                ih You're perfectly normal.
Roger:
                         (1.2)
                twe↓:11 th: tat word perfectly normal is a wi:: [de acc]ORding
Dan:
Roger:
                to your psychiatry |books.
                         (0.5)
(Dan):
                \frac{\text{hhheh}}{\circ i} \left[ \frac{\text{hh}}{\circ i} \right[ \frac{\text{h}}{\text{h}}
                          h hih hiih°=
Louise:
                          l°hih-ih°
(Roger):
                          eh
Roger:
                     huh huh huh huh huh hu hu hu hu hu° 'hhh ]=
Dan:
Louise:
              = | ( ) | NO::: I'm not perfectly normal according to m(h)y
Louise:
Dan:
                psych(h)iatry books.
        [Owen:8B15(A):43-44:S0]
(1.8)
                By the way do you want any lettuces little lettuces?
Andrea:
                because they've come ou:t very we 11
                                                        Have they,
Bette:
Andrea:
                 †Yeh
                         (0.4)
                 †0h:.
Bette:
                 °If you're interested°
Andrea:
                         (1.0)
                u:Uh::::m I'm just(tr)- thinking.
Bette:
```

The request-letter received several responses; people sent me bibliographies, articles, and occasionally some encouragement. Hout-koop came up with another nice fragment from her own materials:

```
(1.9)
       [R-M]
R:
       met Rie van der Linde.
       hallo:.
M:
       hallo:. is jouw moeder thuis?
R:
M:
       nee. die is op 't werk.
       die is op d'r werk.
               (.)
R:
       jeetje dat mens workt ook wat af.
               (0.9)
R:
       goeie:da:g.
               (1.2)
R:
       hé: e:::h luister even.
               (1.\overline{2})
R:
       ben je d'r nog?
M:
       ja::.
       oh. ('k denk) ik hoor helemaal niks meer.
R:
(1.9.a) [R-M:Houtkoop Translation]
       here's Rie van der Linden.
R:
M:
       hallo:.
R:
       hallo:. is your mother home?
       no, she is out working.
M:
R:
       she is out working.
               (,)
R:
       gosh that woman is always working.
               (0.9)
R:
       my god.
               (1.2)
       he:y u:::h listen.
R:
               (1.2)
R:
       are you still there?
M:
       yea:h.
       oh. (I thought) I don't hear anything anymore.
R:
```

Glancing through the few articles that had been sent me, I found two pieces which in some way addressed the [+/-] one-second silence. The first is from Robert E. Kraut, "Verbal and nonverbal cues in the perception of lying", in <u>Journal of Personality and Social Psychology</u>, 1978, Volume 36, Number 4, pages 380-391. Here are the relevant segments.

Seventy four subjects listened to a 5-minute excerpt from a simulated interview in which a female applicant applied for a job as a dormitory counselor. When the male interviewer asked if the candidate smoked marijuana, he gave the impression that he either strongly opposed its use or supported its use. The job candidate answered either that she did not smoke it and found its use distasteful or that she smoked it recreationally several times a week. Her answer was preceded by either a 7-second pause or a 1-second pause.

•

The paralinguistic cue was manipulated by inserting a 7-second partially filled pause between the interviewer's marijuana question and the candidate's answer. Four seconds of blank tape, an "uh" spoken by the candidate and taken from another of her answers, and 3 seconds of blank tape were spliced into the interview, starting at the last sounds of the question. This length of silence seems to be at the limits of those that appear in normal conversation . . . Thus, the silence . . . was noticed by virtually all subjects bud did not appear unnaturally long to them. In the other version, no silence was inserted between the question and answer, and the naturally occurring hesitation of approximately 1 second was retained.

•

The most interesting results involve the pause. . . . The 7-second pause increased subjects' suspicion of the candidate when they were already suspicious. Compared to subjects who heard only the candidate's denial of marijuana, the subjects who heard a long pause and then the denial thought the candidate had been less candid and lied more in the interview . . . Compared to subjects who only heard the candidate admit to smoking marijuana, subjects who heard a long pause and the admission thought she had been more candid.

((emphasis added))

In the first place I found it interesting that in a simulated interview, the "naturally occurring hesitation" after a problematic question was "approximately 1 second". In effect, another datum for my collection, from an altogether different type of talk.

Secondly, there is some evidence that at least this author did not find anything of particular interest in silences of that length.

Over the course of the article the [+/-] one-second silence is relegated from "a 1-second pause" to "the naturally occurring

hesitation of approximately 1 second", to nothing worth mentioning; i.e., the relevant materials are thereafter described in terms of the subjects hearing "only the candidate's denial" or admission, in contrast to those "who heard a long pause".

The second piece comes from Brian Butterworth's article,

"Evidence from pauses in speech", Chapter 7 of Language Production,

Volume 1, Speech and Talk, edited by Brian Butterworth, Academic

Press, 1980, pages 143-154. In it he refers to Freida Goldman-Eisler's article, "Pauses, clauses, sentences", in Language and Speech, 1972, volume 15, pages 103-113.

Moreover, between-sentence pauses in reading tend to be roughly of the same length, 1.0 - 1.24 seconds, whereas in spontaneous speech they vary considerably, with many over 2.50 seconds, reflecting varying cognitive demands of speech as compared with reading (Goldman-Eisler, 1972).

((emphasis added))

This statement strongly raises the possibility that I had been engaged in selective observation, and was just not attending the many longer silences in the "spontaneous" materials with which I work. On the other hand, it was yet possible that I had been focussing upon one or several particular sorts of "cognitive demands", those which can be and recurrently are satisfied within approximately one second. It was certainly interesting that approximately the same silence which I was treating as a possible 'standard maximum' for conversation constituted the standard for "between-sentence pauses in reading."

At that point I put the matter aside, marking it as something to be pursued one of these days.

II. A Possible Complementary Approach to the Candidate Phenomenon

In August 1983 I started typing up the several hundred pages of

retranscriptions I had done when I first arrived at the Hogeschool in preparation for the project on the organization of overlapping talk. As I was typing up these materials, these several hundred pages passing before my eyes in a concentrated batch, it seemed to me that the longer silences tended to fall into a cluster of about nine-tenths of a second to one and two- or three-tenths seconds, independent of any specification of the activities in the course of which the silences were occurring.

Given the obvious "considerable variation" of silences in conversation (cf. Fragments (1)-(12) and Butterworth/Goldman-Eisler above), it had not occurred to me that 'statistical' procedures would be a fruitful way to develop the possibility of a 'standard maximum' silence. But now I wondered if a simple counting procedure might not, after all, yield something. So I did another run, collecting and counting all silences of nine-tenths of a second and longer (i.e., starting the 'approximately one second' a moment early). I went through some 168 transcripts, altogether some 1,860 pages.

The results of that data run are described in a communication to the "Gang of 2½", a little workgroup which meets once every two weeks (myself, Hanneke Houtkoop, and Judith Stalpers of SLE, and Harrie Mazeland who is now at the University of Düsseldorf). I reported the results to them because Stalpers had been trying to work with the silences in one of the conversations we had been examining. I had glanced at her work and thought it looked like a 'statistical' approach which I warned her against. It seemed only fair to confess that now I was trying something of the sort.

The full report is attached as Appendix Two. Following is a

brief summary.

The data run, counting all silences of nine-tenths of a second and longer, yielded a couple of striking results. For one, there are some 951 occurrences of silence in a cluster of (0.9)-(1.2); i.e., of 'approximately one second', compared to some 329 cases of all longer silences. About a 3-to-1 ratio.

Secondly, if the candidate 'standard maximum' cluster of (0.9)-(1.2) is compared to the next longest cluster, (1.3)-(1.8), there is a tremendous dropoff. The 951 silences of (0.9)-(1.2) are followed by some 92 occurrences of silence from (1.3)-(1.8).

Following is a graph displaying the relative frequencies of all silences of nine-tenths seconds and above. Even with the distortion necessary to exhibit 951 units and 5 units on the same page, the drop-off is dramatically evident. The graph appears on page 16. The 6 silences of longer than (4.9)-(5.2) are not specified in the graph, but are only represented by dots. On page 17 they are specified, and four of them are shown in their sequential environments. The remaining two can be found in Appendix Two.

