Switchboard SWBD-DAMSL Shallow-Discourse-Function Annotation Coders Manual, Draft 13

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1a. Introduction

When we speak about discourse or conversational knowledge, we can talk about a number of different levels. At the level of plans and intentions, we can describe a conversation in terms of the high-level goals and plans of the participants. At the level of focus, we can describe a conversation in terms of center of attentional focus. We might call these intentional or attentional models deep discourse structure. At the level of speech acts, we can model the speech act type of each utterance. Or we can model sociolinguistic facts about conversation structure such how participants might expect one type of conversational units to be responded to by another (adjacency pairs). We refer to these latter two types of discourse structure as shallow discourse structure.

This manual describes a completed project which used a shallow discourse tagset of approximately 60 basic tags (plus combinations) to tag 1155 5-minute conversations, comprising 205,000 utterances and 1.4 million words, from the Switchboard corpus of telephone conversations. In particular, this is the thirteenth draft of the instruction manual for the discourse coders of the Discourse Language Model group of the Johns Hopkins WS97 summer large-vocabulary conversational speech recognition (LVCSR) workshop, which includes final statistics now that the coding has now been done.

The main purpose of our label set is to label these Switchboard conversations for training stochastic discourse grammars so as to build better Language Models (LM) for Automatic Speech Recognition (ASR) of Switchboard. To that end the label-set incorporates both traditional sociolinguistic and discourse-theoretic rhetorical relations/adjacency-pairs as well as some more-form-based labels. Furthermore, the label-set is structured so as to allow labelers to annotate a Switchboard conversation in about 30 minutes, by editing it with any platform-independent editor (hence the short label-names, and the use of some rich cross-dimension labels). We expect these labeled conversations also to be useful for NLP and Conversational Analysis (CA) research.

The labels were designed to be applied based on the Switchboard *written transcriptions*; this caused the label set to be somewhat more shallow than it could have been with the ability to listen to each utterance. We hope that this shallowness was balanced by the coverage; labeling quickly (conversations took around 30 minutes to label) allowed us to cover much more data.

The labeling project started March 1 1997, and finished July 5, 1997. 8 labelers are CU Boulder linguistics grad students: Debra Biasca (supervisor), Marion Bond, Traci Curl, Anu Erringer, Michelle
Gregory, Lori Heintzelman, Taimi Metzler, Amma Oduro. 1155 conversations were labeled; the average one has 144-turns, 271 utterances. By the end of the labeling the labelers took about a half hour to label a conversation (conversations averaged 5 minutes). We are currently using the Kappa statistic (Carletta 1996, Carletta et al (in press)) to assess labeling accuracy; average pairwise Kappa (as of the end of the project) was .80. The Discourse Language Modeling research group includes Becky Bates, Noah Coccaro, Thomas Crystal, Carol van Ess-Dykema, Dan Jurafsky, Rachel Martin, Marie Meteer, Klaus Ries, Liz Shriberg, Andreas Stolcke, and Paul Taylor, and external advisors who gave extremely helpful comments on the tagset were James Allen, Barbara Fox, Julia Hirschberg, Susann LuperFoy, Marilyn Walker, and Nigel Ward.

The current version of the discourse tag-set is designed as an augmentation to the Discourse Annotation and Markup System of Labeling (DAMSL) tag-set. For that reason it is designed to be read together with "James Allen and Mark Core. 1997. Draft of DAMSL: Dialog Act Markup in Several Layers. March 21, 1997", which gives the theoretical background of DAMSL-style tagging, and with Meteer (1995) "Dysfluency Annotation Stylebook for the Switchboard Corpus", which gives the annotation instructions for the previous years’ annotation of SWBD with slash units.

There is a deterministic mapping between about 80% of the "SWBD-DAMSL" labels in this document and the standard DAMSL labels, (except that some of the SWBD-DAMSL labels further subdivide the DAMSL labels). In a few cases a mapping is not possible, usually for one of two reasons: either we and the coders were unable to accurately mark a distinction which the March 21 1997 DAMSL standard requires (for example the distinction between Assert and Reassert), or we felt the need to mark extra distinctions which DAMSL doesn’t require. However in a few other cases we have proposed a minor augmentation to DAMSL which is not simply "added-subtypes"; one such example is modifying Self-Talk to include not one but 2 kinds of non-second-person-directed talk; self-talk and third-party talk). We have not attempted in this Coder’s Manual to map these DAMSL-style tags into other theories of speech acts, intention-tracking in discourse, conversational analysis, discourse commitment, centering, etc. See the DAMSL standard for more theoretical justifications for the particular tagging philosophy.

In addition to this set of labels, the WS97 project has marked other acoustic features (f0, energy, speaking rate, snr etc) of each utterance in Switchboard in another, distinct database. In addition, some of the utterances will have hand-marked pitch-accent labels and phonetic transcriptions.

1b. SWBD-DAMSL and the WS97 Language Modeling Project

The main goal of the summer Johns Hopkins LVSCR Workshop-97 summer project (July 14 - Aug 22, 1997) is to use discourse information to improve the Language Model (LM) on the Switchboard (SWBD) task. We clustered the 220 tags into 42 clustered tags, and then trained separate trigram LMs from the utterances in each of the 42 classes. Our goal is then to build a number of different ‘Utterance-Type detectors’, based on different sources of evidence for Utterance-type: prosodic, acoustic, lexical, and discourse sequence. Given an utterance from the test-set, we will use the predicted utterance-type to select the appropriate utterance-type-specific language model for the utterance. We can summarize this research plan as follows:

- Code: Hand-label utterances with discourse-tags and pitch information
- Cheat: Check: Would perfect utterance-type knowledge improve LM?
- Detect: Train various automatic utterance-type detectors
- Improve: Use utterance-type to improve SWBD LMs

We will explore various algorithms for utterance-type detection, and various combinations of them. These will include:

- Other Acoustics: Frame based analysis of raw F0, duration, energy, SNR, speaking rate
- Cue Phrases/POS/Words: Using word or tag stream to predict utterance type (Garner et al 1996, Hirschberg and Litman 1993)

1c. The 42 Clustered SWBD-DAMSL Labels

There were 220 tags used in the coding; 130 of these occurred less than 10 times each, so for our initial experiments we clustered the 220 tags into 42 larger classes. We did the clustering by removing the secondary carat-dimensions (^2,^a,g,^m,^r,e; e,q, d), with 5 exceptions. The exceptions: we left qy^d (Declarative yes-no Questions), qw^d (Declarative wh-questions) and b^m (Signal-Understanding-via-Mimic), and we folded the few examples of nn^e into ng, and ny^e into na. Then, we grouped together some tags that had very little training data; those tags that appear in the following list were grouped with other tags on the same line.

```
qr qy
fe ba
cc cc
fx sv
fo o fw " by be
aap am
arp nd
```

We also removed any line with a "@" (since @ marked slash-units with bad segmentation).

Here are the resulting 42 classes with their final counts in the WS97 training set (out of 197,489 training-set utterances, 1.4M words, 1115 conversations); (the remaining 40 conversations were saved for the test sets and so we do not include them in the statistics).

<table>
<thead>
<tr>
<th>SWBD-DAMSL</th>
<th>SWBD</th>
<th>Example</th>
<th>Cnt</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Statement-non-opinion</td>
<td>sd</td>
<td>Me, I’m in the legal department.</td>
<td>72,824</td>
<td>36%</td>
</tr>
<tr>
<td>Acknowledge (Backchannel)</td>
<td>b</td>
<td>Uh-huh.</td>
<td>37,096</td>
<td>19%</td>
</tr>
<tr>
<td>Statement-opinion</td>
<td>sv</td>
<td>I think it’s great</td>
<td>25,197</td>
<td>13%</td>
</tr>
<tr>
<td>Agree/Accept</td>
<td>aa</td>
<td>That’s exactly it.</td>
<td>10,820</td>
<td>5%</td>
</tr>
<tr>
<td>Abandoned or Turn-Exit</td>
<td>% -</td>
<td>So, -</td>
<td>10,569</td>
<td>5%</td>
</tr>
<tr>
<td>Appreciation</td>
<td>ba</td>
<td>I can imagine.</td>
<td>4,633</td>
<td>2%</td>
</tr>
<tr>
<td>Yes-No-Question</td>
<td>qy</td>
<td>Do you have to have any special training?</td>
<td>4,624</td>
<td>2%</td>
</tr>
<tr>
<td>Category</td>
<td>Example</td>
<td>Frequency</td>
<td>Percentage</td>
<td></td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------------------------------</td>
<td>-----------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Non-verbal</td>
<td>[Laughter], [Throat_clearing]</td>
<td>3,548</td>
<td>2%</td>
<td></td>
</tr>
<tr>
<td>Yes answers</td>
<td>Yes</td>
<td>2,934</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Conventional-closing</td>
<td>Well, it’s been nice talking to you.</td>
<td>2,486</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Uninterpretable</td>
<td>But, uh, yeah</td>
<td>2,158</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Wh-Question</td>
<td>Well, how old are you?</td>
<td>1,911</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>No answers</td>
<td>No</td>
<td>1,340</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Response Acknowledgement</td>
<td>Oh, okay.</td>
<td>1,277</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Hedge</td>
<td>I don’t know if I’m making any sense or not.</td>
<td>1,182</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Declarative Yes-No-Question</td>
<td>So you can afford to get a house?</td>
<td>1,174</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>Well give me a break, you know.</td>
<td>1,074</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Backchannel in question form</td>
<td>Is that right?</td>
<td>1,019</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Quotation</td>
<td>You can’t be pregnant and have cats</td>
<td>934</td>
<td>.5%</td>
<td></td>
</tr>
<tr>
<td>Summarize/reformulate</td>
<td>Oh, you mean you switched schools for the kids.</td>
<td>919</td>
<td>.5%</td>
<td></td>
</tr>
<tr>
<td>Affirmative non-yes answers</td>
<td>It is.</td>
<td>836</td>
<td>.4%</td>
<td></td>
</tr>
<tr>
<td>Action-directive</td>
<td>Why don’t you go first</td>
<td>719</td>
<td>.4%</td>
<td></td>
</tr>
<tr>
<td>Collaborative Completion</td>
<td>Who aren’t contributing.</td>
<td>699</td>
<td>.4%</td>
<td></td>
</tr>
<tr>
<td>Repeat-phrase</td>
<td>Oh, fajitas</td>
<td>660</td>
<td>.3%</td>
<td></td>
</tr>
<tr>
<td>Open-Question</td>
<td>How about you?</td>
<td>632</td>
<td>.3%</td>
<td></td>
</tr>
<tr>
<td>Rhetorical-Questions</td>
<td>Who would steal a newspaper?</td>
<td>557</td>
<td>.2%</td>
<td></td>
</tr>
<tr>
<td>Hold before answer/agreement</td>
<td>I’m drawing a blank.</td>
<td>540</td>
<td>.3%</td>
<td></td>
</tr>
<tr>
<td>Reject</td>
<td>Well, no</td>
<td>338</td>
<td>.2%</td>
<td></td>
</tr>
<tr>
<td>Negative non-no answers</td>
<td>Uh, not a whole lot.</td>
<td>292</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Signal-non-understanding</td>
<td>Excuse me?</td>
<td>288</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Other answers</td>
<td>I don’t know</td>
<td>279</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Conventional-opening</td>
<td>How are you?</td>
<td>220</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Or-Clause</td>
<td>or is it more of a company?</td>
<td>207</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Dispreferred answers</td>
<td>Well, not so much that.</td>
<td>205</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>3rd-party-talk</td>
<td>My goodness, Diane, get down from there.</td>
<td>115</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Offers, Options Commits</td>
<td>I’ll have to check that out</td>
<td>109</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Self-talk</td>
<td>What’s the word I’m looking for</td>
<td>102</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>Downplayer</td>
<td>That’s all right.</td>
<td>100</td>
<td>.1%</td>
<td></td>
</tr>
<tr>
<td>English-Tag</td>
<td>SWBD</td>
<td>DAMSL</td>
<td>Percentage</td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>------</td>
<td>-------</td>
<td>------------</td>
<td></td>
</tr>
<tr>
<td>Maybe/Accept-part</td>
<td>aap/am</td>
<td>Something like that</td>
<td>98</td>
<td>&lt;.1%</td>
</tr>
<tr>
<td>Tag-Question</td>
<td>^g</td>
<td>Right?</td>
<td>93</td>
<td>&lt;.1%</td>
</tr>
<tr>
<td>Declarative Wh-Question</td>
<td>qw^d</td>
<td>You are what kind of buff?</td>
<td>80</td>
<td>&lt;.1%</td>
</tr>
<tr>
<td>Apology</td>
<td>fa</td>
<td>I'm sorry.</td>
<td>76</td>
<td>&lt;.1%</td>
</tr>
<tr>
<td>Thanking</td>
<td>ft</td>
<td>Hey thanks a lot</td>
<td>67</td>
<td>&lt;.1%</td>
</tr>
</tbody>
</table>

