Getting going with groups

COGS 200

October 7, 2014

Just so you know…

- Next class: Review of Translation
  - Chris will present a short overview of the highlights
  - **You will ask questions about issues you aren't sure you understand**
  - Chris, Bob and Laurie will answer them

Today's objectives

- Requirements for final project
  - Deliverables
  - Schedule
- Why work in groups?
- Group Midterm
- Group contract

Final Project:
Research **Proposal** and **Poster**

- Research proposal content might be…
  - Developing computational/robotic system
  - Testing an empirical hypothesis
  - Gathering data to explore a philosophical theory
- Innovative
- Informed by current research
- Feasible
  - Constrained by reality
  - Not constrained by practicalities
- MUST involve AT LEAST two areas of COGS

Deliverable #1: Contract

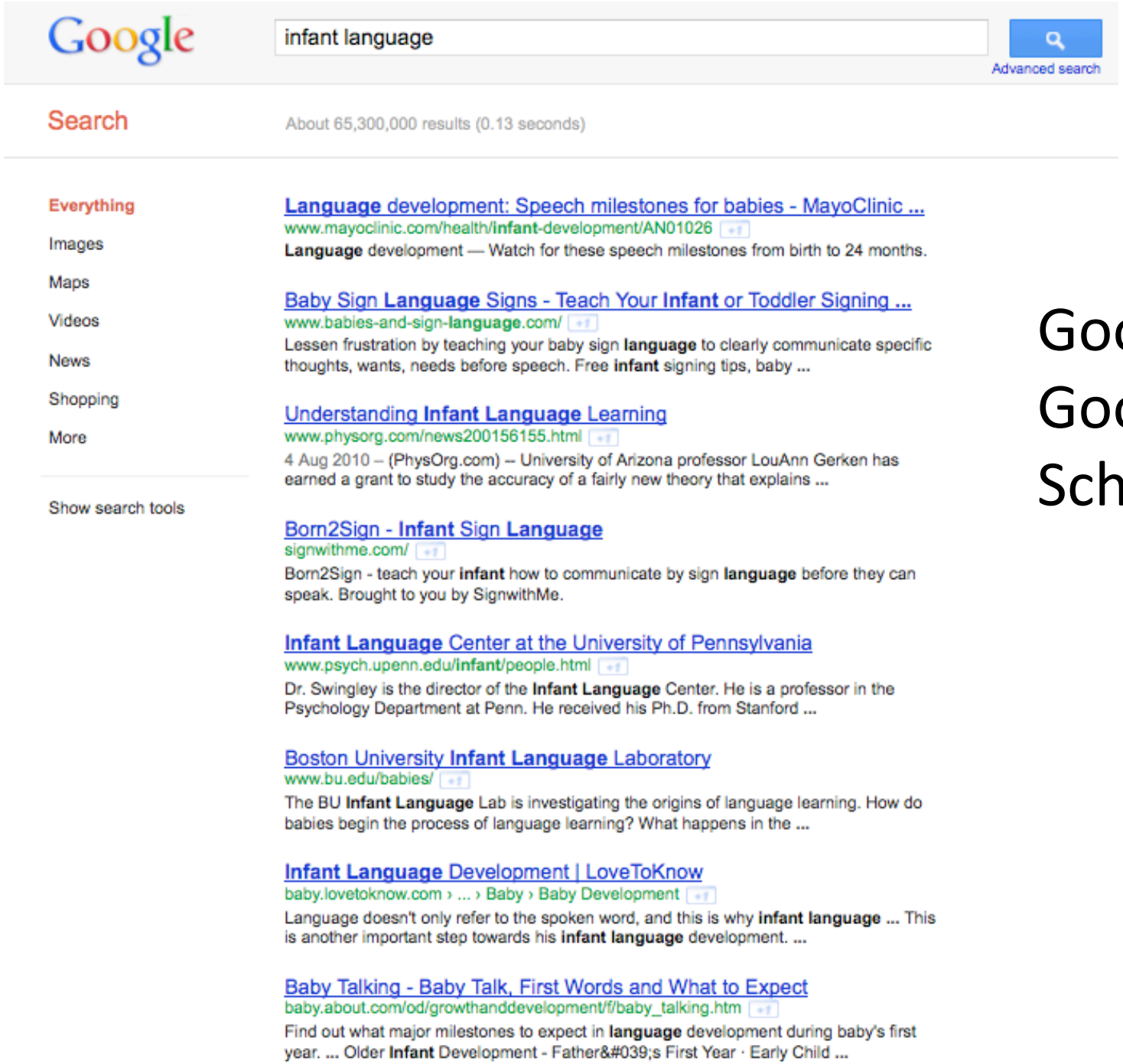
- Done in class today
- Up to one page long
- Suggested content: ground rules
  - Expectations of group members
  - Individual responsibilities
  - How often meet; where
  - How agenda is set
  - Group deadlines for deliverables
- Everyone in the group must sign

