5 parameters of sign language

5 Parameters of Sign Language: Unlocking the Building Blocks of Visual Communication

5 parameters of sign language are fundamental elements that form the foundation of how meaning is conveyed through this rich and expressive mode of communication. Whether you are new to sign language or already familiar with its basics, understanding these parameters can deepen your appreciation of its complexity and beauty. They act much like the phonemes in spoken languages, providing the essential features that differentiate one sign from another. In this article, we'll explore these five parameters in detail, explaining their roles and how they work together to create effective and clear communication.

What Are the 5 Parameters of Sign Language?

Sign languages across the world, including American Sign Language (ASL), British Sign Language (BSL), and others, rely on five core parameters to form signs. These parameters are handshape, location, movement, palm orientation, and non-manual signals. Each one contributes a unique layer of information that helps to distinguish signs and convey meaning accurately.

1. Handshape: The Fingerprint of a Sign

The handshape refers to the specific configuration of the fingers and hand when producing a sign. It is one of the most distinctive aspects of sign language and varies widely from one sign to another. For example, a sign that uses a flat hand will look very different from one that uses a fist or a pinched finger shape.

Handshape is critical because even a subtle change can alter the meaning entirely. Think of it like the difference between letters in written language. Mastering a variety of handshapes is essential for anyone learning sign language, as this parameter often acts as the "root" of the sign.

Tips for Practicing Handshapes

- Start by learning the basic handshapes commonly used in your target sign language.
- Practice switching between handshapes smoothly to build muscle memory.
- Use mirrors or video recordings to check the accuracy of your handshape

formation.

2. Location: Where the Sign Happens

Location refers to the place on or near the signer’s body where the sign is made. This could be near the head, torso, or in the signing space in front of the body. The position plays an important role in differentiating signs that may have similar handshapes or movements.

For instance, a sign made near the forehead might mean something completely different from the same handshape made near the chest. Location helps provide context and clarity, much like intonation does in spoken language.

Understanding Location Variations

- Pay attention to common locations used in your sign language, such as the face, shoulders, or waist.
- Notice how changing location can change the meaning of a sign even when the handshape remains constant.
- Practice locating signs accurately to avoid confusion or miscommunication.

3. Movement: Bringing Signs to Life

Movement refers to the way the hands travel or change during the production of a sign. This can include motions such as sweeping, tapping, circling, or twisting. Movement provides dynamic information that can modify meaning, indicate grammar, or add emphasis.

For example, a repeated tapping movement might indicate plurality or intensity, whereas a smooth, continuous motion might convey a different idea altogether. Movement is essential in making signs expressive and nuanced.

How to Master Movement in Sign Language

- Observe native signers carefully to understand the natural rhythm and flow of movements.

- Practice movements slowly at first, then gradually increase speed while maintaining precision.
- Record yourself signing to self-assess the fluidity and accuracy of movements.

4. Palm Orientation: The Direction Your Palm Faces

Palm orientation describes the direction in which the palm is facing during a sign. It could be facing up, down, towards the signer, away from the signer, or sideways. This seemingly subtle factor can drastically change the meaning of a sign.

For example, the same handshape and location with a palm facing inward might mean something entirely different than if the palm is facing outward. Palm orientation is another critical parameter that ensures that signs are distinct and unambiguous.

Practical Advice for Palm Orientation

- Become aware of the various palm positions and practice holding your palm steady in the correct orientation.
- Combine palm orientation practice with handshape and location to build complete signs.
- Use video examples from trusted sources to see how palm orientation affects meaning.

5. Non-Manual Signals: The Facial Expressions and Body Language

Non-manual signals (NMS) are perhaps the most expressive parameter in sign language. These include facial expressions, head movements, eye gaze, and body posture. While the hands form the core of signs, non-manual signals add emotion, tone, grammatical information, and emphasis.

For example, raising eyebrows might turn a statement into a question, while a furrowed brow might indicate negation or confusion. NMS are essential for fully understanding the intent behind a sign and for conveying subtle nuances that hand movements alone cannot.