1d. The Entire Label set and its mapping to DAMSL tags

Mapping of WS97 tags to DAMSL tags (see Allen and Core March 21 1997)

**Bold-faced** codes are new SWBD-DAMSL codes not in DAMSL.

<table>
<thead>
<tr>
<th>DAMSL</th>
<th>SWBD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Communicative-Status</strong></td>
<td></td>
</tr>
<tr>
<td>Uninterpretable</td>
<td>% with no a final &quot;-l&quot;</td>
</tr>
<tr>
<td>Non-verbal</td>
<td>laughter, coughs, etc</td>
</tr>
<tr>
<td>Abandoned</td>
<td>% together with -V</td>
</tr>
<tr>
<td>Self-talk</td>
<td>t1</td>
</tr>
<tr>
<td>3rd-party-talk</td>
<td>t3</td>
</tr>
</tbody>
</table>

| **Information-level** | |
| Task | DEFAULT |
| Task-management | ^t |
| Communication-management | ^c (but ^c is only a subpart of Comm-management) |
| Other | NOT CURRENTLY MARKED |

<p>| <strong>Forward-Communicative-Function</strong> | |
| Statement | s |
| Assert | (not marked) |
| Reassert | (not marked) |
| Statement-non-opinion | sd |
| Statement-opinion | sv |</p>
<table>
<thead>
<tr>
<th>Influencing-addressee-fut-actn</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Open-option</td>
<td>oo</td>
</tr>
<tr>
<td>Directive</td>
<td></td>
</tr>
<tr>
<td>Info-request</td>
<td>qy, qw, qo, qr, qrr, ^d, ^g</td>
</tr>
<tr>
<td>Yes-No-question</td>
<td>qy</td>
</tr>
<tr>
<td>Wh-Question</td>
<td>qw</td>
</tr>
<tr>
<td>Open-Question</td>
<td>qo</td>
</tr>
<tr>
<td>Or-Question</td>
<td>qr</td>
</tr>
<tr>
<td>Or-Clause</td>
<td>qrr</td>
</tr>
<tr>
<td>Declarative-Question</td>
<td>^d</td>
</tr>
<tr>
<td>Tag-Question</td>
<td>^g</td>
</tr>
<tr>
<td>Action-directive</td>
<td>ad</td>
</tr>
<tr>
<td>Committing-speaker-future-action</td>
<td></td>
</tr>
<tr>
<td>Offer</td>
<td>co</td>
</tr>
<tr>
<td>Commit</td>
<td>cc</td>
</tr>
<tr>
<td>Other-forward-function</td>
<td></td>
</tr>
<tr>
<td>Conventional-opening</td>
<td>fp</td>
</tr>
<tr>
<td>Conventional-closing</td>
<td>fc</td>
</tr>
<tr>
<td>Explicit-performative</td>
<td>fx</td>
</tr>
<tr>
<td>Exclamation</td>
<td>fe</td>
</tr>
<tr>
<td>Other-forward-function</td>
<td>fo</td>
</tr>
<tr>
<td>Thanking</td>
<td>ft</td>
</tr>
<tr>
<td>You're-Welcome</td>
<td>fw</td>
</tr>
<tr>
<td>Apology</td>
<td>fa</td>
</tr>
</tbody>
</table>

### Backwards-Communicative-Function

<table>
<thead>
<tr>
<th>Agreement</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accept</td>
<td>aa</td>
</tr>
<tr>
<td>Accept-part</td>
<td>aap</td>
</tr>
<tr>
<td>Maybe</td>
<td>am</td>
</tr>
<tr>
<td>Reject-part</td>
<td>arp</td>
</tr>
<tr>
<td>Reject</td>
<td>ar</td>
</tr>
<tr>
<td>Hold before answer/agreement</td>
<td>^h</td>
</tr>
<tr>
<td>Understanding</td>
<td></td>
</tr>
<tr>
<td>-------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>Signal-non-understanding</td>
<td>br, br^m</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Signal-understanding</td>
<td></td>
</tr>
<tr>
<td>Acknowledge</td>
<td>b, bh</td>
</tr>
<tr>
<td>Acknowledge-answer</td>
<td>bk</td>
</tr>
<tr>
<td>Repeat-phrase</td>
<td>^m</td>
</tr>
<tr>
<td>Completion</td>
<td>^2</td>
</tr>
<tr>
<td>Summarize/reformulate</td>
<td>bf</td>
</tr>
<tr>
<td>Appreciation</td>
<td>ba</td>
</tr>
<tr>
<td>Sympathy</td>
<td>by</td>
</tr>
<tr>
<td>Downplayer</td>
<td>bd</td>
</tr>
<tr>
<td>Correct-misspeaking</td>
<td>bc</td>
</tr>
<tr>
<td>Answer</td>
<td></td>
</tr>
<tr>
<td>Yes answers</td>
<td>ny</td>
</tr>
<tr>
<td>No answers</td>
<td>nn</td>
</tr>
<tr>
<td>Affirmative non-yes answers</td>
<td>na</td>
</tr>
<tr>
<td>Negative non-no answers</td>
<td>ng</td>
</tr>
<tr>
<td>Other answers</td>
<td>no</td>
</tr>
<tr>
<td>No plus expansion</td>
<td>nn^e</td>
</tr>
<tr>
<td>Yes plus expansion</td>
<td>ny^e</td>
</tr>
<tr>
<td>Statement expanding y/n answer</td>
<td>sd^e, sv^e</td>
</tr>
<tr>
<td>Expansions of y/n answers</td>
<td>^e</td>
</tr>
<tr>
<td>Dispreferred answers</td>
<td>nd</td>
</tr>
</tbody>
</table>

**Other**

| Information-relation          | NOT CODED |
| Quoted material               | ^q        |
| Hedge                         | h         |
| Segment (multi-utterance)     | +         |
| Double labels                 | x:y, [where x is the preferred label] |
| Transcription errors: slash units | o@, [anycode]@, +@ |
| Transcription errors: typographical errors | * |

Alphabetic listing of tags
(useful mnemonics:

q Question
s Statement
b Backchannel/Backwards-Looking
f Forward-Looking
a Agreements
% indeterminate, interrupted, or contains just a floor holder (see manual)
(\u [on anything] unrelated response (first utt is NOT response to previous q) * comment (followed by "*[comment...*]") after transcription to explain) + continued from previous by same speaker
@,@@,+@ incorrect transcription (can add comment to specify problem further)
^2 collaborative completion
^c about-communication
^d declarative question (question asked like a structural statement)
^e [on statements] elaborated reply to y/n question
^g tag question (question asked like a structural statement with a question tag a
^h hold (often but not always after a question) ('let me think'; question in resp
^m mimic other
^q quotation
^r repeat self
^t about-task
aap Accept-part
ad Action-directive "Go ahead", "We could go back to television shows"
aa Accept "ok", "i agree"
am Maybe
ar Reject "no",
arp Reject-part
b default agreement or continuer (uh-huh, right, yeah)
B"m Repeat-phrase
ba assessment/appreciation ("I can imagine")
bc Correct-misspeaking
bd Downplaying-response-to-sympathy/compliments ("That's all right", "that happens")
bf reFormulate/summarize; paraphrase/summary of other's utterance (as opposed to a
bh rhetorical question continuer ("Oh really?")
bk ACKNOWLEDGE-ANSWER "Oh, okay"
br Signal-non-understanding (request for repeat)
br"m Signal-non-understanding via mimic
br"c non-understanding due to problems with phone line
by sympathy comment ("I'm sorry to hear about that")
cc Commit
co Offer
fa Apology "Apologies" (this is not the "I'm sorry" of sympathy which is "by")
fc Conventional-closing
fe Exclamation "Ouch"
fo Other-forward-function
fp Conventional-opening
ft Thanks "Thank you"
fw Welcome "You're welcome"
fx Explicit-performative ("you're filed")
na a descriptive/narrative statement which acts as an affirmative answer to a ques
nd aNSwer Dispreferred (Well...)
ng a descriptive/narrative statement which acts as a negative answer to a question
nn no or variations (only)
no a response to a question that is neither affirmative nor negative (often "I don
ny yes or variations (only)
o other
oo Open-option "We could have lamb or chicken"
qh rhetorical question
qo open ended question
qr alternative ("or") question

8
an or-question clause tacked onto a yes-no question
wh-question
yes/no question
descriptive and/or narrative (listener has no basis to dispute)
viewpoint, from personal opinions to proposed general facts (listener could h
self-talk
3rd-party-talk
nonspeech

Finally, for reference, here are the original 226 tags:

70495 sd
36251 b
25709 sv
17798 +
15590 %
10159 aa
4531 ba
3787 qy
3693 x
2833 ny
2406 fc
2102 b^r
1940 sd^e
1893 qw
1343 sd("q)
1257 bk
1233 nn
1221 qy^d
1218 h
1044 bh
976 ^q
940 bf
932 sd^t
916 aa^r
808 o
765 na
720 ^2
688 b^m
666 ad
644 qo
563 qh
556 ^h
440 qy^g
303 ar
302 sv("q)
291 ng
279 no
248 sd^r
238 br
219 qr
207 fp
198 qrr
196 ny^r
181 nd
157 sv^t
137 nn^r
134 fe
131 fc^m
118 sv^e
117 t3
1e. A Sample (Short) Conversation

FILENAME: 4360_1599_1589
A1 utt1: {F Uh, } let’s see. /
A1 utt2: How [ about, + {F uh, } let’s see, about ] ten years ago, /
A1 utt3: {F uh, } what do you think was different ten years ago from now? /
B2 utt1: {D Well, } I would say as, far as social changes go, {F uh, } I think families were more
together. /
B2 utt2: [ They, + they ] did more things together. /
@A3 utt1: Uh-huh <>. /
B4 utt1: {F Uh, } they ate dinner at the table together. /
B4 utt2: {F Uh, } the parents usually took out [ time, + {F uh, } {D you know, } more time ]
then they do now to come with the children and just spend the day doing a family activity. /
A5 utt1: Uh-huh. /
B6 utt1: {F Uh, } although I’m not a mother, [ I, + I ] still think that, {F uh, } a lot has changed
since ten years ago. /
B6 utt2: {F Uh, } what # do you # --
A7 utt1: # We, # --/
B8 utt1: -- think about that? /
A9 utt1: {D Well, } {F uh, } {D actually } ten years from today seems rather short. /
B10 utt1: Yeah. /
A11 utt1: {F Uh, } {C but } I do agree that, {F uh, } generally [ it’s, + society ] has sort of, {F
uh, } let’s see, rushed everything ahead. /
B12 utt1: Uh-huh. /
A13 utt1: {C And, } {F uh, } I don’t know, /
A13 utt2: it [ leaves, + leaves ] a lot of time out for family and things like that. /
A13 utt3: In other words, they just prioritize their lives differently. /
A13 utt4: {C But } I think that has a lot to do with economic situation. /
B14 utt1: Yes. /
B14 utt2: What about {D like } as far as, {F uh, } social changes in the individual? /
B14 utt3: # Do # --
A15 utt1: # {F Uh, } #/
B16 utt1: -- you think that the individual has as much time as they did, let’s say, ten, twenty
years ago? /
A17 utt1: {F Um. } It depends. /
A17 utt2: {F Uh, } it’s hard to say because I think people were busy ten twenty years ago too. /
B18 utt1: Uh-huh. /
A.19 utt1: {F Uh, } I just , - /

B.20 utt1: {D Well, } [ how, + how ] old are you? /

b^m B.22 utt1: Twenty-eight. /

bk B.22 utt2: Okay, /

sd B.22 utt3: I'm twenty-three. /

b A.23 utt1: Yeah. /

sd B.24 utt1: {C So } there's maybe a five year gap between us. /

b A.25 utt1: Yeah. /

% B.26 utt1: {D So, } {F uh. } - /

sv A.27 utt1: [ I just, + I ] think that things [ [ were a bit, + were, ] + have been ] busy all along. /

sv A.27 utt2: It's # just # --

% B.28 utt1: # {F Huh } # <> . /

+ A.29 utt1: -- a matter where priorities are, [ at + ] placed.

aa B.30 utt1: Yes. /

+ A.31 utt1: And that, {F uh, } usually as far as families are concerned, there used to be just one person working and usually the other parent was home. /

b B.32 utt1: Uh-huh. /

sv A.33 utt1: {C And } now, {F uh, } it's pretty much an economic necessity [ [ of, + for most, ] + in most ] places for both parents to work. /

qy B.34 utt1: Do you think it's an economic [ c-, + necessity ] /

qrr B.34 utt2: {C or } do you think that [ we're, + we're, ] {F uh, } all trying to keep up with a certain standard of living? /

sv A.35 utt1: I think that's part of it too. /

sv A.35 utt2: {C But } I do think, - /

qy B.36 utt1: {E I mean } do you think,

x A.37 utt1: .

+ B.38 utt1: people really need two cars and --

nn A.39 utt1: No, /

nn^r A.39 utt2: no. /

sd^e A.39 utt3: # I don't. # /

+ B.40 utt1: -- # a house # in the suburbs {C or, } - /

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A.41 utt1: No, /

A.41 utt2: I don’t think that. /

A.41 utt3: {C But then } there are a lot of people { that, + that } don’t have that.

B.42 utt1: Uh-huh. /

A.43 utt1: But, that really do need to work. /

B.44 utt1: Uh-huh. /

A.45 utt1: I think maybe those people that really do need to work, both parents, just to survive. - /

A.45 utt2: # {C And # --

B.46 utt1: # Yeah. # /

A.47 utt1: -- then } there, [ th-, + ] [ is, + is ] that other group # that is # --

B.48 utt1: # Uh-huh. # /

A.49 utt1: -- working to maintain a standard of living --

B.50 utt1: Okay. /

A.51 utt1: -- that, {F uh, } they think [ is, + is ] surviving which is really more luxuries. /

B.52 utt1: Uh-huh. /

A.53 utt1: {F UH, } {C but } [ I + I ] tend to think that it’s less those people that have the two cars and everything than it is the group that is just trying to survive. /

B.54 utt1: [ Yo-, + {C so } you ] think it’s, - /

B.54 utt2: which group are you saying # is the one trying? # /

A.55 utt1: # I’m saying that # { the, + {F uh, } the } group that is just trying to survive from day to day, where both parents are working --

B.56 utt1: Uh-huh. /

A.57 utt1: -- is more of the majority [ than the, + than the ] people that have the higher standard of living. /

A.57 utt2: {C Because } if you look at economics across this country and statistics on who has the money and who the decreasing, {F uh, } middle class in this country --

B.58 utt1: Uh-huh. /

A.59 utt1: -- I think that that’s, in my opinion, the case. /

B.60 utt1: Okay. /

A.61 utt1: {D So. } - /

A.61 utt2: {E I mean } I have met people [ that, + {F uh, } both that, ] + that ] just want to maintain [ a, + the ] standard of living and those [ that, + that ] really need the job. /
b B.62 utt1: Okay. /
sd B.62 utt2: [C And then, ] sometimes [ I, + I ] often, { F uh, } find that maybe there’s so many different things available to us. [ Yo-, + ] a microwave, a V C R, a answering machine --
b A.63 utt1: Uh-huh. /
+ B.64 utt1: - [ [ a, + [ D you know, ] a special, ] + a ] dishwasher, { F uh, } a refrigerator and some of those items, { F um, } [ for the, + for the, ] { F uh, } - /
sv B.64 utt2: { D well } I guess we’re sticking more to social changes /
sv B.64 utt3: { C but, } { F uh } --
b A.65 utt1: Uh-huh. /
+ B.66 utt1: -- people want all of that /
sv B.66 utt2: { C and } not all of those are necessities. /
b A.67 utt1: Right. /
sv B.68 utt1: { C So } they’re trying to, - /
sv B.68 utt2: it has become a necessity ./

2. Units to label

We are labeling each "slash unit", which is something like a TCU (Sacks, Schegloff and Jefferson 1974). See the Meteer (1995) "Dysfluency Annotation Stylebook for the Switchboard Corpus" for the definition of slash units, and in particular for the heuristics used by the LDC to break complex sentences into slash units. This was done in 1995-1996; for a number of logistical reasons, in this labeling project we are treating these boundaries as unchangeable. In a future version of this document we hope to discuss the differences between these units, TCUs, and the segmentation algorithms to be written up by the DRI.

We will not be fixing what we consider mis-transcriptions, although we will be marking them to be fixed at some future date. As coded originally, the start of a slash unit is either the first word by a speaker in a conversation, or the first word after a previous "/" or "/-/"; the end of a slash unit is either "/" or "/-/".

A slash unit can consist of exactly one turn, less than one turn, or more than one turn. To determine if a turn is the end of a slash unit:

ignore the " -- " and " - " from original transcriptions
"/
 = end of complete unit
"/-
 = end of cut-off unit
Neither = unit continues to next turn by same speaker

To label slash units spanning more than one turn:

• Read up to the end of the slash unit to determine label.
• Place label at the onset of slash unit.
• Use "+" for all later turns within that slash unit.
We mark two kinds of errors in the transcriptions. Segmentation errors (either a slash unit that is too long or too short) are marked by placing an "@" after the discourse tag. Transcription errors (typos, obvious mistranscriptions) are marked with a "*" after the discourse tag.

Both kinds of errors may also have a comment at the end of the line, starting with "*[" and ending with "]".

3. Communicative-Status

<table>
<thead>
<tr>
<th>Communicative-Status</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Uninterpretable</td>
<td></td>
</tr>
<tr>
<td>Non-verbal</td>
<td>% without a final &quot;-/&quot;</td>
</tr>
<tr>
<td>Abandoned</td>
<td>x for non-verbal stuff (pure laughter, c</td>
</tr>
<tr>
<td>Self-Talk</td>
<td>% together with &quot;/&quot;</td>
</tr>
<tr>
<td>3rd-person-talk</td>
<td>t1</td>
</tr>
<tr>
<td></td>
<td>t2</td>
</tr>
<tr>
<td></td>
<td>t3</td>
</tr>
</tbody>
</table>

The DAMSL tagset is organized into orthogonal dimensions; every utterance can take a value on each of 5 dimensions. SWBD-DAMSL, by contrast, has fewer dimensions, and Communicative Status is not one of them. In DAMSL an utterance is tagged for Communicative-Status and also the other 4 dimensions, but in SWBD-DAMSL we don’t mark any other dimensions on an utterance which has any of the Communicative-Status tags (here for purely practical reasons: we were unable to do it accurately). These utterances could be viewed theoretically as "Underspecified" for the other 4 dimensions.

The DAMSL Abandoned category is marked by adding the "%" tag to those utterances that already end with a "-/". (i.e. abandonment was often already marked by the LDC).

The DAMSL Uninterpretable category has two SWBD-DAMSL subtypes, depending on whether the uninterpretable utterance was verbal or nonverbal. (this distinction is mainly motivated for speech-recognition purposes).

1) A % on an utterance (which doesn’t end in "-/") marks uninterpretable utterances that have verbal material.
2) x is used for uninterpretable utterances with solely non-verbal material.

3.01 %

The % is used if the utterance is cut off in such a way that you can’t readily tell what it would have been. A.27 utt 2, below, is not a %, because you could probably figure out that it’s an sv:

A.27 utt2: {C but, } {F uh, } I think drug testing, -/

When in doubt, use %. In general, if the utterance has four or fewer words, it is probably ’%’. In B.22
utt1, there is sufficient information to tell that an opinion (sv) is being formulated. In B.22 utt2, however, there is insufficient information:

sv  B.22 utt1: [ That’s, + {F uh, } that’s ] a little bit too, {F uh, } - /
%  B.22 utt2: (it’s such) - /
sv  B.22 utt3: they’re trying to make it too much of a crossover thing, /
qy  B.22 utt4: you know what I mean? /

% is also used to mark short "turn exits" (i.e. "Yeah" or "So" or "Or").

