



MULTILINGUALISM AND LANGUAGE LEARNING: MYTHS, FACTS, AND CHALLENGES

Antonella Sorace University of Edinburgh & Bilingualism Matters antonella@ling.ed.ac.uk





- What does it mean to be 'bilingual'?
- Brief tour of misconceptions and research
- Some studies on language learning and bilingualism in schools



Misconceptions on bilingualism



Confusion





Developmental delays



Problems at school



'Useful' and 'useless' languages





Five-minute tour of research









 Early perceptual separation of the two languages

 Similar stages and milestones in bilingual and monolingual language development









The movie star screamed.

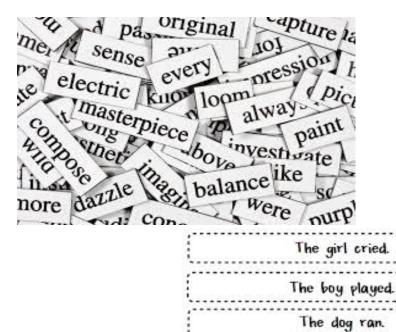
The fireman yelled.

The policeman drove.



Bilingual children 'notice' how language works

WORDS



SOUNDS



SENTENCES





Easier to learn other languages; potential better understanding of the structure of the majority language.



Competence and creativity in language mixing







 Good metalinguistic abilities



 Transfer of aspects of early literacy from one language to the other (when a sufficient vocabulary is learned)

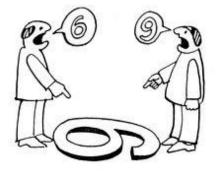




Multilingualism: cognitive effects



 Better awareness of other people's perspectives



 Better selective attention and ability to handle conflicting information PURPLE YELLOW RED BLACK RED GREEN RED YELLOW ORANGE BLUE PURPLE BLACK RED GREEN ORANGE

 Better cognitive flexibility in task switching





Reasoning and problem solving



Benefits for some types of logical and mathematical reasoning...



... and problem-solving abilities



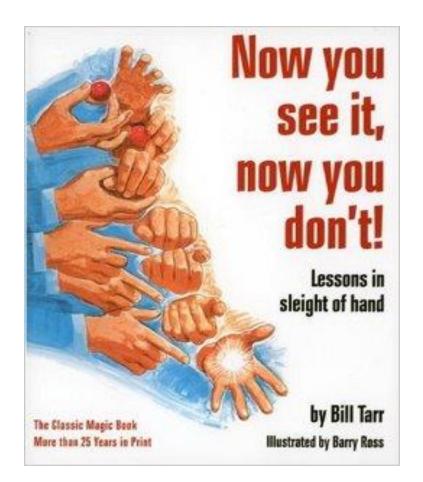


Bilingualism = automatic benefits?



 "Now you see it, now you don't" (but no studies report a DISadvantage of bilingualism).

 Bilingualism comes in many shapes and colours





Children need input in both languages



Bilingual children need to hear enough of both languages.









Variety of speakers



Hearing the language from different speakers is important to learn what is possible and what is impossible in the language.





Social and family attitudes



 both languages and both cultures are valued by the family and the community.

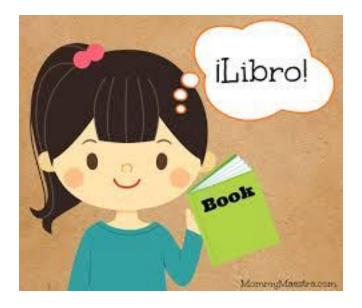




Important to now that...



 Bilingual children have two vocabularies: all other things being equal, the size of vocabulary in each language is smaller than in monolinguals, especially in the first few years and in the weaker language.





Important to know that...



- Children who have a home language different from the community language may go through a 'silent period' in which they produce very little.
- Some types of SLI and child L2 learning may look similar, but their developmental paths over time are different.









 Language Learning in Scotland: 1+2 plan





Language learning at school: realistic expectations



- One hour a week (or less): what can be achieved at different ages?
- Monolingual and bilingual children: do they learn differently?





Early Chinese Learning Project



- Testing stage 1: P1 children from monolingual homes.
- Testing stage 2 : P3 children from bilingual and monolingual homes









- We train volunteer students who are native speakers of Mandarin, Spanish and French to work with the teacher in P1 classes.
- We act as a point of reference for questions on child language learning during the project.
- We do research on the outcome of the project





- Testing at stage 1:
 - School A: 25 weekly sessions of 1hr 30 hours. Cumulative input = 37.5 hours; More native tutor-led activities.
 - School B: 26 weekly sessions of 45 minutes. Cumulative input
 = 19.5 hours
 - School C: 25 weekly sessions of about 1hr 45mins. Cumulative input = 43.75 hours; more teacher-led activities.
 - School Y: no input





- What were the outcomes of the learning experience?
 - How much Chinese have children learned?
 - Did exposure to Chinese have any effects on English?
 - Were there any effects of the learning experience outside language?