Deliverable #2: Proposal outline

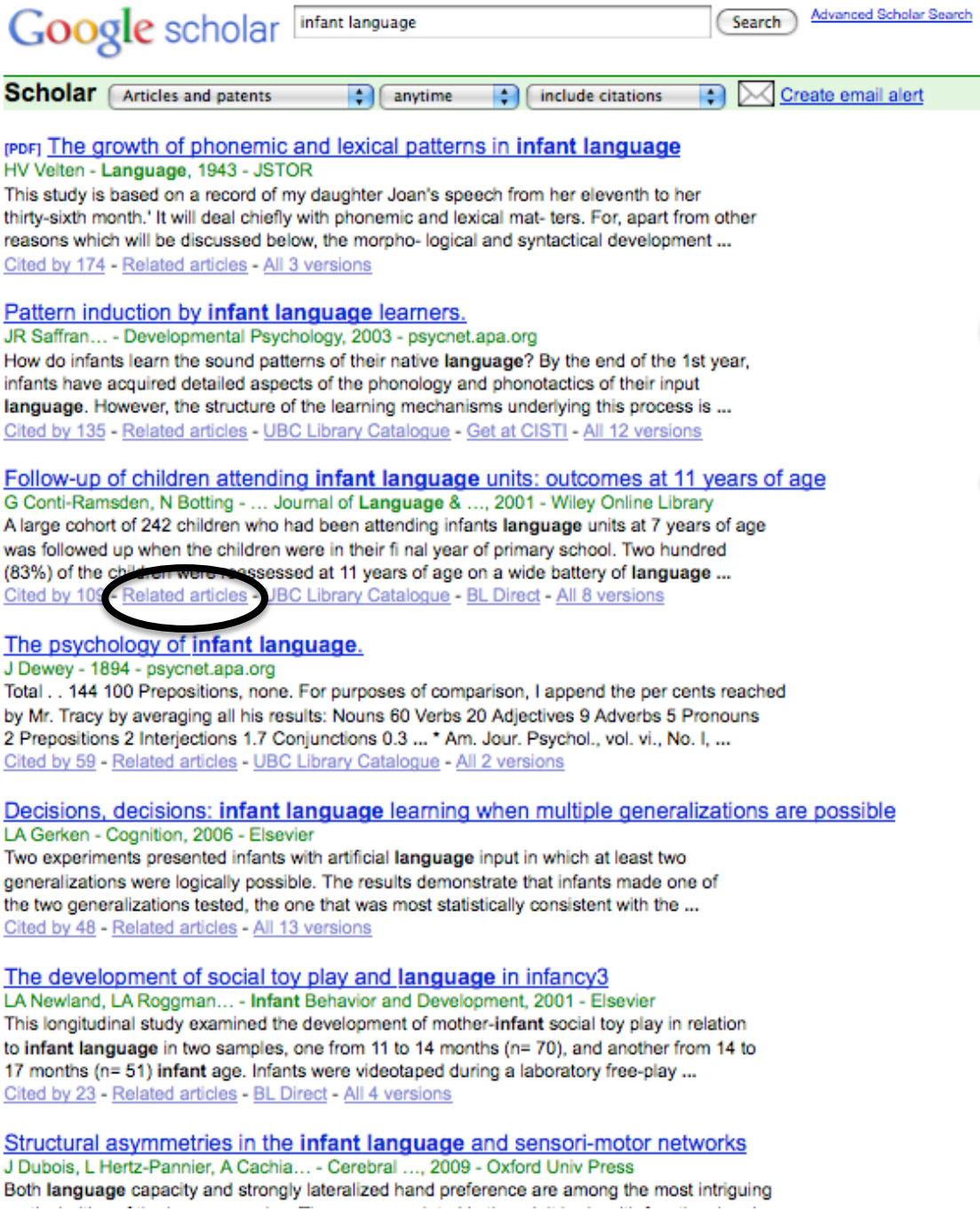
- **What**, **why**, and **how**
- Make clear how the proposal encompasses at least two COGS disciplines
- Refer to literature where relevant
- Format
  - Maximum two pages; one page is adequate
  - 12 point, Times font, single-spaced
  - At least one inch margins all sides
- Due: October 30
  - Oct. 29: Science Scholar Dinner and the night before first group assignment is due. Work on the assignment early so that you can go to the dinner, if you are a Science Scholar.