Incorporating Non-Manual Signals

- Practice mirroring facial expressions along with signing to improve naturalness.
- Learn the grammar rules associated with non-manual markers in your sign language.
- Watch fluent signers to notice how body language complements hand signs.

Why Understanding the 5 Parameters Matters

Grasping these five parameters is crucial if you want to become proficient in sign language or even just improve your comprehension. Each parameter works in concert with the others to form distinct signs. Neglecting any one of them could lead to misunderstandings or incomplete communication.

Moreover, for sign language interpreters, educators, and students, a clear understanding of these parameters allows for better teaching methods, more effective learning, and clearer interpretation. It also highlights the linguistic richness of sign languages, reinforcing that they are full-fledged natural languages with their own unique grammar and structure.

Bringing It All Together in Practice

When learning or using sign language, focus on integrating all five parameters simultaneously. For example, when learning a new sign, pay attention to:

- What is the handshape?
- Where is the sign located on the body or in space?
- What movement is involved?
- Which way is the palm oriented?
- What facial expression or body movement accompanies the sign?

This holistic approach will help you produce and understand signs more accurately and expressively.

Exploring Beyond the Basics

Once comfortable with these parameters, you might explore how regional variations or dialects affect sign parameters. For instance, some signs in ASL might differ in handshape or location depending on the region or community. Additionally, understanding how these parameters interact can open doors to learning other sign languages, as many share similar foundational concepts despite surface differences.

Sign language is a vibrant, living language that transcends cultures and communities. Mastering the five parameters not only improves communication but also provides insight into the diverse ways humans express thoughts and emotions visually.

By appreciating the nuances hidden in handshapes, movements, locations, palm orientations, and non-manual signals, we can connect more deeply with the deaf and hard-of-hearing communities and celebrate the beauty of sign language as a unique linguistic treasure.

Frequently Asked Questions

What are the 5 parameters of sign language?

The 5 parameters of sign language are handshape, location, movement, palm orientation, and non-manual signals (facial expressions and body posture).

Why are the 5 parameters important in sign language?

They are essential because they distinguish signs from one another, enabling clear and accurate communication in sign language.

Can changing one of the 5 parameters alter the meaning of a sign?

Yes, altering any of the five parameters can completely change the meaning of a sign or make it unintelligible.

What does the handshape parameter refer to in sign language?

Handshape refers to the specific configuration of the fingers and palm used to form a sign.

How does location influence the meaning of a sign?

Location refers to where the sign is made in relation to the signer's body, and changing this can alter the meaning of the sign.

What role does movement play among the 5 parameters of sign language?

Movement involves the direction, speed, and type of motion of the hands, which helps convey different meanings or grammatical aspects in signs.

What is palm orientation in the context of sign language parameters?

Palm orientation describes the direction the palm and fingers face during a sign, which is critical for differentiating signs.

How do non-manual signals contribute to sign language communication?

Non-manual signals include facial expressions and body movements that provide grammatical information and emotional context, complementing the manual signs.

Additional Resources

5 Parameters of Sign Language: An In-Depth Exploration of Its Core Components

5 parameters of sign language serve as the foundational elements that define how meaning is conveyed through visual-gestural communication systems. Unlike spoken languages that rely on vocal sounds, sign languages employ a complex interplay of hand shapes, movements, spatial orientation, and facial expressions. Understanding these parameters is crucial not only for linguists and educators but also for interpreters, technology developers, and anyone seeking deeper insights into the structure and function of sign languages around the world.

Sign languages are fully developed, natural languages with their own grammar and syntax, distinct from the spoken languages used in the same regions. The core framework of sign language grammar is built upon five primary parameters, which collectively shape the meaning of each sign. These parameters are handshape, location, movement, palm orientation, and non-manual signals. Each parameter contributes uniquely to the formation and differentiation of signs, making their study essential for accurate communication and interpretation.

The Five Parameters of Sign Language Explained

1. Handshape

Handshape refers to the specific configuration or form of the fingers and palm during the production of a sign. It is arguably one of the most visually distinctive aspects of sign language. Each handshape can represent different concepts or words, and subtle variations can alter meaning entirely. For example, American Sign Language (ASL) incorporates dozens of handshapes, ranging from open palms to tightly clenched fists, each serving a linguistic purpose.