```
Graph 1: [(0.9)+] Silences by Clusters
```

(0.9)- (1.3)- (1.9)- (2.3)- (2.9)- (3.3)- (3.9)- (4.3)- (4.9)- (1.2) (1.8) (2.2) (2.8) (3.2) (3.8) (4.2) (4.8) (5.2)(0.9) - (1.3) - (1.9) - (2.3) - (2.9) - (3.3) - (3.9) - (4.3) - (4.9) -(1.2) (1.8) (2.2) (2.8) (3.2) (3.8) (4.2) (4.8) (5.2)

```
The six longest silences are: (5.8), (6.2), (6.5), (6.5), (7.3) and (16.4). Three of them, the two (6.5)s and the (16.4), occur in close proximity, in a conversation between two secretaries on a coffee break, looking at a train schedule.
```

```
break, looking at a train schedule.
(2.1) [Owen:8B15(A):29-30:S0]
              I think I'm gonna have to get up the night be fore
Andrea:
                      (1.2)
               't'hh Check with the station and (.) ask them what the
Bette:
              first train that goes on Good Friday is and-
               hh Wonder if I could advertize in the grad center for
Andrea:
              anyone who's going up.
                      (1.9)
              Be worth trying,
Andrea:
                      (1.0)
Bette:
              Hmm:.
                      (6.5)
              If it was an ordinary day.hh
Andrea:
                      (1.2)
              They've got really early (.) trains:: (0.2) um other
Andrea:
              dat:ys=
              =If it was an ordinary day you'd be alri:ght.=
Bette:
              =Threre's plenty
Bette:
                                Five forty three [:. Ye:h,
                  lYe:ah.
Andrea:
Bette:
              Well the- (1.3) the fi:ve forty three:, (1.4) Well it
Andrea:
              would- be- it would be the only matter of- the only
              possible one in fact.
                      (0.7)
              But I mean ih- agai:n if I got up at (0.3) four o'clo:ck
Andrea:
               to get a train at five forty three I may just as well
              stay at Heathrow overnight anyway in fa ct. We:11]: ct.
Bette:
                      (.)
Bette:
               It's not gonna make that much (.) difference to the
Andrea:
               amount of sleep I get,
                      (1.9)^{-}
               °Mm:,°
     ):
        **→
                      (16.4)
               It's the weekend after "next"
Andrea:
Bette:
               °0h:,°
                      (1.0)
Andrea:
               ikGu::h (Ihh ho(h)pe), hhhuh huh-uh-thuh-n
                                             hmh-hmh
Bette:
Andrea:
               uh ih thnh huh thhhh theh he::h
                          └ehh-heh-heh
Bette:
        **→
                      (6.5)
Andrea:
               °The latest trai:n down on (.) Thursday,°
```

The (7.3) silence occurs in a conversation between two young women sitting in a sunny corner at a neighborhood block party.

```
[Goodwin:50:Clacia:7-8:SO]
              It- was pretty ni:ce.It really wa:[s, (Yeh)°=
Donna:
Tanzi:
               =°(it was nice and it was clean:,=
Tanzi:
Donna:
              Right. new: and they (h a : d) (you know like made the= Right.
Tanzi:
Donna:
Tanzi:
               =be:ds and, (0.5) °fu rniture (and stuff.)
Donna:
                                      (You) had (choice) furniture.=
Tanzi:
               =Right. Well we had that over in our p- uh, (0.8) u-They
Tanzi:
               had bought that for our house. When they furnished the
               house.°
                      (2.5)
               °(But it was different) there's no dou:bt about it.°
Tanzi:
                      (7.3)
               Whose car is that down there (
Donna:
                                             <sup>l</sup>bye bye ENJOY YOUR
Tanzi:
               BRO::CCOLI PIE::,
                      (0.4)
               Broccoli pie::,
Donna:
                      (0.6)
               She's going to her sister's house.
Tanzi:
```

In the Coffee Break materials, the long silences may well be 'occupied' by one of the women looking through the train schedule. In the Block Party materials there is good reason to suppose that the (7.3) silence is 'occupied' by both women scanning the surrounding scene. Each thereafter speaks by reference to things they noticed in the scan; Donna asking about a car, Tanzi calling to someone.

The silences in these two fragments occur in radically different sequential environments than those in which the candidate 'standard maximum' silences tend to occur (cf. Fragments (1.1)-(1.9) and Appendix One).

The segments of talk in which the two remaining longest silences occur are shown in Appendix Two; the (5.8) silence on page

16, the (6.2) silence on page 12. Several other fragments in which long silences occur can be seen in Appendix Two, pages 11-16.

The 'statistical' data run also yielded some possible evidence for the phenomenon of an 'alternative metric', a 'gearing down' to a slower pace with silence parsed second-by-second rather than in smaller units culminating at [+/-] one second (see, e.g., Fragment 1.6, the third "hello" occurring after a (3.0) silence). So, for example, a small group of transcripts showed an interesting pattern of silences. In 16 conversations ranging in length from 3 to 65 pages (see the Key to Transcripts, below), there are very few silences above the candidate 'standard maximum' of (0.9)-(1.2), none at all from (1.5) to just approaching two seconds; i.e., to (1.8), and then a flurry of silences in the cluster (1.8)-(2.2).

Table 1: A Pattern of Silences in a Small Sub-Set of Conversations

Transcript: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Silence																	<u>Total</u>
(0.9)- (1.2)	-	1	2	2	2	3	3	4	19	11	9	7	3	5	2	33	107
(1.3) (1.4) (1.5) (1.6) (1.7)	- - - -		- - - -	- - - -	1 - - -	4 - - -			2 2 1 -		- 1 1 -		- 2 - -			2 2 3 -	12 10 7 0
(1.8)- (2.2)	1	1	1	1	1	1	1	1	2	2	2	2	4	4	4	6	34

^{*} The pattern in these materials suggests that perhaps I should in the future, treat the 'target cluster' as starting at (0.8) rather than the arbitrarily-chosen (0.9).

Key	to Transcripts:	Pages	<u>Key</u>	to Transcripts:	Pages
1.	[Her:III:1:14]	6	9.	[NB:IV:10:R]	65
2.	[NB:II:4:R]	27	10.	[NB:II:2:R]	29
3.	[Kamunsky:II]	7	11.	[Her:I:5]	6
4.	[NB:I:2]	3	12.	[Trio:III]	9
5.	[NB:III:1]	15	13.	[FD:(Finger)]	6
6.	[Labov:TA]	13	14.	[Campbell:7]	12
7.	[SBL:3:3:R]	7	15.	[SPC:X:3]	10
8.	[SBL:3:5:R]	12	16.	[SBL:2:2:3:R]	61

And in Transcript 16 there is another gap from the six [+/-] 2-second silences, until (2.8)-(3.2), where another two silences occur.

Given such results, I am currently treating this sort of 'statistical' approach to the candidate phenomenon as potentially useful.

III. Continuing Exploration

Since August I have been working both 'interactionally' and 'statistically' with the candidate phenomenon; i.e., (1) selecting instances of various activities and/or interactional/sequential environments in which there appears to be a 'standard maximum' silence of approximately one second, and (2) going through materials and simply counting up the silences of nine-tenths of a second and over.

I am, at the moment, collecting instances of 'innocuous' occurrences of the 'standard maximum'; i.e., activities which did not recommend themselves as interactionally problematic, and thus were not collected in the primary data run. One such phenomenon is that of Intra-Sentence Silences. For example:

(3.1) [Owen:8B15(A):34:SO] ((face-to-face))

Andrea: → The biggest check I ever wrote out was: (1.0) k two hundred and thirty fi:ve (.) pounds