3.02 Self and Other-talk (t1 and t3)

Where DAMSL has a "Self-Talk" category, SWBD-DAMSL proposes that this be replaced with the NON-2ND-PERSON-TALK category, which covers all type of talk not-directed at the conversation partner. It would have subtypes "Self-Talk" (labeled "t1") and "3rd-party-talk" (labeled "t3"). 3rd-party-talk is intended to handle talk to other people than the conversation participants, in situations like the following:

B.16 utt4: Could I ask you to hold one minute? / *[this is really a Pr
A.17 utt1: Uh-huh. /
B.18 utt1: I’ll be right back. / *[ what are these?]
B.18 utt2: # Excuse me, #

%  A.19 utt1: # ({ Had-, }) # -/
+
B.20 utt1: just a moment. /
sd  B.20 utt2: They’re going to get mad . /

\textbf{t3}  
A.21 utt1: <> She had another call. /
A.21 utt2: <> She has ( just ) three kids, eleven, nine, and eight. /

*Coder’s Heuristic* for Self-talk ’t1’

If the content of speaker’s utterance does not seem to be intended for the listener to respond to, it is ’t1’. In the example below, the speaker seems to be talking to him/herself. The preceding context of the conversation makes it clear that this question (A.145 utt2) is not being addressed to Speaker B.

sd  B.144 utt1: I’ll have to tune in. /

sd  A.145 utt1: It’s on E S P N, {F uh, } /
\textbf{t1}  
A.145 utt2: at what time, /
sd  A.145 utt3: I can’t remember what time. / 
%  A.145 utt4: It’s, {F uh, } {D you know, } - /
sd  A.145 utt5: I can’t remember offhand what time. /

Things that seem somewhat self-directed like "Hmmm, let’s see" or "what else", we are not coding as \textbf{t1} but rather as \textbf{h} ("hold’s").

---

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4. Information Level

The SWBD-DAMSL "Informational Level" Dimension is a true dimension like the DAMSL Information Level dimension. The \(^t\) and \(^c\) labels can be added to any other labels from other dimensions.

<table>
<thead>
<tr>
<th>Information-level</th>
<th>DEFAULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Task</td>
<td>(^t)</td>
</tr>
<tr>
<td>Task-management</td>
<td>(^c) (but (^c) is only a subpart of Comm-man)</td>
</tr>
<tr>
<td>Communication-management</td>
<td>NOT CURRENTLY MARKED</td>
</tr>
<tr>
<td>Other</td>
<td></td>
</tr>
</tbody>
</table>

4.1 Task-Management \(^t\)

\(^t\) means "task", and is used on utterances which constitute task-management. The "task" of SWBD is hereby defined as "having and recording a conversation within X minutes about some topic area Y".

sv\(^t\) A.1 utt1: (F Uh, ) the question was kind of interesting to
sv\(^t\) A.45 utt1: (F Uh, ) probably need to try to get back on the topic
sv\(^t\) A.1 utt2: I think the first thing they said, - /
sd\(^t\) A.21 utt3: Third question was how [ m-, + ] ( () ) serving
  for their own gains do you think goes on, - /
sd\(^t\) A.1 utt2: I almost forgot what the topic was. /

b B.2 utt1: Okay. /
% B.2 utt2: (F Uh, ) # based, # -/

4.2 Communication-Management \(^c\) (and fp, fc, b, b\(^m\), see below)

The SWBD-DAMSL \(^c\) tag is an orthogonal dimension which is used to mark communication problems or specific remarks addressing communication:

qw\(^c\) A.96 utt1: Pardon me? /
qy\(^d\(^c\) A.5 utt1: I heard a laugh in the background. /
sd\(^c\) A.44 utt1: I think a train went by. /
The SWBD-DAMSL tag is only a subset of the DAMSL Communication-Management tag. Communication-Management includes a number of other things which SWBD-DAMSL does not code with. Following is a paragraph from Allen and Core (page 6), split out on separate lines together with the SWBD-DAMSL tag which corresponds with each SWBD function:

"Utterances at this level include conventional phrases that maintain contact, perception, and understanding during the communication process, and include:

- fp greetings (perFormative--oPening) (e.g., "hello"),
- fc closings (*Good Bye*),
- b acknowledgements (e.g., "Okay", "uh-huh", "m or repeating parts of what the speaker said),
- ^h stalling for time, (e.g., "Okay", "Let me see"),
- ?? or signals of speech repair (e.g. "oops") or misunderstandings."
- ^c They also might address the communication process explicitly, say to establish the communication channel (e.g. "Are you there?", and answering with "I'm here
- br.^c or to address communication problems (e.g. "Can't hear you; there's static on or to explicitly manage delays or maintain the turn (e.g "Wait a minute")

So when mapping from SWBD-DAMSL to DAMSL, the tags fp, fc, b, ^h, and br can be mapped automatically to Communication-Management.

### 5. Forward-Communicative-Function

The mapping between SWBD-DAMSL and DAMSL is most complex in the Forward-Communicative-Function and Backwards-Communicative-Functions. In DAMSL, these are completely orthogonal, allowing for 13 (Forward) x 12 (backward) or 156 possible Forward-Backward combinations. In SWBD-DAMSL, while all these 156 combinations are still technically open to the labeller, we have created "shortcut" codes for common combinations of forward and backward function.

For the first 200 conversations we also allowed the labelers to code any combination of Forward and Backwards function (with the goal of searching for extra combinations); we then took these combinations and made standard labels of them; there were very few.
5.1 Statements "s"

Statements are the most common label in SWBD-DAMSL, comprising 45% of the tokens. One of the SWBD-DAMSL/DAMSL mapping difficulties occurs with statements. SWBD-DAMSL statements are not differentiated into DAMSL’s "Assert", "Reassert" and "Other Statement". This is not for theoretical reasons; it was just not possible for us to distinguish a "Reassert" from an "Assert" in casual conversation. (In task-oriented dialog, the task often imposes enough structure on the organization and content of the conversation (Grosz 1978) that it is possible to say absolutely if some piece of information concerning the task has been previously transmitted; we were unable to do this in casual conversation).

As a result we have mapped all SWBD-DAMSL labels starting with "s" into the more abstract "Statement" node of the DAMSL hierarchy, rather than the more specific "Assert", "Reassert" or "Other Statement".
5.1.1 sd and sv

SWBD-DAMSL makes another pragmatic distinction not made in DAMSL, the distinction between "descriptive/narrative/personal" statements (sd) and "other-directed opinion statements" (sv). The distinction was designed to capture the different kinds of responses we saw to opinions (which are often countered or disagreed with via further opinions) and to statements (which more often get continuers/backchannels).

We have not yet decided whether this sd/sv distinction has been fruitful. We trained separate trigram language models on the two sets, and they looked somewhat distinct. But the distinction was very hard to make by labelers, and accounted for a large proportion of our interlabeler error.

We would just list "sd" and "sv" as subtypes of "Assert" except that they technically are an orthogonal dimension from the new/old "Assert"/"Reassert" distinction.

* Coders Heuristics *

When in doubt, it is probably sd.

Use sd when speaker is telling a story and the topic is personal (i.e., look for "I" "we" referring to speaker and his/her family or other acquaintances, not "we" referring to speaker and listener, statement about her dog, her house, her neighborhood, etc, or a statement where speaker voices his/her opinion about that topic. If it helps, think of these as 'personal statements.' one way to think about this is that sd used to have 3 subtypes:

- narrative (pieces of story)
- declarative statements (boulder is north of denver)
- personal statements (I was born in chicago, I get along well with my boss)

The third one of these looks like those "sv" opinions, but isn't, because it's something the listener doesn't really "get to be an expert on". If the statement is about something more general, that the listener could conceivably have their own (possibly differing) opinion about, then it will be sv.

Examples of sd, where speaker A is talking about his cat, from conv. sw01_4019:

qw B.8 utt1:  How about you? /
sd A.9 utt1:  {D Well, } we have a cat. {F um, } /
sd A.9 utt2:  he's probably, {F oh, } a good two years old, big, old, fat and sassy tabby. /

b B.20 utt1:  {F Huh. } /
+ A.21 utt1:  -- some reason. /
sd A.21 utt2:  He's, {F uh, } been so mean to her . /

% A.29 utt4:  # {C so. } # -/
b B.30 utt1:  # Uh-huh. # /
Example of sd, where speaker A is talking about raising boars and pigs, something he is 'expert' on according to the conversation:

sd A.13 uttl1: -- [ we, + (F uh, ) we ] killed a boar the other day, /
sd A.13 utt2: it was, (D you know, ) mating with the sows, /
sd A.13 utt3: {C and } you can't use the piglets, {D you know, } /
% A.13 utt4: {C so. } -/

Here is another example of 'sv', where Speaker A. is describing his family's camper, illustrating USE of 'sd' for a statement evaluating something the listener 'doesn't get to be expert on':

sd A.31 utt3: It's really nice, /
sd A.31 utt4: in fact, it even [ had, + had ] a little refrigerator,  
{F uh, } and the whole business. /
sd A.31 utt5: It was quite nice in that respect. /
sd A.31 utt6: {F Uh, } {C and } everything was very convenient /

Examples of sv: (topic of the opinion is general: siamese cats)

qv A.11 utt1: {F Oh. } {F Uh, } how's the disposition  
of your Siamese cat? /

sv B.12 utt1: {D Well, } it's, {F uh, } {D you know } they're  
just, { F uh, } aggressive by nature -- /

Conversation sw01_4019: talking about rabbits, which neither speaker has as a pet:

sv B.70 utt3: {C and } I would imagine that they don't have many more  
than one to start with, either. /

b A.71 utt1: Yeah. /
sv A.71 utt2: {D Well, } rabbits are darling. /
sv A.71 utt3: That would be fun if you could get them trained. /
sv A.71 utt4: Otherwise they're pretty smelly .

Here is an example of 'sv', where speaker A is talking about his/her opinion on war, something anyone may be 'expert' on:

sv A.25 utt8: {C and } I believe that the real warfare is not with  
Saddam Hussein, or the North Vietnamese, /

sv A.25 utt9: {C but } it's in spiritual kingdoms, and that the real  
warfare is done, {D you know, } in your prayer closet, on your knees.

Some clues for 'sv' are phrases like the following:

I think  
I believe  
It seems  
It's my opinion that  
I mean  
Suppose  
Of course,
Example using impersonal 'we' in an 'sv':

sv B.30 uttl: (C And, ) this is what I find particularly difficult in that, (F uh, ) if we see injustice, and weather it’s in [a, +]{F uh, }{D you know, }Chicago, [or, +{F uh, }

(These are not infallible heuristics, just helpful indicators).