The importance of handshape is evident in sign language dictionaries and teaching materials, where handshape charts are fundamental tools for learners. Additionally, technological advances in sign recognition software often emphasize accurate handshape detection to improve communication aids for the deaf and hard-of-hearing community.

2. Location

Location pertains to where the sign is articulated relative to the signer’s body. This parameter can involve different regions such as near the head, chest, or hands. The spatial aspect of sign language is not arbitrary; it plays a critical role in differentiating signs that may share the same handshape or movement but occur in different locations.

For example, the sign for “mother” in ASL involves placing the thumb of an open hand near the chin, while “father” uses the same handshape but near the forehead. Location helps establish semantic context and can also indicate grammatical relationships, such as subject-object distinctions.

3. Movement

Movement refers to the action performed by the hands during the articulation of a sign. This includes the direction, speed, and type of motion—whether the hand moves up, down, circularly, or remains stationary. Movement is vital in sign language because it can transform one sign into another, creating contrasts in meaning.

For instance, in British Sign Language (BSL), the movement of the hand from side to side versus an up-and-down motion can signal completely different words. Movement also contributes to the expressiveness and grammatical nuances of sign language, such as indicating tense or aspect.

4. Palm Orientation

Palm orientation describes the direction in which the palm faces during signing. This parameter may seem subtle but is essential for distinguishing signs. The palm can face upward, downward, inward towards the signer, outward away, or sideways.

A change in palm orientation can alter the meaning of a sign even when handshape, location, and movement remain constant. For example, in ASL, the sign for “help” involves an upward-facing palm, while reversing the palm orientation may yield a different sign or no meaningful sign at all. Consequently, mastering palm orientation is crucial for clarity and precision in sign language communication.

5. Non-Manual Signals

Non-manual signals (NMS) encompass facial expressions, head movements, eye gaze, and body posture that accompany manual signs. These signals are not merely gestures but integral grammatical components that provide emotional context, modify meaning, and indicate sentence types like questions or negations.

Facial expressions can differentiate between statements and questions, show emphasis, or convey intensity. For example, raised eyebrows often signal a yes/no question in ASL, while furrowed brows might indicate a wh-question. Non-manual markers are indispensable for fluent communication and are recognized as a core parameter alongside the manual components.

Why the Five Parameters Matter in Sign Language Learning and Technology

The intricate combination of these five parameters enables sign languages to be rich, expressive, and highly nuanced. For learners, understanding each parameter helps in decoding signs accurately and producing them correctly. Without attention to all five, miscommunication can easily occur.

In the realm of technology, the five parameters present both challenges and opportunities. Sign language recognition systems, used in applications like automated translation and virtual sign language tutors, must account for subtle differences in handshape, movement, and facial expressions. Current research in computer vision and machine learning increasingly focuses on capturing these parameters effectively to enhance accessibility tools.

Moreover, the parameters are crucial in sign language linguistics research, where analyzing variations among different sign languages or dialects often

involves examining how each parameter functions within a language's phonological system.

Comparative Insights: Variability Across Different Sign Languages

While the five parameters are universal across sign languages, their specific manifestations can vary widely between languages. For example, the range of handshapes in Japanese Sign Language (JSL) differs from that in ASL, reflecting cultural and linguistic diversity. Similarly, non-manual signals in Nicaraguan Sign Language might emphasize different facial expressions compared to BSL, influenced by unique grammatical structures.

This variability underscores the importance of not treating sign languages as monolithic but recognizing the dynamic interplay of parameters within different linguistic and cultural contexts. It also highlights why sign language instruction and resources must be tailored to specific languages rather than relying on a one-size-fits-all approach.

Conclusion

The five parameters of sign language—handshape, location, movement, palm orientation, and non-manual signals—constitute the essential framework that shapes meaning and communication in visual languages. Each parameter plays a distinct yet interconnected role, enabling sign languages to function as fully expressive and complex systems. As sign language gains increasing recognition worldwide, especially in education and technology, a thorough understanding of these parameters remains fundamental to advancing both theoretical knowledge and practical applications in the field.