Deliverable #2: Annotated bibliography

- List of relevant literature
- Each entry also has one or two line summary/ explanation of relevance
  - Check out Groome et al. reading (Psychology Introduction) for an example
- Format
  - Be consistent
  - http://help.library.ubc.ca/evaluating-and-citing-sources/how-to-cite/
  - Maximum 1 page; 12 point Times font; ≥ 1 inch margins
- Due: October 30



Google vs. Google Scholar



Google vs. Google Scholar

Deliverable #3: Full proposal

- **What**, **why**, and **how**
- Possible sections
  - Thesis statement/Introduction: **What** is the point?
  - Background: **Why** is it important? Give relevant background research.
  - Methods: **How** you propose to solve the problem/address the question
    - specific experimental or logical approach
    - modules and/or algorithms
  - Discussion: Why did you choose the method/approach that you did? What results do you predict? How will you evaluate the performance of your system if building software/hardware?
  - Conclusion: What insights did you gain from considering this research? What would this research contribute to our knowledge of your question?

Deliverable #3: Full proposal

- Maximum 5 pages; 12 point font; ≥ 1 inch margins
- References, tables, figures do NOT count toward 5 page limit
- Proposals exceeding this limit may be penalized
- Due: November 25

Deliverable #3: Poster

- Visual expression of research
- **What**, **why**, and **how**
- Clear, concise, engaging
  - Minimize text
  - Maximize visuals (diagrams, drawings, etc.)
- ALL group members must be prepared to present poster and answer questions
- Poster size: about 3 feet x 4 feet
- Poster presentation: November 25

Deliverable #3: Division-of-labour report

- Submit a statement saying
  - You have all abided by the contract you devise today (or why you haven't)
  - You have all contributed fairly to producing the project and in what ways
- **Signed by all group members**
- 5% deduction for each member if DOL is not turned in
- Due: November 25

Why work in groups?

- Collaborative work increasingly a fact of academic life
- Multi-authored publications
  - Management: 1960s: 18% → 70s: 48% → 80s: 60%
  - Bioethics: 1990's: 76% → 64%
  - Across nearly all disciplines
  - (Extreme cases
    - NE J of Medicine: > 900 authors
    - High-energy physics: 2926 authors)

Science…

- *Nature*. 2006 May 18;441(7091):315-21.
- The DNA sequence and biological annotation of human chromosome 1.
- Gregory SG, Barlow KF, McLay KE, Kaul R, Swarbreck D, Dunham A, Scott CE, Howe KL, Woodfine K, Spencer CC, Jones MC, Gillson C, Searle S, Zhou Y, Kokocinski F, McDonald L, Evans R, Phillips K, Atkinson A, Cooper R, Jones C, Hall RE, Andrews TD, Lloyd C, Ainscough R, Almeida JP, Ambrose KD, Anderson F, Andrew RW, Ashwell RI, Aubin K, Babbage AK, Bagguley CL, Bailey J, Beasley H, Bethel G, Bird CP, Bray-Allen S, Brown JY, Brown AJ, Buckley D, Burton J, Bye J, Carder C, Chapman JC, Clark SY, Clarke G, Clee C, Cobley V, Collier RE, Corby N, Coville GJ, Davies J, Deadman R, Dunn M, Earthrowl M, Ellington AG, Errington H, Frankish A, Frankland J, French L, Garner P, Garnett J, Gay L, Ghori MR, Gibson R, Gilby LM, Gillett W, Glithero RJ, Grafham DV, Griffiths C, Griffiths-Jones S, Grocock R, Hammond S, Harrison ES, Hart E, Haugen E, Heath PD, Holmes S, Holt K, Howden PJ, Hunt AR, Hunt SE, Hunter G, Isherwood J, James R, Johnson C, Johnson D, Joy A, Kay M, Kershaw JK, Kibukawa M, Kimberley AM, King A, Knights AJ, Lad H, Laird G, Lawlor S, Leongamornlert DA, Lloyd DM, Loveland J, Lovell J, Lush MJ, Lyne R, Martin S, Mashreghi-Mohammadi M, Matthews L, Matthews NS, McLaren S, Milne S, Mistry S, Moore MJ, Nickerson T, O'Dell CN, Oliver K, Palmeiri A, Palmer SA, Parker A, Patel D, Pearce AV, Peck AI, Pelan S, Phelps K, Phillimore BJ, Plumb R, Rajan J, Raymond C, Rouse G, Saenphimmachak C, Sehra HK, Sheridan E, Shownkeen R, Sims S, Skuce CD, Smith M, Steward C, Subramanian S, Sycamore N, Tracey A, Tromans A, Van Helmond Z, Wall M, Wallis JM, White S, Whitehead SL, Wilkinson JE, Willey DL, Williams H, Wilming L, Wray PW, Wu Z, Coulson A, Vaudin M, Sulston JE, Durbin R, Hubbard T, Wooster R, Dunham I, Carter NP, McVean G, Ross MT, Harrow J, Olson MV, Beck S, Rogers J, Bentley DR, Banerjee R, Bryant SP, Burford DC, Burrill WD, Clegg SM, Dhami P, Dovey O, Faulkner LM, Gribble SM, Langford CF, Pandian RD, Porter KM, Prigmore E.