```
[SBL:2:1:6:R:1:SO] ((telephone))
(3.2)
              hhh I'm jus:t servin:g um
Bea:
                     (0.7)
               tlk'hhh,hh
Bea:
                      Dessert (I imagine), ce cream and some:::
Tess:
Bea:
              b-little: home made ((1.0) cake cookies or something
       [Goodwin:DP:38:R:SO] ((face-to-face))
(3.3)
Beth:
              you know what I mean?
              True. True.
Jan:
              We were much younger and, (1.0) lots of stuff you know,
Beth:
              like a lot less settled in a lot of wa:ys?
                     (0.6)
              And uh, (1.7) whereas no:w, you know even with the
Beth:
              second one, 'hh it's it was mo:re, (0.9) u-uh::-uh (1.2)
              like deliberately. You sort of know what you're doing
(3.4) [NB:IV:10:R:14:S0] ((telephone))
              M_{[A:nd he]} c_{ame in about < (1.0)} elet's see five thirty,
Emma:
Lottie:
(3.5) [Her:I:5:3:SO] ((telephone))
              Uh::m it's only that uh I: faw- I °fah-° 'hh I °fah-°
Evelyn:
              found it, h 'h uh very expensive uh ten: pou:nds a(m)
              a da: f:y,h
Heath:
              Yes=
              =But (0.4) uh::m:: (0.9) uh-:: i-i- (.) if:: 'h'h uhw
Evelyn:
              he won't do what you want him to do: t- 'h twice a
              week with you and twice a wee:k with me.
Heath:
              We:11 . . .
      [PB:3-4:16:S0] ((face-to-face))
(3.6)
              JoLee's kind of cranky toni:ght.
Merle:
                      (0.4)
              Probably 'cause we didn't put her to bed until ten=
Merle:
Paul:
               last night hhh But uh:m (1.2) I know JoLee used to get
Merle:
               kwan- cranky, you know really bad.
(3.7)
       [CDHQ:II:100:R:4:S0] ((telephone))
              Yah I know but they said tha(0.2)t uh:::*u:-:-: some
Opa1:
              way that (0.3) they would know ho:w uh (2.5) that they
              were getting in touch with him >you know what I mean?
Josh:
               >Mhm?<
```

```
(3.7) ctd.

Opal:
Josh:
Opal:

Opal:

Woman answered an:d uh (0.9) uth: it was=

Josh:
Josh:
Opal:

| Opal:
| Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: | Opal: |
```

Graph 2, below, displays the relative frequency of occurrences of Intra-Sentence silences, including those shown in the Introduction section as Fragments (1)-(12). The longest silence in this current corpus, five seconds, occurs in Fragment (12), an extended version in Appendix One, page 11.

The results are not as dramatic as those of the primary data run shown in Graph 1, but both the ratio of the 261 cases of the 'target cluster' of (0.9)-(1.2) to the 109 cases of all longer silences (over 2-to-1) and the dropoff from the target cluster to the next cluster of (1.3)-(1.8), from 261 to 67 remains substantial. (See page 23 for Graph 2).

I have also started re-timing and counting the silences in some face-to-face, multi-party conversations, which are drastically under-represented in the primary data run. And given that there is now good reason to be as accurate as possible with the timings, I bought myself a nice digital stopwatch. I am now using both the 'photographer' method and the stopwatch. The timings are fairly uniform, within a tolerance of about a tenth of a second. I still consider them to be rough timings.

So far I have taken samples from three multi-party conversations; a group therapy session for teenagers, a dinner party of two married couples and two children, and an afternoon in a neighborhood

```
Graph 2: Intra-Sentence Silences of [(0.9)+]
(0.9)- (1.3)- (1.9)- (2.3)- (2.9)- (3.3)- (3.9)- (4.3)- (4.9)-
(1.2) (1.8) (2.2) (2.8) (3.2) (3.8) (4.2) (4.8) (5.2)
                                                                  261
                                                                   67
                                                                   20
                                                                   14
                                                                    4
                                                                    3
                                                                    1
                       (2.3)-
                                      (3.3)-
                                              (3.9)-
                                                     (4.3)-
                                                            (4.9)-
(0.9)-
        (1.3)-
               (1.9)-
                              (2.9)-
                       (2.8)
                              (3.2)
 (1.2)
        (1.8)
                (2.2)
                                      (3-8)
                                              (4.2)
                                                     (4.8)
                                                             (5.2)
```

upholstery shop where several men are drinking beer, one of them occasionally working, occasionally joining in the conversation.

For each of the three I am showing two discrete graphs. The first graph for each of the first two conversations is taken from a 'settling down' or 'getting started' section of the conversation, the second, about a half hour sample of the talk thereafter. The first graph for the third conversation is taken from a section in which one relevant activity is 'waiting for' the arrival of someone to whom some big news will be delivered. The second graph is taken from the point of that one's arrival.

Graph 3.a.: GTS:I:2:A: [(0.9)+] Silences

```
Pages 1-9 [00:00-06:15]
(0.9)-
          (1.3)-
                    (1.9)-
                              (2.3)-
                                        (2.9)-
                                                  (3.3)-
                                                            (3.9)-
(1.2)
          (1.8)
                    (2.2)
                              (2.8)
                                        (3.2)
                                                  (3.8)
                                                            (4.2)
                                                                            23
                                                                             8
                                                                             5
                                                                             2
                                                                      (5.1)
                                                                      (6.9)
```

The two longer silences occur within approximately 30 seconds of each other, at [05:30] and [06:00].

```
(0.9)
Dan:
               Hm?
A1:
                'k Yah they're smoking in there too.
                        (0.4)
     ):
                ((sniff))
(
               Hey don't you know cigarettes aren't good for you?
Ken:
                        (1.2)
Ken:
               whhhh hhh
                        (1.2)
               hhh hh hh hhhh
Ken:
               This is T(h)alent Scouts.
A1:
               hhh hh
Ken:
                Now [\frac{\text{don't carry on like that.}}{\text{Ta(hh)le(hh)nt Sc(hh)ou(hh)t}}]_s [\frac{(1.0)}{\text{ohhh hh hhhho}}]
Roger:
Ken:
                They'll think poorly of us.hnh
Roger:
Dan:
                ehh::-:::
                heh heh heh!
(Ken):
                   lheh heh heh
Dan:
                eh! eh!
A1:
                hhhhh!
(Roger):
                How, much worse could they think of, u(h)s.
Ken:
                   ١(
                                                       They'll think we're
Roger:
                nu(h)ts. hehheh hh heh hh hh hh hehh
                                              <sup>l</sup>Other than that, what.
Ken:
                        (.)
                What could they think of us.
Ken:
                        (.)
                I mean just 'cause we're here doesn't mean we have to
Roger:
                prove we're nuts, hh
Ken:
                heh heh
                        (2.5)
         (5.1) ((drinking noises))
                        (1.0)
                What time is it,
A1:
                ((Note: The longitudinal brackets indicate a timing
                across a series of utterances or activities. In this
                case, from Ken's laugh, "heh heh", to Al's "What time
```

Here, the 'getting started' character of the session is invoked in the talk following the longer silences; i.e., the two questions, "Have they started taping us?" and "What time is it?", after the silences of (6.9) and (5.1) respectively.

is it?", a 'silence' of five and one-tenth seconds.))

Following is a graph of the relative frequency of silences in the half hour sample of the 'interaction proper'. Graph 3.b.: GTS:I:2:B: [(0.9)+] Silences Pages 10-66 [06:15-36:15] (3.9)-(2.3)-(2.9)-(3.3)-(0.9)-(1.3)-(1.9)-(4.2) (2.8) (3.2)(3.8)(1.2)(1.8)(2.2)88 20 18 3 1 (2.9)-(3.3)-(3.9)-(2.3)-(0.9)-(1.3)-(1.9)-

(2.8)

(3.2)

(3.8)

(4.2)

(1.2)

(1.8)

(2.2)

The three longest silences in this half hour sample occur in the following sequential environments.