5 Parameters Of Sign Language

5 parameters of sign language: American Sign Language Charlotte Lee Baker-Shenk, Dennis Cokely, 1991 The videocassettes illustrate dialogues for the text it accompanies, and also provides ASL stories, poems and dramatic prose for classroom use. Each dialogue is presented three times to allow the student to converse with each signer. Also demonstrates the grammar and structure of sign language. The teacher's text on grammar and culture focuses on the use of three basic types of sentences, four verb inflections, locative relationships and pronouns, etc. by using sign language.

The teacher's text on curriculum and methods gives guidelines on teaching American Sign Language and Structured activities for classroom use.

5 parameters of sign language: Linguistics of American Sign Language Clayton Valli, Ceil Lucas, 2000 New 4th Edition completely revised and updated with new DVD now available; ISBN 1-56368-283-4.

5 parameters of sign language: *Directions in Sign Language Acquisition* Gary Morgan, Bencie Woll, 2002-01-01 This is the second volume in the series 'Trends in language acquisition research'. The unusual combination in one volume of reports on various different sign languages in acquisition makes this book quite unique.

5 parameters of sign language: The Oxford Handbook of Universal Grammar Ian G. Roberts, 2017 This handbook provides a critical guide to the most central proposition in modern linguistics: the notion, generally known as Universal Grammar, that a universal set of structural principles underlies the grammatical diversity of the world's languages. Part I considers the implications of Universal Grammar for philosophy of mind and the philosophy of language, and examines the history of the theory. Part II focuses on linguistic theory, looking at topics such as explanatory adequacy and how phonology and semantics fit into Universal Grammar. Parts III and IV look respectively at the insights derived from UG-inspired research on language acquisition, and at comparative syntax and language typology, while part V considers the evidence for Universal Grammar in phenomena such as creoles, language pathology, and sign language. The book will be a vital reference for linguists, philosophers, and cognitive scientists.

5 parameters of sign language: *Ubiquitous Computing and Ambient Intelligence* Carmelo R. García, Pino Caballero-Gil, Mike Burmester, Alexis Quesada-Arencibia, 2016-11-18 This LNCS double volume LNCS 10069-10070 constitutes the refereed proceedings of the 10th International Conference on Ubiquitous Computing and Ambient Intelligence, UCAmI 2016, which includes the International Work Conference on Ambient Assisted Living (IWAAL), and the International Conference on Am-bient Intelligence for Health (AmIHEALTH), held in Las Palmas de Gran Canaria, Spain, in November/December 2016. The 69 full papers presented together with 40 short papers and 5 doctoral consortium papers were carefully reviewed and selected from 145 submissions. UCAmI 2016 is focused on research topics related to ambient assisted living, internet of things, smart cities, ambient intelligence for health, human-computer interaction, ad-hoc and sensor networks, and security.

5 parameters of sign language: Language Endangerment Ndimele, Ozo-mekuri, 2016-02-22 This commemorative volume is the 12th edition in the Nigerian Linguists Festschrift Series devoted to Professor (Mrs.) Appolonia Uzoaku Okwudishu. The majority of the papers were presented at the 27th Annual Conference of the Linguistic Association of Nigerian (CLAN) which was held at the Benue State University, Makurdi, Nigeria, and the 26th CLAN which was held at the University of Ibadan, Nigeria. The title derives from the theme of the 27th CLAN: Language Endangerment: Globalisation and the Fate of Minority Languages in Nigeria. A large number of the papers address the major theme of the conference, while the balance address various aspects of Nigerian linguistics, languages, communication, and literature. Fifty-one papers are included, ranging from sociolinguistics through applied linguistics to formal areas of linguistics which include phonology, morphology and syntax of Nigerian languages. Papers on language endangerment and language revitalisation strategies for safeguarding the vanishing indigenous tongues of Nigeria are the major focus, and the book serves as important reference material in various aspects of language and linguistic studies in Nigeria.