Computer software (Adobe Professional)

Well, maybe not *every* field…

Philosophy

- ***The Cambridge Quarterly***

Nineteen Fifty-Eight: Information Technology and the Reconceptualisation of Creativity

Christopher Mole

Collaboration

- Workplace
- Government
- Family
- …you get the picture

Models for working in groups

- Division of labor
  - Each has one task
  - Suited to strengths
  - But remember: **all** groups members are responsible at poster presentation
- True collaboration
  - More than one person work on each section
- Consensus vs. democracy

Approaches that **WON'T** work

- "I'm the smartest in the group; I'll do it all."
- "I'm the dumbest in the group; I'll let everyone else do it."
- "I'm a psychologist; I don't know anything about computer science."
- "I don't like our topic, so I'm going to let them do it."

Approaches that **WILL** work

- “I’m really good at this topic; I’ll teach everyone else what I know.”
- “I don’t know much about this topic; I’ll ask lots of questions and learn.”
- “I don’t like this topic; I’ll give some other ideas to my group members and see if we can change it.”
- “I want everyone in my group to understand our project, contribute to it, and do really well.”
- “Something isn’t working well; I’ll get my group together to talk about it.”
- “Something REALLY isn’t working well. Our group had better talk to a prof. Now.”

Group Midterm

- A chance to
  - Get to know your group
  - Get to know how your group works
- All groups will be given a set of questions
  - From reading and/or lecture
  - Similar to assignments
- Each group will answer three questions, of their choosing, out of the set
  - One set of answers turned in for the entire group.
- Bring your own paper
- In class, October 14

Deadlines for Group work

- Today: Group contract
  - Or as soon as you get everyone's signature if you are missing members (latest: class October 9)
- October 14
  - Group Midterm
- October 30
  - Group Proposal outline and
  - Annotated bibliography
- November 25
  - Final research proposal
  - Poster
  - Division-of-Labour report

Group contract

- In a minute…sit with your group
- Up to one page long
- Suggested content: ground rules
  - Expectations of group members
  - Individual responsibilities
  - How often meet; where
  - How agenda is set
  - Group deadlines for deliverables
- Everyone in the group must sign
- **Hand it in when complete**
- In any time remaining: brainstorm ideas for your project; set time, agenda for next meeting

18	11403145
10	11743144
21	12255113
3	13786141
4	14958136
3	15858146
10	16040131
23	17590134
3	19870147
25	20674140
2	20867131
11	21952056
6	23079130
1	24709131
21	25386146
21	26190116
4	27711035
13	28184091
13	29694122
2	30402119
12	30986111
17	31137136
23	31251135
16	31303134
17	31328123
15	31702137
4	31721137
25	32009110
6	32877110
24	33173139
12	33803131
24	34247122
10	34390138
9	34975136
16	35114131
26	35145135
14	35506138
18	35837129
11	36396117
7	36893121
26	36984128
24	37588134
20	37802121
6	37993136
5	38134110
3	38139127
23	38215133
19	38785127
14	38902136
18	39520144
18	39588132
7	39619135
25	39736137
16	40091092
5	42172130
8	42642132
27	43263145
13	43645143
25	44262095
11	44578110
6	44652148
19	45063147
22	45626132
13	45807120
22	46024113
19	46151122
1	46267126
5	46634135
12	47208087
7	47615125
20	48110134
9	49120141
9	49295141
2	49935142
15	50408129
8	50471127
26	50495134
15	51691137
11	51847135
27	52311859
19	52659133
22	53031134
15	53368130
20	54178132

Please note your group number, to the left of your student number.

9	54207139
5	55307145
26	55555149
8	55650148
7	55923149
17	56242134
23	56437130
20	56740137
17	57606139
2	58541137
22	60095149
16	60131142
14	60747086
1	61665089
21	65008047
8	66772120
10	68702083
14	70834149
24	70836144
12	75745091
27	80390016
1	99416075

Seating chart

Group 1	Group 8	Group 15	Group 22
Group 2	Group 9	Group 16	Group 23
Group 3	Group 10	Group 17	Group 24
Group 4	Group 11	Group 18	Group 25
Group 5	Group 12	Group 19	Group 26
Group 6	Group 13	Group 20	Group 27
Group 7	Group 14	Group 21	

Front of classroom

Be sure to hand in your group contract before you leave today, if all your group members are here.