```
[GTS:I:2:20:R:SO] [ca 12:15-12:25]
Ken:
               Hey.
                       (0.2)
               Are you gonna speak to me,
Ken:
                       (.)
               Would you like one of the:se?
Ken:
                       (1.2)
               You ino goord s1*o∷b uhh huh heh
Ken:
                            t'hh
A1:
                        (0.4)
                kh hhh he::hh khh o(o:ne,
Ken:
A1:
(
                hhhh hhh
Ken:
                hhi:hh ↓two: three
                               I already (
                                                    ).
Roger:
                °(
Dan:
Louise:
                I'm missing something.
                        (0.2)
                hhe:hh huhre-heh
Ken:
                            They're at wa:r.
Roger:
               He's in a |jolly good mood this mortning
Ken:
                °\earrow{Y}e:h°
Louise:
         **-
                        (3.8)
Dan:
               He was in a jolly good mood 11ast week.
                        (1.0)
               But that was I think we ought to stone him for these uh heh heh hhh
Louise:
Roger:
     ):
(
                app(h)ear(h)ances hnhh thu-uh
Roger:
[GTS:I:2:23:R:SO] [ca 13:50-14:15]
                Hey (.) wait. I've got a (.) 'hh \underline{I}'ve got a \downarrowjoke. 'hh
Ken:
                What's bla:ck and white and hides in caves,
                        (.)
                Alright I give up=
Roger:
               =What's \overline{b}lack and \overline{b} white and \overline{h} des in \overline{b} caves°
Roger:
                                   lA news pape ir.
A1:
(
      ):
Ken:
                No: (.) pregnant nun:,
                        (3.9)
                uhh °heh°
Ken:
                        (0.4)
                uhh hh
Ken:
Roger:
                'kh >Why don't you run across the street and get me some
                more coffee. <
                        (0.4)
                      )° Why don't you drop dea::d.
Ken:
```

```
[GTS:I:2:56-57:TR:SO] [ca 32:10-32:40]
A1:
                I think the best joke I saw in Playboy was the one where
                the little girl was standing there,
                in the doctor's office, she didn't have anything on,
A1:
                she's standing there,
                        (.)
                Her mother's standing right by her
A1:
                And she's got the ears, and the uhm,
Louise:
A1:
                tail,
                h and the tai(h)1?
Louise:
                        (.)
                hhh, hh!
Roger:
                    Mormmy had an accident.
A1:
                                     ^{\mathsf{L}}\overline{\mathsf{I}} saw tha(hh)t
Roger:
                        'Yeah!
                heh! heh hh! hh hh
A1:
Roger:
                        (1.4)
                ehhh hhh!
Roger:
                        (1.2)
                As Mister Sheitzak put it so eloquently once, 'tch'h
A1:
                sex is here to stay.
                        (0.7)
Louise:
                heh heh
(Ken):
                hhhheh
                hmh hmh 'hh And that I'm convinced about.
Dan:
                        (1.1)
(Dan):
                hmh hmh, hmh.
Louise:
                        Or is that that you-you just hope it.
                Why fight it it's bigger than the both of u(hh)s
Roger:
Ken:
                heh heh heh
                    hhhh! hhh
Roger:
                hhhheh hh! hh! hh!
A1:
                            heh
Ken:
         **→
                        (3.2)
                I'm gonna be a grub from now on,
Ken:
                        (0.5)
Louise:
               \begin{bmatrix} W & h & \underline{y} & \vdots & \cdot \\ Do & you & have to be in front of my: view \end{bmatrix}
Roger:
        In the 'getting started' section shown in Graph 3.a., the
```

In the 'getting started' section shown in Graph 3.a., the configurations are much weaker than those of Graphs 1 and 2. There is only about a 3-to-2 ratio of the 23 cases of the target cluster to the 16 cases of all longer silences, and a dropoff of only 23 to 8 as between the target cluster and the next cluster of (1.3)-(1.8).

In the half hour sample of the 'interaction proper' the configurations are stronger. Akin to the Intra-Sentence silences of Graph 2 the ratio of target cluster to all longer silences, 88 to 42 respectively, is about 2-to-1, and there is a dropoff of 88 to 20 as between the target cluster and the next cluster.

Following are the two graphs taken from the dinner party (these materials are on videotape and some of the participants' movements are noted).

Graph 4.a.: Goodwin:DP:A: [(0.9)+] Silences

```
Pages 1-5 [00:00-03:30]
(0.9)-
         (1.3)-
                   (1.9)-
                             (2.3)-
                                       (2.9)-
                                                 (3.3)-
                                                          (3.9)-
                                       (3.2)
                                                 (3.8)
                                                          (4.2)
         (1.8)
                   (2.2)
                             (2.8)
                                                                           10
                                                                    (5.0)
                                                                    (5.9)
                                                                            2
                                                                    (6.7)
```

In this $3\frac{1}{2}$ minute 'settling down' section the seven longest silences (of 1.8, 2.4, 2.9, 3.0, 5.0, 5.9, and 6.7) occur within a minute and a half, between 02:00 and 03:30. Here is the segment. [Goodwin:DP:4-5:R:SO] [01:45-03:45]

```
Beth:
                   We need water.
                             (0.3)
                   Okay?
Beth:
                   Wan to help Fred get some water? O:kay. hnh! ((Fred leaving))
Jan:
Fred:
           (1.0) ((On telephone)) He said he'd call me Uh:::, ((Hal edging away from his seat))
Rod:
                 °(Is this Oka<u>:y</u>, ((Beth leaving))
Beth:
                             (0.5)
                                                       (     )
Y<u>e</u>ah well<sup>]</sup>(I guess I'm
               — I just need one more dish (
Beth:
Rod:
                   some[body)
Here's my spoony:.
Bill:
Rod:
                   Yeh.
           (0,2) Is that your spoony?
Jan:
```

```
Bill:
             - nYe:h,
                       (4.1) ((Beth returns))
               "Yeh you could check. I'm gonna (keep uh), stick with it."
Rod:
                                                             °0kay°
Beth:
               Woah:::: [There's yours Bi:11,] "heh heh heh heh heh!"
Beth:
Jan:
               °hu[h!°
hnnnn.
Jan:
Bil1:
               He:re's your shri:mpies. ]=
Beth:
                      What are these!
Josh:
               = "Here's your shrimpies Bi:11,"
Beth:
               Oh I_{\text{Those are shrimp}} s=
Josh:
                                            ((Hal returning to the table))
Hal:
               =That's shrimps.
Beth:
Rod:
               YEH.
                       (0.7)
Rod:
      # (4.2) OKAY JOHN, GOOD TO HEAR FROM YOU MAN.
                       (0.6)
               RIGHT. TALK TO Y OU WEDN ESDAY.
Rod:
(
     ):
                                          I guess I'll sit over here
Hal:
Bi11:
                       <sup>l</sup>There's always a c<u>e</u>rtain margin of error.
Hal:
                                              ((Rod hangs up the phone))
                               ((Beth leaves))
                       (0.7)
               ((Sits)) (
                                     ) there and all thrat.
Hal:
                                                          That's a won ton.
Jan:
               Hey that bean sprout-
Hal:
                         (What is a won ton!)
Josh:
               That bean curd thing looks pretty good,
Hal:
Jan:
               Mmm.
                       (4.4) ((Fred and Beth return))
                ((whistling)) la ti la ti la ti do
Rod:
Beth:
Beth:
               Okay why don't yoursit-
                                    ↓do
Rod:
                                    (Hey
     ):
Beth:
               =(down) and help yourself,
                       (6.7) ((Several moving around the table))
                °Here's the duck sauce.°
Beth:
                       (1.0) ((Beth sits, then Fred sits))
```

[‡] Although Rod is on the telephone and not part of the conversational group, his talk here is very loud (indicated by UPPER CASE), and given the placement of talk by an unidentified member of the group, and then of Hal; i.e., just as Rod's Closing utterance is reaching completion, it appears that his talk has intruded, and is being monitored by the group. For these reasons I am not counting the (4.2) interval as a 'silence'.

