

Lecture 6 - Reflections

Language of Images

→ A Virtual Image is the location where the light *appears* to be coming from, when in fact the light is bouncing off the mirror from a different location

→ A Real Image is when the light *actually* comes from the image (rather than just appearing to come from there), though you may need a screen to see it

Flat mirrors have many uses because they show us clear and easy to interpret images.

Image in a Vertical Mirror

- If a point on the object is a distance X in front of the mirror, the corresponding point on the image will appear to be a distance X in the back of the mirror ($X_{\text{object}} = X_{\text{image}}$)
- The image point is on the extended normal (perpendicular) line from the object to the flat mirror
- If the observer shifts a bit, the perceived image position remains the same

How do we make a mirror?

- A layer of glass (transmits light)
- A layer of shiny silver painted on the back (reflects light)
- A layer of dark paint (stops transmitted light from escaping out the back)

→ Half-Silvered Mirror

- If the silver coating on a mirror is thin enough, the mirror can be made to transmit 50% of the light and to reflect the other 50%
- With proper lighting, a half-silvered mirror can show objects on one side of the mirror but not the other

Summary

→ Plane mirrors make virtual images (no light rays actually come from this location)

- Image and object are located the same distance from, but on opposite sides of the mirror
- Independent of where observer is

Big Ideas

- Specular reflection comes from smooth objects
- We see an image as a result of reflection
- Law of reflection: angle of incidence = angle of reflection
- In a flat mirror, image distance = object distance
- We can locate images by tracing back where the reflected rays originated

Reflections On Language

Wolfgang Guggemos



Reflections On Language:

Reflections on Language Noam Chomsky, 1975 Noam Chomsky's work in linguistics has revolutionized our understanding of language. In these remarkable nontechnical *Reflections*, Chomsky considers the point and purpose of studying language and explores some of the more general intellectual implications that result from the study of linguistics. The questions he considers are the classical ones. From Plato to the present time, philosophers have been baffled and intrigued by how human beings with their limited and personal experience achieve such rich systems of knowledge, beliefs, and values systems that guide their actions and their interpretations of experience. In answer to this fundamental question, Chomsky argues that the growth of language is analogous to the development of a bodily organ and is in large measure predetermined by genetic factors. Throughout these *Reflections*, Chomsky offers incisive analyses of the controversies raging today among psychologists, philosophers, and linguists over the acquisition of cognitive structures, the way language interacts with other mental organs, and the way cognitive structures enter into and guide human activity. He explores the social and intellectual factors that have led to the dominance of certain ways of thinking and asks why the study of mind and behavior has so often followed a path remote from the general approach of the natural sciences. In examining some of the implications of recent work, he suggests that the conception of man as totally malleable not only is false but also serves naturally as a support for reactionary social doctrines. Publisher

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Reflections on Language Noam Chomsky, 1976
Reflections on Language Stuart Hirschberg, Terry Hirschberg, 1999 Designed primarily to help students in freshman composition appreciate the medium they are trying to master, this text brings together a collection of articles that examine