5 parameters of sign language: Gesture-Based Communication in Human-Computer Interaction Annelies Braffort, Rachid Gherbi, Sylvie Gibet, James Richardson, Daniel Teil, 2003-06-29 This book constitutes the thoroughly refereed post-proceedings of the International Gesture Workshop, GW'99, held in Gif-sur-Yvette, France, in March 1999. The 16 revised long papers and seven revised short papers were carefully reviewed for inclusion in the book. Also included are four invited papers and the transcription of a round table discussion. The papers are

organized in sections on human perception and production of gesture, localization and segmentation, recognition, sign language, gesture synthesis and animation, and multimodality.

5 parameters of sign language: The Linguistics of Sign Languages Anne Baker, Beppie van den Bogaerde, Roland Pfau, Trude Schermer, 2016-06-23 How different are sign languages across the world? Are individual signs and signed sentences constructed in the same way across these languages? What are the rules for having a conversation in a sign language? How do children and adults learn a sign language? How are sign languages processed in the brain? These questions and many more are addressed in this introductory book on sign linguistics using examples from more than thirty different sign languages. Comparisons are also made with spoken languages. This book can be used as a self-study book or as a text book for students of sign linguistics. Each chapter concludes with a summary, some test-yourself questions and assignments, as well as a list of recommended texts for further reading. The book is accompanied by a website containing assignments, video clips and links to web resources.

5 parameters of sign language: Sign Languages of the World Julie Bakken Jepsen, Goedele De Clerck, Sam Lutalo-Kiingi, William B. McGregor, 2015-10-16 Although a number of edited collections deal with either the languages of the world or the languages of particular regions or genetic families, only a few cover sign languages or even include a substantial amount of information on them. This handbook provides information on some 38 sign languages, including basic facts about each of the languages, structural aspects, history and culture of the Deaf communities, and history of research. This information will be of interest not just to general audiences, including those who are deaf, but also to linguists and students of linguistics. By providing information on sign languages in a manner accessible to a less specialist audience, this volume fills an important gap in the literature.

5 parameters of sign language: Gesture and Sign Languages in Human-Computer Interaction Ipke Wachsmuth, Timo Sowa, 2002-04-24 This book constitutes the thoroughly refereed post-proceedings of the International Workshop on Gesture and Sign Languages in Human-Computer Interaction, GW 2001, held in London, UK, in April 2001. The 25 revised full papers and 8 short papers were carefully reviewed and selected for inclusion in the post-proceedings. The papers are organized in topical sections on gesture recognition, recognition of sign languages, nature and notations of sign languages, gesture and sign language synthesis, gestural action and interaction, and applications based on gesture control.

5 parameters of sign language: *Gesture-Based Communication in Human-Computer Interaction* Antonio Camurri, Gualtiero Volpe, 2011-04-02 Research on the multifaceted aspects of modeling, analysis, and synthesis of - man gesture is receiving growing interest from both the academic and industrial communities. On one hand, recent scienti?c developments on cognition, on - fect/emotion, on multimodal interfaces, and on multimedia have opened new perspectives on the integration of more sophisticated models of gesture in c- putersystems.Ontheotherhand,theconsolidationofnewtechnologiesenabling “disappearing” computers and (multimodal) interfaces to be integrated into the natural environments of users are making it realistic to consider tackling the complex meaning and subtleties of human gesture in multimedia systems, - abling a deeper, user-centered, enhanced physical participation and experience in the human-machine interaction process. The research programs supported by the European Commission and s- eral national institutions and governments individuated in recent years strategic ?elds strictly concerned with gesture research. For example, the DG Infor- tion Society of the European Commission (www.cordis.lu/ist) supports several initiatives, such as the “Disappearing Computer” and “Presence” EU-IST FET (Future and Emerging Technologies), the IST program “Interfaces & Enhanced Audio-Visual Services” (see for example the project MEGA, Multisensory - pressive Gesture Applications, www.megaproject.org), and the IST strategic - jective “Multimodal Interfaces.” Several EC projects and other funded research are represented in the chapters of this book. Awiderangeofapplicationscanbene?tfromadvancesinresearchongesture, from consolidated areas such as surveillance to new or emerging ?elds such as therapy and rehabilitation, home

consumer goods, entertainment, and aud- visual, cultural and artistic applications, just to mention only a few of them.