```
And here's the mustard.
Beth:
                        (0.9)
                Oh::: there's one more thing.
Beth:
                        (0.3)
                hnh!
Fred:
                And that i:s, here kitty, hh!
Beth:
                        \overline{(1.4)} \overline{(\text{Be}}th leaving, carrying the kitten))
                                  ).°
Josh:
Hal:
               Mm:.
                <u>°(</u>
Josh:
                How are you folks doing?
Fred:
                °Oka:y?°
Jan:
                        (1.0)
Hal:
                Okay,
         **-
                        (3.0)
                                ((Fred tasting the food))
Fred:
                Mmm.
                        (1.4)
Fred:
                Mm !
         **-
                        (2.4)
      ):
                   )- (0.4) (Good?)
         **
                        (1.8)
                "Ninety five points."
Fred:
                        (1.2)
                ((Sitting down)) hhhehhhhhhh.
Beth:
                        (1.0)
                Do they have any:, (0.8) uhm, (0.3) duck, (0.3) what do
Hal:
                they call it duck, (sauce).
                                    Duck sauce? Y<sub>r</sub>ah (it's right here).
Beth:
                                                    <sup>l</sup>There's that sauce,
Jan:
                        (0.3)
                (It's
Jan:
                                 ).
                Uh:m, here's the-
Beth:
                      Well give me the duck sau ce. Here's the regular
Hal:
Beth:
                durck sauce (
                   [ck sauce ( )]
(Let me have a little of it. Great.
Hal:
                        (1.0)
                What a very big- Wo:w.
Hal:
                And here's a little mustard.
Beth:
                Y(h)eh they give you mrore than you get in the sto:re.
Jan:
Hal:
                                          <sup>L</sup>Mm hm
Beth:
                mYeah.
                This'll do it,
Hal:
         **-
                               ((Beth tapping top of mustard container))
                        (2.9)
                I can't-
Mm (
Beth:
Fred:
Beth:
                =qu-m-quite manage the mus, tard.
                                              These egg rolls are very good.
Fred:
                ((mouth full)) You don't want mustard you mean?
Jan:
                No [ :. They 've [ chang ] ed-
Beth:
Hal:
Beth:
                I can't get it open either, hh!
Beth:
                     the China City!
Hal:
```

The second sample is taken from the point where they have more or less settled down, to the point where the videotape runs out; a segment of about 28 minutes.

Graph 4.b.: Goodwin:DP:B: [(0.9)+] Silences

Graph 4.	D GOOGV	VIII.DI .D.	[(0.)).	DITCHCCC	_			
Pages 6-	-41 [03 : 30	0-31:41]						
(0.9)- (1.2)	(1.3)- (1.8)	(1.9)- (2.2)	(2.3)- (2.8)	(2.9)- (3.2)	(3.3)- (3.8)	(3.9)- (4.2)	+	
•								36
•								
•								
•								
•								
•								
•								
•								
•								
•								
•								
•	•							18
•	•							
•	•							
•	•							
•	•							
•	•							
•	•	•						8
•	•	•						
•	•	•						
•	•	•					(4.0) (5.6)	3 2
•	•	•	•	•			(6.0)	1

Here are the segments in which the three longer silences occur.

```
[Goodwin:DP:8:R:SO] [05:30ff]
               They didn't have all the colors, 'hh The orange is really
Beth:
               nice but they only had it in, 'hh these bowls, and uhm,
               (0.5) the coffee mugs.
Hal:
               Mmh=
               =Which is orange.
Jan:
                       (0.9)
Hal:
               The reddy orange.
               This one.
Beth:
Jan:
               °0h::.
Beth:
               The reddish,
                       (2.3)
Jan:
               Mmmm.
         **→
                       (6.0)
               Mormmy?
Josh:
                  ^{\mathsf{L}}\mathsf{We}\overline{1}\mathsf{1-} ((clears throat))
Jan:
                       (0.3)
                               know every (single col<sub>1</sub>or)
Josh:
                      We could have used a little, marijuana. to get
Jan:
               through the weekend.
Beth:
               What h appened.
                      ^{\mathsf{L}}Norma has this new hou:se. and . . .
Jan:
[Goodwin:DP:22:R:S0] [15:25-15:35]
                It's sort of like you know you get into a very like=
Fred:
                             <sup>l</sup>Mummy could I have some milk,
Josh:
Fred:
                =maniacal, like,
                          It must reall y-
Hal:
                                           Gi:verme:: the:se
Bill:
                                                         y o u completely like-
                                                 throw
Hal:
Fred:
                                                                Here-
Jan:
                        (0.2)
                mhhhh
Jan:
                It's really nice.
Fred:
                But even, if you're used to playing (it people who are)=
Hal:
                         I c(h)an't reach (
Jan:
                =really used to it,
Hal:
Beth:
               Mm-mm,
                                      just thinks that's crazy.)
Hal:
                m-m-r
                      [i]'m not so used to it.
Fred:
                        (1.0)
                True.
Fred:
         **→
                        (4.0)
                It's really wi:1d.
Fred:
                ٥(
      )°:
(
                ha:hhhhhhh<sub>r</sub>hhh
Hal:
                          hmh!
Fred:
                        (2.0)
Josh:
               Mo:re Mommy?
```

```
[Goodwin:DP:30:R:S0] [22:15ff]
                 ((Josh has just whispered a joke into Beth's ear))
                I didn't get that joke.
Hal:
                         (.)
                 I hope the c_{\underline{naMo}} ima\underline{naMo}::m,
Hal:
Josh:
                         (0.2)
Fred:
                What?
                         (0.2)
                 I didn't get that joke I hope the came ra (
Hal:
                                                                No:w we go=
Josh:
Fred:
                 =\underline{\text{upstai:rs}} and do: the bo:w_{[1]} ba(h)\underline{\text{al}}_{[1]}
Josh:
Fred:
Beth:
Fred:
              =
\begin{bmatrix} ( ) \\ ready (yet). \end{bmatrix}
Beth:
                          (.)
                 And this is a big bo: wling ( )
Do you- Can you can you (back) it up and
Josh:
Hal:
                 [monitor it you know for do you:
      ):
                            (bo:wling
Josh:
Hal:
                 You=
                 =\frac{\text{Yes}}{\text{You have two channels.}}
Fred:
Hal:
                 Bo : w 1 i n g t
                                     b a : 1 1
Josh:
Fred:
                 hh Bo [ wling bo:::=
Josh:
Bill:
                 =We got a moni tor upstairs.
Fred:
Bi11:
Josh:
          **-
                          (5.6)
                 (I'm very full.)
Hal:
                          (0.5)
Beth:
                 Do the people at your
                 (1.1)
                                          <sup>t</sup>place of work know about your
Beth:
                 condition yet?
                          (1.2)
Jan:
                 Mm:.
```

Neither of the Dinner Party samples provide for a strong display of the candidate 'standard maximum' silence. In the 'settling down' segment there is a 1-to-1 ratio as between the 10 cases of the target cluster and the 10 longer silences, and a dropoff of 10 to 4

from target cluster to next cluster. In the 'conversation proper' the ratio between the 36 target clusters and 34 longer silences is again about 1-to-1, with a dropoff of 36 to 18 from target to next cluster.

The third multi-party conversation is also divisible into two sections. The first sample, of about 26 minutes, has as one relevant activity, waiting for someone to arrive. The second sample, also of about 26 minutes, starts at the point the awaited participant arrives.

Graph 5.a.: Fr:USI:A: [(0.9)+] Silences

Pages 8-31	[ca	08:00-34:40]
------------	-----	--------------

(0.9)- (1.2)	(1.3)- (1.8)	(1.9)- (2.2)	(2.3)- (2.8)	(2.9)- (3.2)	(3.3)- (3.8)	(3.9)- (4.2)	+	_
:								65
:								
:								
•								
:								
:	•							37
•								
•	:							
•	:							
•	•							
:		:	÷				:	10
:	•	•	•	:	:		:	5 4
•	:	:	:	•	•	•	:	1

The ten longest silences, by cluster, are: two (4.3)-(4.8), one (4.9)-(5.2), one (5.3)-(5.8), two (5.9)-(6.2), three (6.3)-(6.8), and one (6.9)-(7.2). Following is a sample of the talk in which some of the longer silences occur. [Fr:USI:18-20:TR:SO] 'hh But I told her I says you ca:n't kill me with Vic: cockroach poison you go:t to u:se rat poison o:n me:. °Mm hm,°): But sometimes she (.) pass me by the poi:nt= Vic: =o[nce I h i]t her w ith a cha i:: r, Don't wise her up s h e 's liable to do it. Vic: Joe: 'h Once I hit her with a chai::r and busted her a:rm Vic: open (.) °ihh°): (0.6)Took the ten stitches to sew the a:rm up. Vic: $(1.\overline{3})$ Vic: But. (0.8)She had to pass me to- s::- so fa:r, I'm not saying so Vic: far beyond a- 'hh average individual. But so far that I couldn't took- I, couldn't took no more. ((cough)) George: (1.7)And I keep trying to tell her where I i:s, (0.5) not me: Vic: you know where I i:s, (0.2) Don't want to hear it. She just keep telling me where me is suppo:sed to be. (0.6)hee-hee hh Joe: Don't want to hear about I. Vic: **→ She's got a, she's got a magazine there she's reading Vic: this morning. She says o:ld men::, no.She says uh, uh, (1.3) I forget how the phrase was in the magazine. Says something uh-uh, 'hh uh, (1.5) old men know how to *-treat a woman or some shit like that. **→ (2.2)And I says oh you're reading a magazine she says you Vic: look at that. and I says yeh I believe it. And she says well then why can't you::, why can't you do Vic: what an old man does. You're young, (0.8)A stupid question like that I said a old man got his mind Vic: set. hhhh

(0.3)