language from many points of view *If a Chimpanzee Could Talk and Other Reflections on Language Acquisition* Jerry H. Gill, 1997 Explores the social and cultural dimensions of language acquisition by considering the threshold between instinctive behavior and meaningful linguistic activity **Reflections on language evolution** Cedric Boeckx, 2021 This essay reflects on the fact that as we learn more about the biological underpinnings of our language faculty the dominant evolutionary narrative coming out of the linguistic tradition most explicitly oriented towards biology biolinguistics appears increasingly implausible This text offers ways of opening up linguistic inquiry and fostering interdisciplinarity taking advantage of new opportunities to provide quantitative testable hypotheses concerning the complex evolutionary path that led to the modern human language faculty The essay is structured around three main themes i renewed appreciation for the comparative method applied to cognitive questions leading to the identification of elementary but fundamental abstractions in non linguistic species relevant to language ii awareness of the conceptual gaps between disciplines and the need to carefully link genotype and phenotype without bypassing any intermediate levels of description certainly not the brain and iii adoption of a philosophical outlook that puts the complexity of biological entities front and center **The Twitter Machine** Neilson Voyne Smith, 1989 **Reflections on Language and Language Learning** Marcel Bax, C. Jan-Wouter Zwart, 2001 In *Reflections on Language and Language Learning* In honour of Arthur van Essen thirty one leading language scholars and educational linguists in the Netherlands and abroad with whom over the years Professor van Essen one of the grandees of applied linguistics has collaborated provide original essays and studies which discuss the most recent insights and trends in the fields of linguistics and foreign language teaching While interdisciplinary in scope the volume encompasses theoretical advances in educational linguistic thinking for example the perceptive articles written by Michael Byram Christopher N Candlin Natalia Gvishiani Peter Jordens Jan Koster Leo van Lier and Bondi Sciarone as well as a sample of the latest methodological developments in areas such as ELT LSP and content based language teaching cases in point are the useful contributions by Jeanine Deen Hilde Hacquebord Michaël Goethals Paul Meara Ignacio Rodríguez Sánchez Rosamond Mitchell Christopher Brumfit and Uta Thörmel **Reflections on the English Language** Robert Baker, 1970 **On Language** Noam Chomsky, Mitsou Ronat, 1998-11-01 Described by the New York Times as arguably the most important intellectual alive Noam Chomsky is known throughout the world for his highly influential writings on language and politics Featuring two of Chomsky's most popular and enduring books in one omnibus volume *On Language* contains some of the noted linguist and political critic's most informal and accessible work to date making it an ideal introduction to his thought In Part I *Language and Responsibility* 1979 Chomsky presents a fascinating self portrait of his political moral and linguistic thinking through a series of interviews with Mitsou Ronat the noted French linguist In Part II *Reflections on Language* 1975 Chomsky explores the more general implications of the study of language and offers incisive analyses of the controversies among psychologists philosophers and linguists over fundamental questions of language **Reflections on the English Language** 1970 Robert

Baker,1968 What's in a Name? George,2013-12-01 Using his probing intelligence to criticize the views of pundits from Locke to Chomsky from Ayer to religious apologists G A Wells has produced a lively essay on the persistent mistakes that have been made in understanding the relations among things words and ideas The chapter entitled Language and the Bible is a gem It should delight skeptics even as it challenges believers What s in a Name shows as if it still needed to be shown that Wells is one of the foremost religious critics of our time Michael Martin Professor of Philosophy Boston University

Instructor's Manual for Reflections on Language Stuart Hirschberg,1999 Bringing together a collection of 78 articles that examine language from many different perspectives this selection focuses on language as a social form demonstrating how it is an indispensable component of the world and how we interpret it *The Twitter Machine* Neil Smith,1991-01-08 This unique book provides an introductory overview of modern theoretical linguistics which manages to be both accessible and humorous without sacrificing either scholarship or insight In a series of magisterial vignettes Smith emphasizes the perennial necessity of appealing to linguistic theory if we are to gain any real understanding of the phenomena of language However profound or however trivial the questions we raise and try answer What exactly does one have to know to count as a speaker of a language What would it mean for a language to have no vowels Why do little children call lorries lollies Precisely what with this sentence is wrong we need to recourse to a theory even to make them coherent In particular the author argues that we can find solutions to our puzzles and explanations for these phenomena if we exploit on the one hand Chomsky's theory of Generative Grammar and on the other Sperber and Wilson's theory of Relevance *Reflections Upon Musical Art*