Song titles, book titles, etc., usually appear in ALL CAPITALS in the transcription and will generally be coded as statements when they appear as in the following:

qw A.107 uttl2: [what kind of music [is, + does ] + # what # --
% B.108 uttl1: [# [It, + it, ] # -/
+ A.109 uttl1: -- songs does ] he play? /
sd B.110 uttl1: [Th-, + THIS ] LOVE CUTS LIKE A KNIFE.

5.3. Influencing-addressee-future-action

<table>
<thead>
<tr>
<th>DAMSL</th>
<th>SWBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influencing-addressee-fut-actn</td>
<td>oo</td>
</tr>
<tr>
<td>Open-option</td>
<td>oo</td>
</tr>
<tr>
<td>Directive</td>
<td>oo</td>
</tr>
<tr>
<td>Info-request</td>
<td>qy, qw, qo, qr, qrr, ^d, ^g</td>
</tr>
<tr>
<td>Yes-No-question</td>
<td>qy</td>
</tr>
<tr>
<td>Wh-Question</td>
<td>qw</td>
</tr>
<tr>
<td>Open-Question</td>
<td>qo</td>
</tr>
<tr>
<td>Or-Question</td>
<td>qr</td>
</tr>
<tr>
<td>Or-Clause</td>
<td>qrr</td>
</tr>
<tr>
<td>Declarative-Question</td>
<td>^d</td>
</tr>
<tr>
<td>Tag-Question</td>
<td>^g</td>
</tr>
<tr>
<td>Action-directive</td>
<td>ad</td>
</tr>
</tbody>
</table>

DAMSL Open-option directly maps to SWBD-DAMSL "oo". oo codes cases which are like commands ('Action-directive's = ad) except that with oo the talker offers the hearer multiple options; it comes across as a suggestion.

oo A.3 uttl: You can go first, /
oo A.3 uttl2: (C or ) I will. /
...
5.2.1 Action-Directive "ad" (commands, proposals, etc)

DAMSL Action-Directive is coded exactly by SWBD-DAMSL ad. It marks imperatives and commands. Because of the nature of Switchboard, most of the imperatives are commands to speak ("Go ahead", "Tell me more about that").

The syntactic realization of ad may include imperatives, questions ("Do you want to go ahead and start?"), and standard declarative clauses ("You ought to rent the, [F uh, ] F X part one.").

Some examples:

ad A.1 uttl: Go ahead. [after an overlap] /
aa B.2 uttl: {F Oh, } okay . /

B.2 uttl: [ I, + I ] think we're started now. /
A.3 uttl: {F Oh, } okay. /

B.4 uttl: {F Uh, } do you want to go ahead and start? /

A.95 uttl2: you ought to rent the, [F uh, ] F X part one. /

A.1 uttl: Tell me what you like to do. /

5.2.2. Info-request (info-questions) (qy,qw,qo,qr,qrr,∧d,∧g,qh)

The SWBD-DAMSL (qy,qw,qo,qr,qrr,∧d,∧g) tags are a proper subset of the the DAMSL Info-request tags. qy,qw,qo,qr are to be used for utterances that are jointly pragmatically, semantically, and syntactically questions. This is another case of "shortcut" tags that encode multiple dimensions; for example qy is used of a question that

1) From a discourse perspective expects a Yes or No (or constrained Other) answer
2) From a syntactic perspective has the attributes of a yes-no-question (i.e. subject-aux inversion, do-support, question intonation etc)

So "qy" would *not* be use of an action directive (command/proposal) that merely takes the *syntactic* form of a question; the following is *not* a "qy", but an "ad":

ad  A: Can you pass the salt?

What about an utterance that is pragmatically a question but has declarative syntax? These get the "declarative question" label.

****Coder’s Heuristics****

Here's a summary of what markings you should use for different things that may or may not be questions at at least one level.

<table>
<thead>
<tr>
<th>Type</th>
<th>Tag</th>
<th>Prag</th>
<th>Syn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Question</td>
<td>q</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Declarative Question</td>
<td>q^d</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Reformulation/Summarization</td>
<td>bf</td>
<td>yes</td>
<td>no</td>
</tr>
<tr>
<td>Action Directive (Command/Proposal)</td>
<td>ad</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>Continuer in the form of a Rhetorical Question (e.g. &quot;oh, really?&quot;)</td>
<td>bh</td>
<td>no</td>
<td>yes</td>
</tr>
<tr>
<td>rhetorical question</td>
<td>qh</td>
<td>no</td>
<td>yes</td>
</tr>
</tbody>
</table>

Why does SWBD-DAMSL distinguish wh-questions, yes-no questions, open-ended, and or-questions (qw,qy,qq,qr) where DAMSL doesn’t? It is not just because these questions are syntactically distinct. They also have quite different forward functions; a yes-no question is likelier to get a "yes" answer than is a wh-question.

5.2.2.1. qy

qy is used for yes-no questions only if they both have the pragmatic force of a yes-no-question *and* if they have the syntactic and prosodic markings of a yes-no question (i.e. subject-inversion, question intonation).

qy
---
B.82 uttl: Do you have to have any special training? /
qy
---
A.1 uttl: Do you know anyone that, {F uh, {F is, + is } in a
qy
---
A.1 uttl: Okay, {F um, } Chuck, do you have any pets # there at your h
qy
---
B.28 uttl: Does he bite her enough to draw blood? /
qy
---
B.48 uttl: Is that the only pet that you have? /
qy
---
A.55 uttl2: {D So } have you tried any other pets? /
qy
---
A.96 uttl3: Do you? /

Yes-no questions that are pragmatically questions but have declarative syntax are marked with ^d. Yes-no questions that are syntactically (in form) questions but do not rhetorically function as questions ("rhetorical questions") are marked either as qh or bh, depending on whether the rhetorical question is
functioning as a backchannel. See the other sections for examples of each of these other kinds of "questions".

5.2.2.2 qw

*Coder’s Heuristics*

Wh-interrogative questions. These must have subject-inversion. "Echo-questions" with wh-in-place are considered "declarative questions" (marked with \^d, see below).

\[ \text{qw} \]
- B.94 uttl: (F Um, ) what cities are they looking at? /
- B.3 uttl2: How old are your children? /
- B.48 uttl: (D Well ) what other long range goals do you have...
- A.1 uttl: (D So, ) who’s your favorite team? /
- A.1 uttl2: What kind of pets do you have? /

5.2.2.2b qw^d

These are usually but not always wh "echo-questions" (‘You said what!?’)

\[ \text{qw}^\text{d} \]
- B.22 uttl: ([C And, ) + [C and ] ] you say you’ve had him how long?
- A.3 uttl2: (D So, ) when you say the morning news, or evening news or n

5.2.2.3. qo (open-ended questions)

*Coder’s Heuristics*

These are mostly of the "how about you" variety; "qo" is meant to address the kind of questions which we think place few if any syntactic constraints on the form of the answer.

\[ \text{qo} \]
- B.4 uttl: How about you? /
- B.31 uttl3: # What do you think? # /
- B.18 uttl: How about yours? /
- Speaker B: (D So ) what are your opinions on it? /
  [HYPOTHETICAL EXAMPLE]
- A.1 uttl: What do you think about the benefits in jobs? /
- A.7 uttl: How about your community? /
5.2.2.4. qr "or"-questions

*Coder's Heuristics*

examples:

qr  B.50 uttl:  {D Well, } do you live, [ [ you, + you ] + ] in a house, or a place where you, {F uh, } -/

qr  B.95 uttl:  # {D Well } # do you all work for T I, or for, -/

qr  B.36 uttl:  # {D Now, } # [ are they, + are they ] rehabilitative [ or, + or ] not. -/

One problem with or-questions is that the listener often interrupts before the or clause is complete and answers the or-question as if it were a yes-no question about the first clause. For example

qr  B60 uttl:  Did you bring him to a doggy obedience school or --

nn  A61 uttl:  No -- /

+   B62 uttl:  -- just --

sd*e A63 uttl:  -- we never did. /

+   B64 uttl:  -- train him on your own /

We counting this as a qr since the speaker goes on to finish his qr, even though the listener answers it immediately as a yes-no question. Our current viewpoint is that if there's a conflict between labeling "what the speaker thinks" and "what the hearer thinks" go with whichever coding is more informative for the reader, which in this case is the speaker-labelling (because if you were reading the transcript you could figure out that a qr followed by a "No" answer means that the listener misinterpreted. But if you labeled it the other way (i.e. as a "qy") then it would be harder to figure out that the speaker was thinking of the utterance as an or-question.

5.2.2.5 qrr "or-clause tacked on after a y/n question"

*Coder's Heuristics*

These are used when you think the speaker tacked on an or-clause to what had been a yes-no question, so "qrr" marks a sort of "dangling or-clause", e.g. B.18.utt2.

qy  B.18 uttl:  # [ Do you watch, + # do you watch ] [ the network, + (D like ) major network ] news, /

qrr B.18 uttl2:  (C or ) do you watch (D like ) --

sd  A.19 uttl:  [ Just the # regular channel # -- +
When the speaker uses the word "or" after a qy in a slash-unit by itself at the end of a turn, it is coded as a turn-exit (i.e. %):

```
qy*     B.64 uttl: {P Uh, } is that the crime / [[*listen]]
qy      B.64 uttl2: {C and } it's already, (( )) some chart and
determine the punishment, /
%       B.64 uttl3: {C or. } -/
```

### 5.2.2.6 ^d "declarative questions"

These labels are in an independent dimension from the other question labels (qy,qw,qo,qr,qrr). Like some of the other SWBD-DAMSL "extra dimensions", these are primarily designed to code form.

Declarative questions (^d) are utterances which function pragmatically as questions but which do not have "question form". We don’t know if declarative questions will have different conversational function than non-declarative question (although see Weber 1993 for thoughts on this), but we definitely expect them to be useful for ASR language-model purposes.

Declarative questions normally have no wh-word as the argument of the verb (except in "echo-question" format), and have "declarative" word order in which the subject precedes the verb. See Webber 1993 Chapter 4 for a survey of declarative question and their various realizations.

Declarative questions *may* have rising "question-intonation". The "declarative" tag is added solely based on form. This does not mean that the intonation of the question is irrelevant. We are marking the prosodic features of each utterance in Switchboard in another, distinct database.

**Coder’s Heuristics**

These are all ^d (declarative questions): (B.46.uttl is an example of a declarative question with a wh-word)

```
qy^d     B.44 uttl: {D So } you're taking a government course? /
qw^d     B.46 uttl: At what? /
qy^d     B.46 uttl2: The university? /
qw^d     B.22 uttl: { [C And, } + {C and } you say you've had him how long?
qy^d     A.1 uttl3: I don't know if you are familiar with that. /
qy^d     A.3 uttl: {C But } not for petty theft?
qy^d     A.65 uttl: {D Well, } I guess we'll get pretty good news coverage
                in a couple of years when you host the, { P uh, }
                summer olympics . /
```

Or the following:

```
qy^d     B.2 uttl2: You're asking what my opinion about,
```
ny A.3 uttl: # Yeah. # /
+
@B.4 uttl: # whether it’s # possible to have honesty in government.