```
eh-Shit- my ol::d luh:lady went out- My wife. went out
Vic:
              with guys fifty something years old, 'hh if they wanted
              to say I'm going away I got business to take care of
              for three days they went!
                      (0.8)
Vic:
              They did their business for three days and they came
              back and, took care of her they gi- 'hh showered her
              with, whatever kind of gifts they wanted.
(Mike):
                                      ((cough))
Vic:
              'hh In her mind stuck the showering of gifts.
                      (0.9)
Vic:
              And my mi:nd says to me, if I want to go away for two=
                                   hhhh
(Mike):
              =hours man I want to go awa:y.Shit. She wants t(h)o
Vic:
              kno(h)w, 'hh She don't want me to go:.
        **→
                     (6.5)
              °And I'm chicken.°
Vic:
                      (.)
Vic:
              And when I tell her about I, you could lead, same, old
              fashioned shit, you could lead a-a old horse to water
              but you can't make him drink, I'm thirty fi:ve. My
              wife's twenty:: six. Twenty seven. You know, 'hh I'm not
              saying I'm older than her, maybe she learned mo:re, than
              what I know.
                      (1.3)
Vic:
              But where is she:in, ih-ih-i:: where is anybody into
              telling, (0.9) I, I. (0.8) what to do.
                      (3.0)
Vic:
              You know,
```

The longest silence, (7.2), occurs between two 'topics', after a remark by a participant in the currently central interactional group to someone working in another part of the room.

```
[Fr:USI:29-30:TR:SO]
Mike:
                 Whatever those things °are called.°
                         (1.0)
Mike:
                 °Half man half horse°
                         (1.0)
                efff name is on the tip of my of \underline{\underline{\text{I'11}}} think of it.
Mike:
George:
Vic:
                                                     Monitor?
                         (1.2)
Mike:
                 Minataur no: that's not that's no:,
                         (1.0)
                 °Uhm°
Mike:
                         (4.3)
Vic:
                 i-Yeh but that's (.) th:e m: the m- (.) I don't know,
                 °tshh!°
Mike:
                 (Ih)
(Vic):
                         (0.5)
```

```
°Doesn't matter, °hh
Vic:
                      (2.5) ((bad stretch of tape, no sound))
               It's not a unico:rn but it s:(h) ure(h) is 'hhh
Mike:
Vic:
                      (0.4)
Vic:
               °He:re Joseph.°
        **→
                      \overline{(7.2)}
Vic:
               You got it?
Joe:
               I got it, yeah.
                      (0.6)
               ((cough cough)) whhhhh
Mike:
        **→
                      (5.1)
               What did you do. You left all the glass right in the
Mike:
               hallway there.
               I'm up there, I'm up there, fixing the windows::
Vic:
               This- eh this is a, lift, you know for you. You know? if
Vic:
               you want to take it as a lift.
                      (1.0)^{-}
Vic:
               I'm up there fixing the windows, and . . .
```

The talk which occurs upon the arrival of the awaited participant has a very different character, clearly visible in a comparison of the two graphs. In the 26 minute sample of talk prior to the arrival, there are 142 silences of nine-tenths second and over, 8 of them of five seconds and over. In the 26 minute sample taken from the point of arrival, there are only 34 silences of nine-tenths second and over, 1 of them over five seconds.

Graph 5.b.: Fr:USI:B: [(0.9)+] Silences

Pages 31	-69 [ca	34:40-1:0	00:40]			
			(2.3)- (2.8)		+	
:						23
: : :						
:						
:	À					7

(8.0) 2 1 In its way, the eight-second silence may be akin to the four and two-tenths seconds interval in the Dinner Party conversation, which I decline to treat as a 'silence' (see page 30). After the news delivery and several minutes of talk on other matters it appears that the participants break up into two groups, with Vic talking to George, the others talking softly to each other. Whereas in the Dinner Party materials the talk in that interval is loud and intrusive, the talk which fills the eight-second interval in the Vic-George conversation is very quiet, and may by its very quietness be problematic, motivating an attempt to hear it.

[Fr:USI:55-56:TR:SO] He says well how come you paid the rent such and Vic: such ti:me. o(I tell you. I'm gonna get sma_[shed.)° (Mike): Vic: to: ld me that I don't have to pay rent til the twenty= (Joe):)° (James): Vic: $= \frac{1}{\circ} (\text{Yeh that's really}_{[}$ (Mike):)° °Want torexplain to you (James): (Joe): °I realize it.° James: °Yeh I,know.° (Joe): l°You know what I mean?° (8.0)James: °Yeh,° (Joe): °(Well[just,)°
 "It's just \underline{I} t's just that it wasn't[(James: Mike: James: (differences ^l°So I say,° Vic:)° °You got several hangups Tchuu. Joe: Vic: Later for that. George: So I says [wo::w. okay?° Vic: James: °Ye:h.° Mike:

The next-longest silence, of three seconds, occurs when the 'key' matter is returned to; the news-deliverer making a significant

discovery in the course of a second round of the telling.

[Fr:USI:62-64:TR:SO]

Vic: It didn't break.=

James: =You don't knock the glass out like that. eghh

Vic: And it got rubber,

(0.3)

Vic: Wai:t. It's not setting in a-oih-it has what you goto=

James: eghh

Vic: =eh n::no. (.) It's a metal door.

(1.2)

Vic: It's r:rubber::, sea:med, insi:de.

** \rightarrow $\overline{(3.0)}$

George: Vic: Never be able to break that.
It's got rubber in the sea:m.

James: Yeh.

None of the materials counted for silences of nine-tenths second and over shows as strong a preponderance of the candidate 'standard maximum' silence as does the primary run. The ratios of (0.9)-(1.2) to all longer silences vary substantially.

Graph 1 (Primary Run)

951 to 329 (ca 3 to 1)

Graph 2 (Intra-Sentence Silences)

261 to 109 (ca 2.5 to 1)

Graph 3.a. (Group Therapy: 'getting started')

23 to 16 (ca 1.6 to 1)

Graph 3.b. (Group Therapy: 'session proper')

88 to 42 (ca 2 to 1)

Graph 4.a. (Dinner Party: 'settling down')

10 to 10 (1 to 1)

Graph 4.b. (Dinner Party: 'dinner proper')

36 to 34 (ca 1 to 1)

Graph 5.a. (Upholstery Shop: 'waiting')

65 to 57 (ca 1 to 1)

Graph 5.b. (Upholstery Shop: 'arrival')

23 to 10 (ca 2 to 1)

The materials are rather more consistent, although again much weaker than the primary run, when it comes to the dropoff from the

target cluster (0.9)-(1.2) to the next cluster (1.3)-(1.8).

Graph 6: Ra	atios of	Cluster	1	(0.9)-(1.2)	to	Cluster	2	(1.3)-(1.8)
-------------	----------	---------	---	-------------	----	---------	---	-------------

It may be that the phenomenon is most dramatically present in Inter-Utterance silences (see Graph 6; compare G.1., an aggregate of inter- and intra-utterance silences, with G.2., consisting exclusively of intra-utterance silences), and in that 'type' (or those 'types') of interaction which tend to occur more consistently in telephone calls; i.e., by which telephone calls are almost exclusively constituted, but which, in face-to-face environments occur in combination with other 'types' of interaction (see Graph 6; compare G.1., taken mostly from telephone material, with G.3.a.-b., G.4.a.-b., and G.5.a.-b., taken exclusively from face-to-face material).

IV. Further Possible Manifestations of the Candidate Metric

I have begun to look into another two areas in which an interval of approximately one second recurs. One is Storytelling. The other is Intra-Sentence Inbreaths. There are some preliminary indications that inbreaths are, massively, shorter than one second, and/but rarely longer. I will show examples of each phenomenon.

Following are two storytellings with recurrent [+/-] 1-second silences. They are both from face-to-face conversations; the first from multi-party, the second from two-party conversations.