Considered in Its Wider Relations Joseph Goddard,1893 **Doing Reflective Practice in English Language Teaching** Thomas S. C. Farrell,2021-12-29 This practical and engaging book introduces readers to reflective practice in English language teaching Assuming no background knowledge Thomas S C Farrell clearly and accessibly walks through ways that teachers can integrate and implement reflective practice in the classroom and in other contexts to benefit their teaching and their own professional development Each chapter covers an important dimension of reflective practice and features many ready to use activities that are designed to empower teachers and allow them to overcome challenges they ll face throughout their careers Covering many types of reflection and the many purposes it serves this book addresses written reflection lesson planning classroom observation classroom management group communication and more This resource is ideal for preservice and early career language teachers and is an important supplement to courses in language education and applied linguistics programs

Handbook of Language Teacher Education Zia Tajeddin,Thomas S.C. Farrell,2025-07-02 This handbook synthesizes accumulated research evidence about the main areas of language teacher education It systematically applies research synthesis to the field providing coherent systematic insights into various aspects of language teacher education Each chapter compares research conducted between 2010 2020 within a specialized area of teacher education The chapters discuss the theoretical and research underpinnings of each area describing the purposes methods and findings of the

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Promoting Teacher Reflection in Second Language Education Thomas S. C. Farrell, 2014-11-27 Taking the concept and the practice of reflective teaching forward this book introduces a well structured flexible framework for use by teachers at all levels of development from pre service to novice to the most experienced The framework outlines five levels of reflective practice Philosophy Principles Theory of Practice Practice Beyond Practice and provides specific techniques for teachers to implement each level of reflection in their work Designed to allow readers to take either a deductive approach moving from theory into practice or an inductive approach where they start from a practice into theory position the framework can be used by teachers alone in pairs or in a group

The Complexity of Identity and Interaction in Language Education Nathanael Rudolph, Ali Fuad Selvi, Bedrettin Yazan, 2020-08-07 This book addresses two critical calls pertaining to language education Firstly for attention to be paid to the transdisciplinary nature and complexity of learner identity and interaction in the classroom and secondly for the need to attend to conceptualizations of and approaches to manifestations of inequity in the sociohistorical contexts in which they occur Collectively the chapters envision classrooms and educational institutions as sites both shaping and shaped by larger trans communal negotiations of being and belonging in which individuals affirm and or problematize essentialized and idealized nativeness and community membership The volume comprised of chapters contributed by a diverse array of researcher practitioners living working and or studying around the globe is intended to inform empower and inspire stakeholders in language education to explore potentially reimagine and ultimately critically and practically transform the communities in which they live work and or study

Saussure's Philosophy of Language as Phenomenology Beata

Stawarska, 2015-01-15 This book draws on recent developments in research on Ferdinand de Saussure's general linguistics to challenge the structuralist doctrine associated with the posthumous *Course in General Linguistics* 1916 and to develop a new philosophical interpretation of Saussure's conception of language based solely on authentic source materials. This project follows two new editorial paradigms: 1. a critical re-examination of the 1916 *Course* in light of the relevant sources and 2. a reclamation of the historically authentic materials from Saussure's *Nachlass*, some of them recently discovered. In Stawarska's book, this editorial paradigm shift serves to expose the difficulties surrounding the official Saussurean doctrine with its sets of oppositional pairings: the signifier and the signified, *la langue* and *la parole*, synchrony and diachrony. The book therefore puts pressure not only on the validity of the posthumous editorial redaction of Saussure's *course in general linguistics* in the *Course* but also on its structuralist and post-structuralist legacy within the works of Levi Strauss, Lacan, and Derrida. Its constructive contribution consists in reclaiming the writings from Saussure's *Nachlass* in the service of a linguistic phenomenology which intersects individual expression in the present with historically sedimented social conventions. Stawarska develops such a conception of language by engaging Saussure's own reflections with relevant writings by Hegel, Husserl, Roman Jakobson, and Merleau-Ponty. Finally, she enriches her philosophical critique with a detailed historical account of the material and institutional processes that led to the ghostwriting and legitimizing of the *Course* as official Saussurean doctrine.

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