5 parameters of sign language: *Sign Language* Roland Pfau, Markus Steinbach, Bencie Woll, 2012-08-31 Sign language linguists show here that all questions relevant to the linguistic investigation of spoken languages can be asked about sign languages. Conversely, questions that sign language linguists consider - even if spoken language researchers have not asked them yet - should also be asked of spoken languages. The HSK handbook Sign Language aims to provide a concise and comprehensive overview of the state of the art in sign language linguistics. It includes 44 chapters, written by leading researchers in the field, that address issues in language typology, sign language grammar, psycholinguistics, neurolinguistics, sociolinguistics, and language documentation and transcription. Crucially, all topics are presented in a way that makes them accessible to linguists who are not familiar with sign language linguistics.

5 parameters of sign language: Australian Sign Language (Auslan) Trevor Johnston, Adam Schembri, 2007-01-18 This is first comprehensive introduction to the linguistics of Auslan, the sign language of Australia. Assuming no prior background in language study, it explores each key aspect of the structure of Auslan, providing an accessible overview of its grammar (how sentences are structured), phonology (the building blocks of signs), morphology (the structure of signs), lexicon (vocabulary), semantics (how meaning is created), and discourse (how Auslan is used in context). The authors also discuss a range of myths and misunderstandings about sign languages, provide an insight into the history and development of Auslan, and show how Auslan is related to other sign languages, such as those used in Britain, the USA and New Zealand. Complete with clear illustrations of the signs in use and useful further reading lists, this is an ideal resource for anyone interested in Auslan, as well as those seeking a clear, general introduction to sign language linguistics.

5 parameters of sign language: A Phonological Grammar of Kenyan Sign Language Hope E. Morgan, 2022-07-05 This grammar of Kenyan Sign Language (KSL) phonology adds to a sparse literature on the units of categorical form in the world's sign languages. At the same time, it brings descriptive and theoretical research on sign language phonology into better alignment by systematically evaluating current models of sign language phonology for each of the main parameters – handshape, location, and movement – against the KSL data. This grammar also makes a methodological contribution by using a unique dataset of KSL minimal pairs in the analysis, demonstrating that minimal pairs are not as infrequent in sign languages as previously thought. The main content of the book is found in five chapters on handshape, location, core articulatory movement, manner of movement, and other distinctive features (e.g., orientation, mouth actions). The book also contains two large appendices that document the phonological evidence for each of the 44 handshapes and 37 locations. This book will be a key reference for descriptive and typological studies of sign phonology, as well as a helpful resource for linguists interested in understanding the similarities and differences between current models of sign phonology and identifying promising avenues for future research.

5 parameters of sign language: Sign Language Research Sixty Years Later: Current and Future Perspectives Valentina Cuccio, Erin Wilkinson, Brigitte Garcia, Adam Schembri, Erin Moriarty, Sabina Fontana, 2022-11-14

5 parameters of sign language: *Handbook of Neurolinguistics* Harry A. Whitaker, Brigitte Stemmer, 1998-02-04 The Handbook of Neurolinguistics is a state-of-the-art reference and resource book; it describes current research and theory in the many subfields of neurolinguistics and its clinical application. Thorough and clearly written, the handbook provides an excellent overview of the field of neurolinguistics and its development. The book is organized into five parts covering the history of neurolinguistics, methods in clinical and experimental neurolinguistics, experimental neurolinguistics, clinical neurolinguistics, and resources in neurolinguistics. The first four parts contain a wide range of topics which discuss all important aspects of the many subfields of neurolinguistics. Also included are the relatively new and fast developing areas of research in

discourse, pragmatics, and recent neuroimaging techniques. The resources section provides currently available resources, both traditional and modern. The handbook is useful to the newcomer to the field, as well as the expert searching for the latest developments in neurolinguistics. - Clearly written and well organized - Provides extensive resources - Discusses both history and current research - Covers the many subfields of neurolinguistics as well the developing areas of research