```
(4.1)
       [Merritt:Egg:4-5:S0]
Halda:
              she says can I move in today.
Jean:
               °uhh!°
Halda:
              Uh I said uh,
         *→
                      (1.3)
Halda:
              well I just don't know if you can get a- uh:: w-what
              uh-uh are you gonna- have you-
                      (1.0)
Halda:
              What are you gonna do about your furniture. and she said
              I haven't got a stick of furniture!
                      (1.0)
              And ah- a:nd uh I says well-
hhh!
Halda:
Jean:
```

hhh!

Jean:

```
Halda:
              h(ha)how can you move i:n then. 'hh She said,
                      (1.0)
              oh haven't you got a little bed. or uh haven't you got a
Halda:
              bed- I- you're not gonna use or a chest of drawers or
              something.
                      (0.5)
              or a little, uh, card table or, something? and she said
Halda:
              this oh it doesn't matter, 'hh she says, oh::: she says
              I don't want to- I'm, I'm through (h)looking, I'm just
              through looking and I want to (
                                                  )- right here.
                      (1.0)
              A:nd she says I intend to furnish this house, in antique
Halda:
              furniture.
                      (1.2)
              And so uh,
Halda:
                      (0.7)
              We:11? huh, huh-huh! hhhh I was so swept off my feet,
Halda:
              and so was Ira, we were just both aghast. that,
              uhh!
Jean:
              A:nd uh, so finally-
Halda:
                                         ),
Jean:
                      (1.0)
Halda:
              uh::m, I said ye::s, I,
                      (1.0)
              I have a chest of drawer:s, that I wasn't gonna use,
Halda:
              (and uh, and uh-uh),
                      (0.7)
Halda:
              guess we could bring them up with a- 'hh
         *→
                      (1.3)
Halda:
              a bed? mattress and spring,
                      (1.0)
Halda:
              Well uh and I said I do have a card table, ye:s, and uhm
              and I said you can, probably use a couple chairs
              (couldn't you), and so uh. Well, they set up housekeeping
         %→
                      (1.3)
Halda:
              A:nd uh
                      (1.0)
Halda:
              thrilled to death.
                      (1.\overline{0})
Halda:
              Well what I started to say. Talking about your boiled
              eggs. One day . . .
(4.2)
      [O'Hare:A:2-4:SO]
Mab:
              and she said 'hh I feel u-tellibee (.) terribly
              worrie:d.
                      (0.4)
Mab:
              about Celia that's: the daughter's na::me,
                      (0.6)
Mab:
              She said she- she isn't at all well these last few
              mornings she said?
              °Mm hm,°
Gwen:
```