Early Chinese Learning Project What we tested



- Chinese language ability:
 - Lexical tones

BILINGUAL

- some written Chinese characters.
- Metalinguistic awareness:
 - Better awareness in the mother tongue
- Executive functions:
 - Effects of Mandarin input on children's attentional skills

Target sound	Sound in sentence
ma1	ma3
shi2	ir
hao3	hao3



Figure 1: example trial in character recognition task













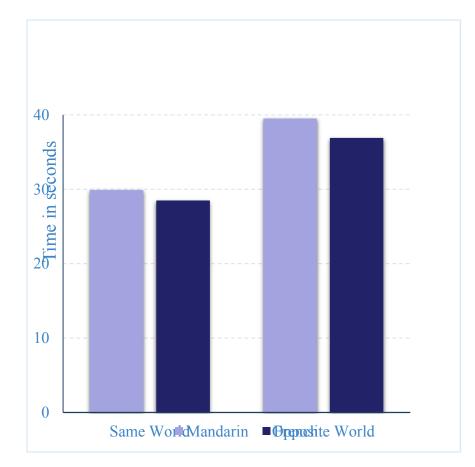
 Better performance is achieved by School A compared to the others:

(a) More hours of input, and

(b) More exposure to native speaker-led input.

Early Chinese Learning Project results





BILINGUA

Second study:

- Above-chance performance on Chinese recognition tests
- No difference in cognitive and English tests between children exposed to Chinese and children exposed to French.





Our recommendations:

- Introduce a streamlined syllabus for all schools which forms the core of language activities.
- Increase the amount of training and support available to teachers and volunteers
- Swap volunteers between participating schools or classes.





 Maintaining home languages in migrant children helps school achievement in general, and language learning in particular.



Speaking English at home instead of the home language? NO



- Many families force themselves to speak the L2 at home rather than their L1.
- Research has shown that children exposed predominantly to impoverished non-native L2 input are at a disadvantage in acquiring the L2.



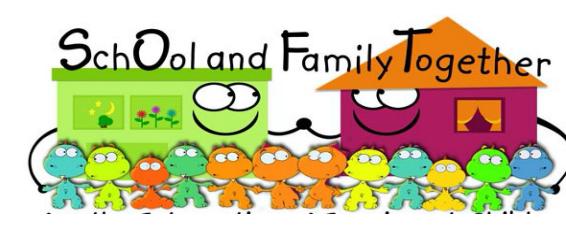






 Funded by EACEA – Lifelong Learning Education and Culture DG Lifelong Learning Programme

- Partners: Italy, Spain, Switzerland, Germany, UK (Scotland).
- Start date: 1 December 2012, end date: 30 November 2015.





The SOFT project





 Aim: fostering the linguistic and social integration of migrant children through shared language learning activities that involve children, teachers, and families.



The SOFT project

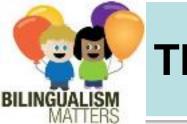


503 children:

Scottish: 227 Non-Scottish: 276

Countries of origin: Poland, Iraq, Syria, South Africa, Nigeria, Zambia, Slovakia, China, Spain, Portugal, Italy, Brazil

29 teachers



The SOFT project



Quantitative Data:

- Cognitive Test: DCCS
- Language tests in English and in the other language learned
- Questionnaire on home language use patterns

Qualitative Data:

• Classroom observations by teachers and tutors.





Question 1: Do children exposed to a language in a classroom setting develop better general cognitive abilities?

→ Yes: all children do, but immigrant children show a steeper development

Question 2: Do children who are already bilingual have an advantage at learning other languages?

 \rightarrow Yes, they do.



Regional minority languages: Sardinian



Garraffa, Beveridge & Sorace (2015)

 95 children attending primary 1 and 2 classes in central Sardinia:

40 Italian-Sardinian bilingual children

45 Italian monolingual children.



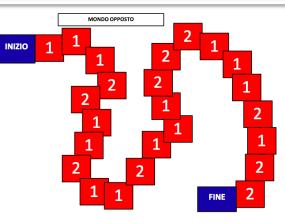


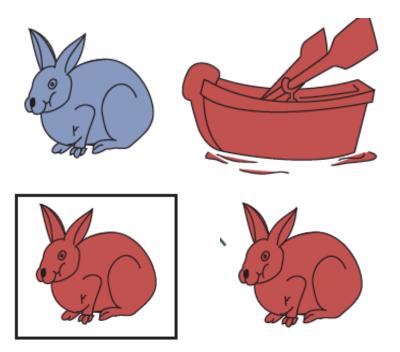
Regional minority languages: Sardinian



- Cognitive tests:
 - Opposite Worlds (verbal)
 - Dimensional Change Card Sorting task (non verbal)
- Linguistic tests:
 - Modified version of COMPRENDO, a comprehension test of Italian.











• Cognitive tasks: no differences for the younger children, but older children eventually overtake monolinguals.

 Italian language task: no differences between bilingual and monolingual children, except for two complex structures where bilinguals have an advantage on monolinguals.



Language learning in schools



MORE INFORMATION = BETTER DECISIONS



Bilingualism Matters





- University of Edinburgh Centre of Excellence
- Seminars and training for the community, international companies and institutions
- Public engagement and policy advice
- Regularly invited to comment by media (on language and multilingualism)
- Diversifed network in Europe (15 branches), growing in North America (2 branches)



Areas of engagement



- Early language learning in the preschool and primary school years
- Maintenance of home languages in immigrant children
- Maintenance of regional minority languages
- Language learning in young and older adults



SCOTLAND

Promoting further and higher education



Projects





National Science Foundation WHERE DISCOVERIES BEGIN



European Commission







REGIONE AUTÒNOMA DE SARDIGNA REGIONE AUTONOMA DELLA SARDEGNA







Education and Culture DG

Lifelong Learning Programme





Website and contacts



http://www.bilingualism-matters.ppls.ed.ac.uk

bilingualism-matters@ed.ac.uk

a.sorace@ed.ac.uk

Katarzyna.Przybycien@ed.ac.uk

THANK YOU!