Or here’s another one:

ty A.64 uttl2: you must be a T I employee. /

However, if the statement has an "ellipsed" aux-inversion at the beginning, we don’t code it as a declarative question (following Weber 1993).

ty B.44 uttl: Worried that they’re not going to get enough attention? /

5.2.2.7 question tags (^g)

A 'tag' question consists of a statement and a 'tag' which seeks confirmation of the statement. Because the tag gives the statement the force of a question, the tag question is coded 'qy^g'. The tag may also be transcribed as a separate slash unit, in which case it is coded '^[g'.

*Coder’s Heuristic*

A question designed to check whether the listener understands what the speaker’s point is should be distinguished from a question tag. Listener may respond affirmatively that s/he understands what was said without implying agreement. "understand what I’m saying" and thus respond affirmatively to an ‘understanding check’ but disagree with speaker’s statement. The appropriate response to a tag question, on the other hand, confirms the *statement*.

The appropriate code for an understanding check is "qy"

The appropriate code for the response, like the response to a tag question, is usually ny or nn. The appropriate response to an understanding check is also 'ny' or 'nn'.

In answering a true tag, you are confirming or disconfirming the statement that precedes it.

In answering a question about 'understanding-check', listener is not taking any position on the statement that preceded it. S/he is merely indicating that the statement was understood.

Tag questions all have either an aux-inversion at the end (don’t you? doesn’t it? isn’t he? aren’t you?) which (almost always) reverses the polarity of the auxiliary in the matrix statement, or a one-word tag like ", right?" or ", huh?".

Here are some examples of ^g (tag questions): single-word tag:

qy^g A.39 uttl2: {F Uh, } I guess a year ago you’re probably watching C N N a lo
unreversed polarity, with subject-aux inverted tag:

$qy\wedge g\wedge B: \{D \ So \} you \ live \ in \ Utah \ do \ you? /$

reversed polarity, with subject-aux inverted tag:

$qy\wedge g$ A.27 utt1: That’s a problem, isn’t it? /
$qy\wedge g$ B.54 utt1: # {C But } that doesn’t eliminate it, does it? # /

tag in single slash unit:

$sd$ A.1 utt 1: Well, Hank Williams is one we forgot about. /
$^g$ A.2 utt 2: Right? /

$sd$ A.13 utt2: as a matter of fact, I want to think they took the top managers first. /
$^g$ A.13 utt3: isn’t that a fact? /

---

5.2.2.8 Rhetorical questions $qh$

*Coder’s Heuristics*

Rhetorical questions are 'qh' (question-rHetorical) as in the example(s) below:

$ad$ A.63 utt2: (C and ) think [ what, + what’s ] it going to be
like for [ [ my, + my youngest, ] + [ an + ] my oldest ] son, when he goes t
$qh$ A.63 utt3: What’s going to happen? /
$sd$ A.63 utt4: [E I mean ] [ I, + I’m ] afraid for him to go. /

+ B.52 utt1: -- like, {D you know, } the old day with the rack. /
$sv(^g)$ B.52 utt2: [ We, + they’re ] going to say, Okay, you’re guilty
you have to pay Kuwait four million dollars. /
$qh$ B.52 utt3: (D Well, ) whose going to really make them. /
$b$ A.53 utt1: Yeah. /
$sv$ B.54 utt1: Nobody. /
$b$ A.55 utt1: Yeah, /

*Coder’s Heuristic*

Be careful not to confuse rhetorical questions with 'bh', backchannels which take the syntactic form of rhetorical questions. Unlike rhetorical questions, backchannels lack semantic content:

$bh$ B.18 utt1: {F Oh, } really? /
### 5.2.3 Committing-speaker-future-action

<table>
<thead>
<tr>
<th>Committing-speaker-future-action</th>
<th>Offer</th>
<th>Commit</th>
</tr>
</thead>
<tbody>
<tr>
<td>co</td>
<td>co</td>
<td>cc</td>
</tr>
</tbody>
</table>

The SWBD-DAMSL labels "co" maps directly to DAMSL "Offer" and "cc" maps directly to DAMSL "Commit", except for one important caveat.

The caveat is that the SWBD-DAMSL tags assume that Offers and Commits only occur in the context of some sort of negotiation (in a weak sense); that not every future action ("I’m going to try out for crew next season") is an Offer.

That is, where Allen and Core say that

"the defining property of utterances with this aspect is that they potentially commit the speaker (in varying degrees of strength) to some future course of action." (p 11)

we assume this means "not all future courses of action" (since speakers often discuss "what they plan to do this weekend") but only those involving the conversational partner in some way. Here’s an example of cc where a speaker commits pushing a button:

```
^h A.5 utt1: Let me see, /
sd^t A.5 utt2: I don't know if that took or not, /
cc^t A.5 utt3: I'll do it again. /
```

b B.6 utt1: Okay. /

The distinction between Offer and Commit depends on "whether the utterance’s committment is conditional on the listener’s agreement or not." (p 11). So here’s an example of an Offer (co):

```
co A.47 utt2: we could talk about some of the long range goals /
```

Here’s a other one with an Accept (aa):

```
co A.61 utt1: I have a recipe if you want . /
aa B.62 utt1: Okay, /
aa B.62 utt2: sure, [ su-, + ] /
```

When the speaker is suggesting that the speaker is about to do something in a polite way that gives the listener a chance to say "no" in a sort of default way, this is "co":

```
co Let me ask, by the way, just for the record. /
co Let me turn off my stereo here
co Let me push the button. /
co Let me change my channel,
co Let me see if that clears this up. /
```
let me try it again because usually , (F um. } -/
Hang on let me check (( on it )) . /

5.2.4 Other-forward-function

Other-forward-function
  Conventional-opening ffp
  Conventional-closing ffc
  Explicit-performative fx
  Exclamation fe
  Other-forward-function fo, ft, fw, fa

fp openings (hi)
fc closing (bye)
ft thanks
fw you’re welcome
fa apologies (not the “I’m sorry” of sympathy, just the apology) “excuse me

fp "hello"
fe "ouch"
fe "oh, golly"
fx "you’re fired"

5.2.4.1 Openings ’fp’

Openings (fp) have often been cut out of switchboard, but some of them still remain; they may continue on for more than one slash unit. See Schegloff (1968).

fp A.1 utt1: Hi, Wanet <>. /
fp A.1 utt2: How are you? /
fp B.2 utt1: I’m doing fine. /

5.2.4.2 Closing ’fc’

Closings (fc) are much more common. They also often continue on for well more than one slash unit:

fc B.150 utt2: (D Anyway, ) it’s been nice talking to you. /
fc A.151 utt1: Yeah, /
% A.151 utt2: (D well. ) -/
% B.152 utt1: (C And, ) {F uh, } -/
Our current policy is to mark every slash-unit in the entire closing sequence as (solely) fc. That is, once the 'fc' sequence begins, in general, we will code the sequence as 'fc' until the actual closing of the conversation. These need to be looked at further to re-examine the internal structure of these closings (in particular with regard to Schegloff and Sacks 1973).

5.2.4.2 Thanks 'ft'

Mostly "thank you". Don't forget we don't mark these if they occur in the closing; then they get marked as fc.

5.2.4.3 Welcome 'fw'

Nobody says "you're welcome" any more. What they say is:

```
../sw02utt/sw_0212_2275.utt:fw
../sw06utt/sw_0634_2027.utt:fw
../sw07utt/sw_0709_2952.utt:fw
../sw08utt/sw_0871_2930.utt:fw
../sw10utt/sw_1033_2723.utt:fw
```

A.153 uttl1: Uh-huh. /
B.108 uttl1: # Okay, /
A.211 uttl1: Uh-huh. /
B.128 uttl1: You bet, /
A.147 uttl1: Yeah. /

5.2.4.3 Exclamation 'fe'

These are mostly generated by the following grammar:

(oh|well|i mean|NIL) (gosh|goodness|boy|good grief|jeez|heavens|shoot|gee whiz)

5.2.4.3 eXplicit performative 'fx'

Not very many. All "i bet you", "i wish you", or "i recommend". Here's all of them:

{(D Well ) I wish you very good luck with it
I bet you can't guess .
I am going to bet you that is a lily. Because it is,
(F Oh, ) [ I bet you those are, + I bet you what those things are, ] (F uh, ) is a
I bet you it is a Dutch iris.
I am going to bet you that,
I will bet you those are Dutch iris.
I do recommend the (( for savings )) bit.

5.2.4.3 apologies ’fa’

*Coder’s Heuristics*

"Excuse me" was coded as ’fa’ if it followed something for which the speaker was apologizing, such as a cough or an interruption. 'Excuse me' was coded as 'co' if it preceded something the speaker was negotiating permission to do in advance of doing it. If the speaker is asking permission to do something (like below, "excuse me just a second") it is 'co' If the speaker is apologizing for something s/he just did, (sneezing, coughing, etc), it is 'fa'

b  B.30 utt1:  Yeah, /
ba B.30 utt2: that is nice. / @@A: Yeah /
qy^d B.30 utt3: {E excuse me, } it sounds like we both have colds. /
ny B.31 utt1: Yeah, /

sd A.63 utt1: (D All right, ) {F uh, } {D you know, } [
 there’s bumble bee patterns + --
b B.64 utt1: Uh-huh. /
+ A.65 utt1: -- [ there’s , + {E excuse me. } {F
 Uh, } there’s ] bumble patterns, ] there’s mosquito patterns, there’s
 wasp patterns, there’s grub patterns

6. Backwards-Communicative-Function
<table>
<thead>
<tr>
<th>DAMSL</th>
<th>SWBD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Backwards-Communicative-Function</strong></td>
<td></td>
</tr>
<tr>
<td>Agreement</td>
<td></td>
</tr>
<tr>
<td>Accept</td>
<td>aa</td>
</tr>
<tr>
<td>Accept-part</td>
<td>aap</td>
</tr>
<tr>
<td>Maybe</td>
<td>am</td>
</tr>
<tr>
<td>Reject-part</td>
<td>arp</td>
</tr>
<tr>
<td>Reject</td>
<td>ar</td>
</tr>
<tr>
<td>Hold before answer/agreement</td>
<td>^h</td>
</tr>
<tr>
<td>Understanding</td>
<td></td>
</tr>
<tr>
<td>Signal-non-understanding</td>
<td>br, br^m</td>
</tr>
<tr>
<td>Signal-understanding</td>
<td></td>
</tr>
<tr>
<td>Acknowledge</td>
<td>b,bh</td>
</tr>
<tr>
<td><strong>Acknowledge-answer</strong></td>
<td>bk</td>
</tr>
<tr>
<td>Repeat-phrase</td>
<td>^m</td>
</tr>
<tr>
<td>Completion</td>
<td>^2</td>
</tr>
<tr>
<td><strong>Summarize/reformulate</strong></td>
<td>bf</td>
</tr>
<tr>
<td>Appreciation</td>
<td>ba</td>
</tr>
<tr>
<td>Sympathy</td>
<td>by</td>
</tr>
<tr>
<td>Downplayer</td>
<td>bd</td>
</tr>
<tr>
<td>Correct-misspeaking</td>
<td>bc</td>
</tr>
<tr>
<td>Answer</td>
<td>DEFAULT-for-qw,ny,nn,na,nd,ng,no,so,sv,e,s^e,sv,e,^h</td>
</tr>
<tr>
<td>Yes answers</td>
<td>ny</td>
</tr>
<tr>
<td>No answers</td>
<td>nn</td>
</tr>
<tr>
<td>Affirmative non-yes answers</td>
<td>na</td>
</tr>
<tr>
<td>Negative non-no answers</td>
<td>ng</td>
</tr>
<tr>
<td>Other answers</td>
<td>no</td>
</tr>
<tr>
<td>Expansions of y/n answers</td>
<td>^e</td>
</tr>
<tr>
<td>Dispreferred answers</td>
<td>nd</td>
</tr>
</tbody>
</table>

The backwards-communicative function breaks roughly down into Agreements, Understandings, and Answers.