```
She said she's tvomiting all the time.
Mab:
Gwen:
               °Mm hm,°
               †Oo she said °Connie said° <eh:m Sylvia said °perhaps
Mab:
               she's eaten something to up 'set he:r.
Gwen:
Mab:
               No: she says not out of the ordinatry
                       (1.0)
Mab:
               Uh we-e11?
                       (0.3)
               her mother and father went ou(.)t, 'hhh one night for
Mab:
               a meal and left Connie: and Geo:rge w- now and lea:ve
               Lena and Lena and what do you call her.
                      <sup>l</sup>Ye:s,
Gwen:
                       (0.6)
Mab:
               Well ih some bo:ys who came i:n?
                       (1.0)
               And uh::
Mab:
                       (0.7)
Mab:
               they cleared off before the parents came back.
               °M-hm,°
Gwen:
Mab:
               So the following week, (.) this sickness kept o::n,
                       (1.2)
Mab:
               And eh::: she said can't understand it Celia she said
               'hh you must have eaten something very (.) p- (.)
               peculiar:. to upset your tummy like that. Oo she said
               (.) She turned to her mother quickly, oh she said you
               can expect something bigger than that,
Gwen:
               °Ohh:.°
                       (.)
               (Well) [\frac{\text{she}}{\text{Twe}}: \text{lve } \text{Gw}_{\text{f}} \text{en.}]
Gwen:
Mab:
Gwen:
                                   Oh:oh:oh: twe:l=isn't that terri,ble,
                                                                       Sh:e:
Mab:
               was twelve.
                       (1.0)
               "Isn't that (.) awful."
Gwen:
                       (1.2)
Mab:
               (I mean) she knocked her over nearly eh her mother (.)
               nearly went into pieces.
Mab:
               And she said good gracious alive she said couldn't you
               have seen befo:re?
                       (0.3)
Mab:
               what was the matter with me?
                       (1.2)
               Her mother said I don't know what you're talking about
Mab:
               or whom you're talking to:.
               °Mm hm,°
Gwen:
                       (0.9)
Gwen:
               °Te:rri,ble°
                       The says good gr:acious alive (Sylvia) hh
Mab:
               1000 she said that's why the boys come evry night
```

she said we have fine fun. Mab:

(1.2)(Fi:ne) fun, isn't that terrible. Gwen:

And following are a few of the intra-sentence inbreaths I have timed so far. As I go through the materials now, when I see a long inbreath in a transcript, I find it on the tape and time it. So far I have picked up nine, all but one of which fall into the (0.9)-(1.2)cluster, the remaining one running to (1.4).

(3.3.1.) [SBL:3:3:R:1:S0]

Milly: says . . .

(3.3.2.)[TCI(c):11:2:SO]

See w*e wanted to borrow five hundred dollars: mo:re Irene:

(3.3.3.) [MDE:60-1:7:3:SO]

And it- it was] really amazing because if you go to the Sheila: realtor::,h (0.3)

th:ey s- 'hh e-have |hou:ses and they're about four Sheila:

(3.3.4.) [DA:2:12:SO]

she kept getting sicker and sicker and uh:::: hhhhhhhhh Ellie: uh d-ed even when she said she was very sick . . .

(3.3.5.) [NB:II:4:R:22:S0]

he said I'd (.) I'd love to (.) get to the beach and *I Nancy: hhh hh hh hh he said you live at the beach too . . .

[NB:IV:10:R:26:S0] (3.3.6.)

He's gonna be very |wealthy 'some day.' h 'Cause he got Emma: a:11 these big co:ntracts with A.B.C: and hh hh hhuhhh

[_____(1.1)____] oh::: General Telephone . . .

(3.3.7.) [SF:II:15:S0]

'hhhh A:nd a:t what point did you find ou:t tha:t uh: Mark: $[\frac{\dot{h}hhhh}{\dot{h}hhhh}]^{\dot{h}he}$:r uh hhmhh what shall we call him.

(0.7)

Mark:

't uh:::m, her uh::m::,
Her old boyfriend, Bob:

And just recently I've come across another possibly interesting area; that of prolonged sounds. So, for example, in one conversation, one of the participants tends to produce extended "uh"s. I went through the tape and timed the longer ones. There are some fourteen of them which are nine-tenths second and above, and none of them are longer than one and two-tenths seconds. Here are several.

(3.4.1.) [DA:2:8:SO]

Ellie: So (w)-uh when she comes over:,

I: $\begin{bmatrix} uh::::::: \\ ---(1.0)-- \end{bmatrix}$ I'll call you, and tell you . . . Ellie:

(3.4.2.) [DA:2:9:S0]

because uh: she and I will probably uh: be spending the Ellie: day together so uh::::::: we'll go out to lu:nch . . .

(3.4.3.) [DA:2:11:S0]

how did they live uh lately.= Goldie: Ellie:

=u-They 1<u>ived</u> [<u>eh:::::::</u>] far better than a 1<u>ot</u> of . . .

(3.4.4.) [DA:2:12:S0]

But $[\frac{\text{uh}:::::::}{---(1.1)}]$ she kept getting sicker and sicker . . . Ellie:

(3.4.5.) [DA:2:15:S0]

And how is Jimmy. Goldie: Ellie: hhhhhhhhh hhhh | Uh Jimmy | 11 live his own li:fe. |

And that's a:11.Look uh::::::: the:y she was . . .

(3.4.6.)[DA:2:15:S0]

because uh 'hh she left him nothin:g with nothing but Ellie: a::: a-a-a thing full of uh: probably over his hea:d,

(1.0)

"But uh" [" But you know]... Goldie: Ellie:

(3.4.7.)[DA:2:17:SO]

unfortunately in the interim the:: several of our: Ellie:

dear friends uh you know passed away and u,h:

Anyone I Goldie:

kno[<u>:w?</u>
hhh't'hhh Ellie:

(.) Uh well I don't know whether you knew [uh:::::::] well Ellie: you remember Laura Landau don't you?

V. Discussion

In the first place, the possibility of a metric which has as one of its artifacts a 'standard maximum' silence of approximately one second emerged via a few fragments of problematic interaction (see page 6). With that possibility as an instrument for monitoring data, much blander materials, such as intra-sentence silences, inbreaths, and prolonged 'pause fillers' not only seem to yield support for the existence of such a metric, but become animated in a way that was heretofore unavailable.

Some of the intra-sentence silences have taken on a particular vividness; for example, those in which a speaker is searching for a word. Sometimes the search extends beyond the candidate 'standard maximum':

(5.1) [NB:I:5:5:SO]

And if you can bring uh (1.4) Buster Brown along with Bud: you? why bring him along.

- (5.2) [Goodwin:84:AD:41-42:S0]
- Lenny: → but some guy up in, Ed <u>Shaller or somebody up in, (1.5)</u>

 <u>Detroit built this engine and he's got over twelve</u>

 <u>hundred dollars just in the engine,</u>
- (5.3) [Cam:7:6:SO]

Mac: → Well it's: it used to be s:: eh::, (1.9) 'hh only three bo:b to get down there

But recurrently, the search is resolved at the proposed edge of the 'tolerance' for silence:

- (5.4) [Owen:8B15(A):34:SO]
- Andrea: → The biggest check <u>I</u> ever wrote out was: (1.0) 'k two hundred and thirty fi:ve (.) pounds
- (5.5) [SBL:2:1:6:R:1:S0]

Tess: You're only <u>ha</u>]ving <u>six</u> aren't $y[ou,]_{Eh}$ Aving te-e:n.hh'hhhhhhh (0.3) u-But uh:m hhh (0.3) i-See four for bri:dge and six for: (1.0) †Tripoly.

- (5.6) [SBL:2:1:8:R:1:S0]
- Nora: $\rightarrow \underline{A}:$ nd uh:*: uh:: she pro:bably wrote a: (1.0) a paper o:n it?
- (5.7) [NB:I:1:25:SO]

Bud: I've got San Juan Hills phone number here in (my)- in

→ the uh, (1.0) phone book,

(5.7) [Goodwin:84:AD:23:S0]

Bart: What's his na:me. (0.5)

Cal: → Harry uh, (1.0) Schirmer? <Shure?

(5.8) [TCII(a):14:2:S0]

EJ: Is he a ma::le? $(\overline{1.0})$

Croff: \rightarrow I had him (1.0) demaled.

(5.9) [PB:3-4:20:S0]

Merle: \rightarrow But wuh-u-we haven't seen them since, (1.0) September. Paul:

(5.10) [SBL:1:1:12:R:12:S0]

Maude:

At least I | like her | I: you know what I mean she's a

| fo:rthri:ght uh (1.0) | HARDWORKING (uh | :m) (.)

Bea: 't 'Where's she fro:m where did she trai:n.

(5.11) [GTS:I:2:49:R:SO]

(5.12) [SF:II:16:S0]

Mark: hAnd what was your immediate reaction to that.h

Bob: Oh:: I guess I was:: uh::hh,hh

Mark:

Bob: → =Well let me see::. (1.0) Plea::sed;h

Perhaps the most interesting in terms of an orientation to the candidate metric are the word searches which are not resolved at the proposed point of 'maximum tolerance', but where some activity occurs.

Again, there are longer intervals:

(5.13) [NB:II:4:R:20:S0]

Nancy: e-he's drivin:g his uhm (.) au:nt Hellen, up to uh $\underline{f::}$ $(1.\overline{9})$ °*Oh h*ell° where does she | live. Up (.) nea:r Santa(b) not s-uh:m $\overline{(0.3)}$ †0j*ai.

(5.14) [Goodwin:AD:7:R:14-15:SO] ((This is Fragment 10))

Bart: Keegan used to race uhruh- uhr it was uh:m (0.4) used to run uh::m. (3.4) oh::: sh::it. (0.3) uh::m, (0.4) Fisher's ca:r.

(5.15) [SBL:2:1:8:R:7:S0]

Nora:

I thought it was uh:m (0.3) tch (5.0) oh::-: | gee:

uhm u-one of the women who's eh: ex president of the

woman's clu:b . . .

But recurrently some activity occurs at the proposed edge of the 'tolerance' for silence:

(5.16) [NB:IV:10:R:14:S0]

 $M_{\text{A:nd he }c}$ ame in about (1.0) "let's see" fi:ve thirty, Lottie:

(5.17) [Owen:8B15(A):41:SO]

You can ge:t eh:::m (.) grape (1.0) I don't know what Andrea: they call it grape juice or grape extract=

 $= 0 \frac{Mm}{m}$ Bette:

or somethi $[\frac{ng}{\underline{Mm}}; \frac{in}{n}]^{Boot's}$: Andrea:

Bette:

(5.18) [S:PRP:7-8:S0]

I got- uh my- my evening gown was uhm uh crépeback satin. Ann:

The rea:1 hhea:vy sa:tin.

(0.5)

in the uhm (1.0) 'tch! uh: what do they ca- princess cut. Ann:

(5.19) [NB:II:2:R:15:S0]

e-He: had uhm (.) 't'hh fi:led a complaint with the Nancy:

schoo:1, (1.0) t hhhhh hhh

Emma:

that he thought Mister Bradley: (.) was uhm (1.2) 'tch Nancy:

uh::m (0.5) condoning hhhhh hhhh u h t h in:gs . .

Emma:

(5.20) [NB:III:3:R:2:S0]

We just had a vo:dka Barbara and I: just had a ni:ce Emma:

great big double vo:dka and we're having a barbequed

(1.2)

Emma:

 $\begin{bmatrix} u_{\text{Some}}^{-1} \end{bmatrix}_{\text{Someth}\underline{i}ng}$? Bud:

(5.21) [Her:III:1:5:1:S0]

'hhh Ah: he thinks that it's uh as much as anythin:g Heath:

ah:m a um:

(0.9)

ar :thritis. Joan: Heath:

Akin to the prolonged "UH"s produced by one particular speaker, an interesting little corpus of intra-sentence silences is generated

singlehandedly; in this case, by a man with a formidable stammer. In the aggregate his 'standard maximum' intra-sentence silences occur at a 4-to-1 ratio as against all longer silences, the longest of which is (1.7). Again, with the possibility of a 'maximum tolerance' for silence of approximately one second, the talk comes alive, and we can begin to watch this speaker achieving the termination of his silences within, upon, and rarely beyond that boundary. For example:

(5.22) [Her:OI:3:1:SO]

Barnaby: †A::n::d s:so (.) r-rih u- (.) really this there's nothing much else that we can do for the time being this by agreed (.) agreed to (.) to go: th- 71

- hhh We've agreed (.) agree:d to (.) to go: th- (1.0) sa:me price, (0.7) which i:s twenty six:, fa:n:d (0.2) hhh if there's going (goin:g to be any ek (.) any sor- sort of (0.5) fuss about oh well we'll: go an extra five hundred an:d so it goes back to the:m
- \rightarrow and 'hh aw-(1.0) all this:: rubbish (0.3) then (1.2) forget it.

(5.23) [Her:OI:3:9:SO]

Barnaby: The:y s:aid (.) said i-k- (.) who it i:s ih-ih-ehup- appar- apparently it's a Mister: $(\frac{1}{b})$ (1.0) *- Mister $(\frac{1}{b})$ (1.7) Blumford

It seems to me the foregoing data arrays and graphs indicate that the metric which provides for the "tendency" reported by Goldman-Eisler and Butterworth, of inter-sentence pauses in reading to be "roughly of the same length, 1.0 - 1.24 seconds", is operative in "spontaneous speech" as well. Clearly it is not as consistently manifest as other systematicities in conversation; for example, the "tendency" of a first greeting to be followed by a return greeting. And most likely it is not as consistently manifest as the (1.0)-(1.24) pause which occurs in reading - otherwise it surely would have been reported. I would then be tempted to ammend the Goldman-Eisler/Butterworth characterization of silences in "spontaneous speech".

It may be not so much that silences in conversation "vary considerably" (such a formulation invoking a free range of durations), as that they do not adhere as strictly as do silences in reading, to a Base Metric for speech.

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