5 parameters of sign language: *The Routledge Handbook of Sign Language Translation and Interpreting* Christopher Stone, Robert Adam, Ronice Müller de Quadros, Christian Rathmann, 2022-07-18 This Handbook provides the first comprehensive overview of sign language translation and interpretation from around the globe and looks ahead to future directions of research. Divided into eight parts, the book covers foundational skills, the working context of both the sign language translator and interpreter, their education, the sociological context, work settings, diverse service users, and a regional review of developments. The chapters are authored by a range of contributors, both deaf and hearing, from the Global North and South, diverse in ethnicity, language background, and academic discipline. Topics include the history of the profession, the provision of translation and interpreting in different domains and to different populations, the politics of provision, and the state of play of sign language translation and interpreting professions across the globe. Edited and authored by established and new voices in the field, this is the essential guide for advanced students and researchers of translation and interpretation studies and sign language.

5 parameters of sign language: *Sign Language Research* Ceil Lucas, 1990 The second international conference on sign language research, hosted by Gallaudet University, yielded critical findings in vital linguistic disciplines -- phonology, morphology, syntax, sociolinguistics, language acquisition and psycholinguistics. Sign Language Research brings together in a fully synthesized volume the work of 24 of the researchers invited to this important gathering. Scholars from Belgium to India, from Finland to Uganda, and from Japan to the United States, exchanged the latest developments in sign language research worldwide. Now, the results of their findings are in this comprehensive volume complete with illustrations and photographs.

5 parameters of sign language: Simplified Signs: A Manual Sign-Communication System for Special Populations, Volume 1. John D. Bonvillian, Nicole Kissane Lee, Tracy T. Dooley, Filip T. Loncke, 2020-07-30 Simplified Signs presents a system of manual sign communication intended for special populations who have had limited success mastering spoken or full sign languages. It is the culmination of over twenty years of research and development by the authors. The Simplified Sign System has been developed and tested for ease of sign comprehension, memorization, and formation by limiting the complexity of the motor skills required to form each sign, and by ensuring that each sign visually resembles the meaning it conveys. Volume 1 outlines the research underpinning and informing the project, and places the Simplified Sign System in a wider context of sign usage, historically and by different populations. Volume 2 presents the lexicon of signs, totalling approximately 1000 signs, each with a clear illustration and a written description of how the sign is formed, as well as a memory aid that connects the sign visually to the meaning that it conveys. While the Simplified Sign System originally was developed to meet the needs of persons with intellectual disabilities, cerebral palsy, autism, or aphasia, it may also assist the communication needs of a wider audience – such as healthcare professionals, aid workers, military personnel , travellers or parents, and children who have not yet mastered spoken language. The system also has been shown to enhance learning for individuals studying a foreign language. Lucid and comprehensive, this work constitutes a valuable resource that will enhance the communicative interactions of many different people, and will be of great interest to researchers and educators alike.

5 parameters of sign language: *Approaches to Language: Data, Theory, and Explanation* Ángel J. Gallego, Aritz Irurtzun, 2020-12-24 The study of language has changed substantially in the last decades. In particular, the development of new technologies has allowed the emergence of new experimental techniques which complement more traditional approaches to data in linguistics (like informal reports of native speakers' judgments, surveys, corpus studies, or fieldwork). This move is an enriching feature of contemporary linguistics, allowing for a better understanding of a

phenomenon as complex as natural language, where all sorts of factors (internal and external to the individual) interact (Chomsky 2005). This has generated some sort of divergence not only in research approaches, but also in the phenomena studied, with an increasing specialization between subfields and accounts. At the same time, it has also led to subfield isolation and methodological a priori, with some researchers even claiming that theoretical linguistics has little to offer to cognitive science (see for instance Edelman & Christiansen 2003). We believe that this view of linguistics (and cognitive science as a whole) is misguided, and that the complementarity of different approaches to such a multidimensional phenomenon as language should be highlighted for convergence and further development of its scientific study (see also Jackendoff 1988, 2007; Phillips & Lasnik 2003; den Dikken, Bernstein, Tortora & Zanuttini 2007; Sprouse, Schütze & Almeida 2013; Phillips 2013).

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