### 6.1 Agreements aa,aap,am,arp,ar,ah
<table>
<thead>
<tr>
<th>DAMSL</th>
<th>SWBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accept</td>
<td>aa</td>
</tr>
<tr>
<td>Accept-part</td>
<td>aap</td>
</tr>
<tr>
<td>Maybe</td>
<td>am</td>
</tr>
<tr>
<td>Reject-part</td>
<td>arp</td>
</tr>
<tr>
<td>Reject</td>
<td>ar</td>
</tr>
<tr>
<td>Hold before answer/agreement</td>
<td>^h</td>
</tr>
</tbody>
</table>

The Agreements (Accept, Reject, Partial Accept etc) all mark the degree to which speaker accepts some previous proposal, plan, opinion, or statement. This is a generalization over the use in Allen and Core (1997), which seems to reserve Agreements for accepts or rejects of proposals, not statements.

An example of **aa** in accepting a proposal (‘ad’):

ad       | A.1 utt1: Go ahead. [after an overlap] /
aa       | B.2 utt1: (F Oh, ) okay . /

Some examples of **aa** marking agreements with previous opinions:

aa       | A.19 utt1: # that’s # what I was thinking too. /

_____________________________

aa       | A.41 utt2: Yeah /
aa       | A.41 utt3: that would be a real good idea. /

_____________________________

aa       | B.146 utt1: Yes, /
aa       | B.146 utt2: (F uh, ) that sounds like a good, +
           | that sounds like the right ] theory. /

_____________________________

sv       | B.40 utt3: That was a really good movie. /

_____________________________

aa       | A.41 utt1: It sure was. /
sv       | A.41 utt2: (C And, ) the second time you see it, you understand more subtleties in it. /
sv       | A.41 utt3: There are a number of good movies like that. /

_____________________________

sd       | B.70 utt5: I could just sit there all day and look at the scenery . /

_____________________________

aa       | A.71 utt1: Yes. /
aa       | A.73 utt1: [ I, + I ] agree. /
sd       | A.73 utt2: [ I can, + I can ] do that too, /

*Coder’s Heuristics*
We have aa's that are one-liners:

Exactly!
Definitely.
Yes. (not 'yeah')
That's a fact.
That's true.
True.

"Yeah" as 'aa':

Some 'yeah' s (and to a lesser extent, some uh-huh's) are 'aa' and some are not. They are not 'aa' if they occur alone, without some second utterance to support the idea of agreement.

We will not code a "yeah" or "uh-huh" as 'aa' unless it is followed by an additional utterance indicating agreement:

sd       B.38 utt2: I also like jazz. /

aa       A.39 utt1: Yeah. /
sd       A.39 utt2: Me [ too, + too. ] /

If there is a second statement, and it is brief, you may code the two utterances as "aa"

aa       Speaker1 utt1: Yeah.
aa       Speaker1 utt2: You're right.
(HYPOTHETICAL Example)

If there is a second statement and it is more complex, code the second statement as sd or sv, as the case may be.

sv       Speaker1 utt1: Clinton's an idiot.
aa       Speaker2 utt1: Yeah.
sd       Speaker2 utt2: He's an idiot because of his dumb welfare policy.
(HYPOTHETICAL Example)

Here is an example of a "yeah" followed by a second statement which is NOT indicating 'agreement' in the sense required to code 'aa' because it is not showing agreement but rather just continuing on with new information on the same topic:

sv       A.1 utt3: I think it's, {F uh, } refreshing to see [ the, + {F uh, } the ] support that the President got from the American people. /

b        B.2 utt1: Yeah, /
sv       B.2 utt2: [ [ [ it, + we, ] + I, ] + I ] read an interesting

* More Coder’s Heuristic’s*

Thinking alike generally constitutes agreement; being alike may not. This is demonstrated in the following HYPOTHETICAL examples:

sd       Speaker1 utt 1: I have a Mercedes.
sd       Speaker2 utt 1: Me, too.
sd Speaker1 uttl: I like Mercedes.
aa Speaker2 uttl: Me, too.

sd Speaker1 uttl: I think Mercedes are great cars.
aa Speaker2 uttl: Me, too.

Here's a reject of a previous opinion:

, + I ) don't particular like the fact that it's the military,
{ D you know, } /
sv B.37 uttl4: {} {} { C and } the whole point of the military is to kill
people essentially. { As, + as } an instrument of U S # policy. # /

ar A.38 uttl1: # { F Oh, } no, /
ar^r A.38 uttl2: # no, /
ar^r A.38 uttl3: no. /
sv A.38 uttl4: It's to defend the nation against external evils. /

A negative response to a question, statement or proposal is not necessarily a 'reject'. If the previous statement is phrased in the negative, a 'no' could be an agreement, as in the following example:

sd B.48 uttl1: { E I mean } the stuff I've read recently in
Technology Review basically indicates that acid rain may be a
little bit, { F uh, } overstated. That a lot of the die off
they've seen in forests may not really be due to acid rain at all. /
%
B.48 uttl2: { F Um, } ye-, - /
sd B.48 uttl3: I'm not an expert. /

aa A.49 uttl1: Yeah, /
aa A.49 uttl2: no. /

And a speaker can change his/her mind by accepting, then rejecting:

sd B.26 uttl1: I don't think women look good with muscles. /
aap A.27 uttl1: Up to a point. /

sd^r B.28 uttl1: Up to a point, /
ar B.28 uttl2: no, /
aa B.28 uttl3: [ m-, + ] yeah, . /

*Final Coder's Heuristics*

*Don't* use aa to code the 'yeah' "incipient speaker-shift" that we have been trying to code. Use b for that for now.

+* A.21 uttl1: { F uh, } { D you know, } I don't really feel as though
I've gotten sufficient, { F uh, } { D you know, } dose
of news that way. /

b B.22 uttl1: Yeah. /

sd B.22 uttl2: A lot of my information comes from several sources. /

sd* B.22 uttl3: Probably pretty high up on the list is National
Public Radio.
Very few of the sentences with "maybe" in them are actually MAYBE's. There were no MAYBE's in the first 25 conversations. Here are two examples:

sv  A.39 uttl: # A shotgun hurts worse # than a pistol does. /

am  B.40 uttl1: (F Uh, ) yeah. /
    B.40 uttl2: I suppose. /
sd  B.40 uttl3: I never got shot with either one. /

sd  A.105 uttl1: My husband feels that they'll come and collect everybody's guns. /

b    B.106 uttl1: Yeah. /
am   B.106 uttl2: I guess that could happen. /

sd  B.145 uttl2: (C so ) I can't complain too much. /

b    A.146 uttl1: Yeah, /
am   A.146 uttl2: I guess so. /
am   A.146 uttl3: I don't know. /

sv  B.2 uttl3: (F Uh, ) (C but ) I suspect [ it, + it ] very much depends upon the job. /

b    A.3 uttl1: Huh-uh. /

am   B.4 uttl1: Maybe. /
sv   B.4 uttl2: There are some jobs where I guess it doesn't really, /

6.2 Understanding br,b,bg,b^m,^2,bf,ba,by,bd
DAMSL | SWBD
---|---
Understanding | 
Signal-non-understanding | br, br\textsuperscript{m}
Signal-understanding | 
  Acknowledge | b,bh
  Acknowledge-answer | bk
  Repeat-phrase | \textsuperscript{^m}
  Completion | \textsuperscript{^2}
  Summarize/reformulate | bf
  Appreciation | ba
  Sympathy | by
  Downplayer | bd
  Correct-misspeaking | bc

This class includes what markers of understanding at various levels, including what Yngve (1970) called "backchannels", ("continuers" or "assessments" in the CA literature), as well as markers of misunderstanding like requests for repeat and corrections of misspeaking ("next-turn-repair-initiators"), and others. See Schegloff (1982) and Jefferson (1984) for surveys of some of these.

6.2.1 Signal-non-understanding br and br\textsuperscript{m} "requests for repeat"

*Mapping to DAMSL heuristic*: All br's are also ACTION-DIRECTIVE.

br B74 uttl: Invisible what? /

Another example:

qy\textsuperscript{d} A.64 uttl2: you must be a T I employee. /
br\textsuperscript{m} B.65 uttl: You must be what? /

6.2.2 Signal-understanding b,bh,\textsuperscript{^m},\textsuperscript{^2},bf,ba,by,bd,bc

SWBD-DAMSL has more sub-types of these than SWBD because they account for 25% of our
6.2.2.1 Acknowledge "b"

Your basic 'b' is what is usually referred to in the CA literature as a "continuer". Of the approximately 300 types (35,827 tokens) of pure b the most common ones are the following:

38% uh-huh
34% yeah
9% right
3% oh
2% yes
2% okay
2% oh yeah
1% huh
1% sure
1% um
1% huh-uh
1% uh

[Less than half a percent each:]
really
no
uh uh-huh
okay
really
yep
i see
well yeah
all right
i see
yeah
oh yes
uh yeah
yeah --
uh yeah
you know
so yeah
um uh-huh
ooh
oh no
hm
oh sure
that's right

*Coders Heuristics*

Our various experiments on marking "incipient speakership", i.e. the "yeah" that people use to mark the fact that they are about to speak, have not worked well. So for now, mark those "yeah"s with the default backchannel marker ("b").
of news that way. / *[[needs --]]

B.22 uttl: Yeah. /
B.22 uttl2: A lot of my information comes from several sources. /
B.22 uttl3: Probably pretty high up on the list is National Public Radio. *[[needs --]]

6.2.2.1b Acknowledge "bh"

"bh" is a continuers which takes the form of a question. (We are marking these distinctly because we suspect that they will mess up the prosodic utterance detector if they are just thrown in with the "b"s, since they have question intonation.)

The most common is "Oh, really?"; here’s some counts (out of ~740 bh’s from the first 755 conversations)

141 {F Oh, } really?
103 Really?
39 Is that right?
21 {F Oh, } yeah?
15 {F Oh, } is that right?
14 Do you?
12 Is it?
11 {F Oh } really?
10 {F Oh, } did you?
10 Are you?
8 Yeah?
6 {F Oh, } have you?
6 {F Oh, } do you?
6 No?
6 Did you?
5 {F Oh, } are you?
5 Was it?
5 Have you?
4 {F Oh, } is it?
3 {F Oh, } you do?
3 Isn’t that interesting?
3 Isn’t that amazing?
2 {F Oh, } it does?
2 {F Oh, } do they?
2 {F Oh, } are you really?
2 isn’t that funny?
2 You think?
2 You think so?

*Coders Heuristics*

35% of the time (in the first 755 conversations), these backchannel questions get answered with "yeah". Mark the answer ny.

A.25 uttl: It was funny. /
A.25 utt2: [ There were, + they ha-, ] {F uh, } a fireworks display at h
B.26 uttl: {F Oh, } yeah? /
A.27 uttl: Yeah, /
A.27 utt2: {C and } some paper or something in the Super Dome up in the laughter> on fire.
/

........

A.19 uttl: {C And } this lady, you would think it was her own. /
B.20 uttl: Really? /
A.21 uttl: Yeah. /
A.21 utt2: She’s real good. /

6.2.2.2 Acknowledge-Answers bk

These are acknowledgements of answers to questions. Thus, they follow a question + answer sequence. "bk" is almost always "Oh, okay" or "Oh, I see." (This is the "New information 'Oh'", see Schiffrin 1987). Sometimes 'bk' may be simply "okay." Out of the 1339 bk’s in the complete 1155 conversations:

418 okay
284 {F oh, } okay
144 oh
 48 {F oh, } I see
 48 I see
 35 uh-huh
 18 Yeah
 14 okay.
 11 {F oh, } yeah
 11 right
 11 All right
 9 {F oh, } uh-huh
 9 {F oh, } okay.

A.29 utt2: {C But, } {F uh, } {F uh, } I was just curious, what, {F uh, } part of the country. -/
B.30 uttl: {F Oh, } Stockton. /

A.31 uttl: {F Oh, } okay. /

nn
A.123 uttl: No, /
sd^e
A.123 utt2: I don’t watch TV much at all. /

bk
B.124 uttl: Okay. /
The bk 'acknowledgement' of answer may not be contiguous with the initial utterance encoding the answer to the speaker's question. Example:

qw
B.74 utt2: How'd you get involved in this research? /

sd
A.175 utt1: (F Um, ) I worked at T I for a while, /
sd
A.175 utt2: (C but ) then my brother-in-law works there, /
sd
A.175 utt3: (C and ) he got me into it. /

bk
B.176 utt1: (F Oh, ) I see. /

But a preceding question-answer pair is *required* before the label 'bk' applies:

qw
A.83 utt1: [ (E I mean ) [C but ] [ where are they, + where are they , ] ] /
qw
A.83 utt2: [ what, + what ] is their location, /
qy
A.83 utt3: is it, (F uh, ) Asian /
qrr
A.83 utt4: or is it European /
qw
A.83 utt5: (C or ) who, -/

nn
B.84 utt1: No. /

rn^r
B.84 utt2: No, /

rn^r
B.84 utt3: no. /

sd
B.84 utt4: Nissan is Japanese. /

bk
A.85 utt1: (F Oh, ) it is Japanese. /

6.2.2.3 Repeat-phrase b^m

In SWBD-DAMSL the "mimic-other-speaker" tag is in the "Form" dimension and so it's orthogonal to all other tags. This is because, since our main focus is speech-recognition, recycling of lexical material is something that we place emphasis on marking.

So the way SWBD-DAMSL codes the Backwards function "Repeat-phrase" is combining b and ^m: b^m. There are 695 of these in the 1155 conversations.

qw
B.20 utt1: (D Well, ) [ how, + how ] old are you? /

sd
A.21 utt1: I'm twenty-eight. /

b^m
B.22 utt1: Twenty-eight. /

bk
B.22 utt2: Okay, /

sd
B.22 utt3: I'm twenty-three. /
6.2.2.4 SUMMARIZE-REFORMULATE \textit{bf}

This is a new subtype of Signal-Understanding in SWBD-DAMSL which isn’t in March 21, 1997 DAMSL. A \textit{bf} reformulation is used when one speaker is proposing a summarization or paraphrase of another speaker’s talk, as in A.58:

\begin{verbatim}
sv B.53 utt1: {C And } you need a special nursing home for that. /
sv B.53 utt2: You need one that has a unit that’s locked where
        they are not able to get out and roam around -- /

b A.54 utt1: Yeah. /

sv B.55 utt1: -- {C and } you need people who are trained for
        that # type # --

b A.56 utt1: # Right. # /

+ B.57 utt1: -- of problem. /

bf A.58 utt1: Who know what they’re doing with that. /

aa B.59 utt1: Yeah /
\end{verbatim}

\textit{bf} is used when it summarizes the *other* speaker’s point: A.9 utt1 below is *not* a \textit{bf} but an \textit{sv}, since A is summarizing her/his *own* argument.

\begin{verbatim}
sd A.5 utt2: we’re not being tested for drugs at all, {F uh, } /
sd A.5 utt3: our policies and procedures manual, {F uh, } the
        furthest it goes about drugs is in [ the, + kind of the]
        miscellaneous section, or --

b B.6 utt1: Uh-huh. /

+ A.7 utt1: -- it’s reasons for immediate dismissal, /

sd^q A.7 utt2: it says, use of narcotics on company premises. /

b B.8 utt1: {F Um. } /

sv A.9 utt1: {C So } that’s pretty general. /
\end{verbatim}

*\textbf{Coders Heuristics}*

We don’t mark summarizations/reformulations of one’s own argument since they don’t have as obvious a discourse function as summarization of other-talk; summarizations of other-talk function pragmatically as questions.

Reformulations are often (about half of the time?) marked by starting with one of the following: (with statistics out of the 660 \textit{bfs} in the first 755 conversations coded:)

\begin{verbatim}
In utterance  Starts utterance
\end{verbatim}

46
About 2% of the reformulations have 'you mean' somewhere within the utterance:

+ B.30 uttl: makes you cry it sounds so sad # . /  
sv B.30 uttl2: {E I mean } you d-, # -/

bf A.31 uttl: # That's the # kind you like you mean? /  

aa B.32 uttl: Yeah. /

Some assorted examples from different conversations:

bf B.42 uttl2: {C so } it's fairly safe. /  
bf B.76 uttl: {F Oh, } {C so } they don't go to school. /  
bf B.6 uttl1: # {F ((Oh))} } they thought it was too much of a  
bf B.10 uttl2: You're very close actually. /

An example of a syntactic question rather than a 'bf':

sd A.43 uttl4: [ I, + I ] [ d-, + don't ] feel comfortable about  
leaving my kids in a big day care center, [ but, + ] simply because  
there's so many kids and so many , -/

qv B.44 uttl1: Worried that they're not going to get enough  
attention? /

ny A.45 uttl1: Yeah. /  
sv'ny A.45 uttl2: {C and, } {F uh, } {D you know, } colds and  
things like that get --

*Coder's Heuristic for Response to 'bf'*

Reformulations 'bf'(and Completion ^2, see 6.2.2.5, below) function as understanding-checks; they are pragmatically questions (the implicit question being something like "is this an acceptable summary of your talk?") (though it is not syntactically formed as a question). They often get responses which indicate understanding. When this occurs, we will code the response which agrees with and/or accepts the understanding check as 'aa' and the response which indicates the reformulation was not accurate as 'ar' ('reject'). Partial acceptance 'aap' and partial rejections 'aar' are possible.

So the "yeah" response which often follows a "bf" is an "aa", not a "b" backchannel, or an 'ny' 'aNSwer-Yes'.

bf A.31 uttl1: # That's the # kind you like you mean? /  
aa B.32 uttl1: Yeah. /

6.2.2.5 Completion ^2
^2 marks Completions (also called "collaborative completions"). It can be combined with other labels or used alone:

sv

A.23 utt3: In other words, [ you'd have to, + you'd have to ]
murder more than one other person --

^2

B.24 uttl: Besides him. /

Completions '^^2' (like 'bf') also function as an understanding-check. They often get responses which indicate understanding. When this occurs, we will code the response which agrees with and/or accepts the completion '^^2' as 'aa' and the response which indicates the completion was inaccurate as 'ar' ('reject'). Partial acceptance 'aap' and partial rejections 'aar' are possible.

^2

B.92 uttl: Educational or vocational training or something. /

aa

A.93 uttl: Yeah. /

sv

A.93 uttt2: Something that's going to help them along the way. /

6.2.2.6 BACKWARDS-ATTITUDE ba,by,bd

These are in SWBD-DAMSL but not in DAMSL. ba is especially common.

6.2.2.6.1. ba. Assessments/Appreciations:

A backchannel/continuer which functions to express slightly more emotional involvement and support than just "uh-huh". Some examples:

ba

A.27 uttt2: I can understand that. /
ba

A.31 uttl: That would be nice. /
ba

A.40 uttl: I can imagine. /
ba

B.38 uttt2: It must have been tough. /
ba

B.13 uttt3: That is good. /
ba

A29 uttl: {F Oh, } {F oh, } great. /
ba

A11 uttl: {F Oh, } he'll be delighted. /
ba

B22 uttl: #That's great.# /
ba

B30 uttl: That's great! /
ba

B50 uttl: {F Oh, } that's great. /
ba

A37 uttl: That's probably a good idea. /
ba

B32 uttt2: that makes sense. /
ba

A.35 uttl: You bet. /
ba

B.98 uttl: {C And, } {F uh, } I know exactly what you mean. /

And in context:

sd

B.13 uttl: -- {F uh, } especially [ if, + if ] it's after an acute illness. /
6.2.2.6.2 by and bd "sYmpathy" and "Downplayers" of sympathy and compliments

These are subtypes of BACKWARDS-ATTITUDE which express not just acknowledge or understanding, but also further emotional involvement.

by A.44 utt1: I'm real sorry. /

Actual apologies (for doing something), as opposed to markers of sympathies, are tagged as "fa", see above.

bd is any downplayer that speakers use to respond to apologize.

bd B.45 utt1: That's all right. /

Downplayers are also used to respond to compliments. In the example below, speaker B has just finished going into detail about the topic under discussion, showing his obvious expertise:

sv A.24 utt1: {D Well, } [ you are. + you are ] well versed on the subject, I tell you. /

bd B.25 utt1: {D Well, } I don't know. /

sd A.26 utt1: This is not one of my better ones. /

Most common types: (counts from the 1155 conversations)

19 that's okay
7 no
5 that's okay
5 that's all right
4 okay
3 {F oh, } that's okay
2 it's okay
2 Uh-huh
2 No
1 {F um, } {C but } it's okay
1 {F oh, } {D well. }