

PARALANGUAGE KINESICS UNIVERSITY OF WASHINGTON Study Guide

paralanguage kinesics university of washington is an intriguing area of study within the broader fields of communication, psychology, and linguistics. At the University of Washington, researchers and students explore how non-verbal cues?such as vocal qualities and body language?play a vital role in human interaction. These elements, collectively known as paralanguage and kinesics, are essential for understanding how individuals convey meaning beyond words. As scholars delve into these topics, they uncover the subtle nuances that influence interpersonal communication, social dynamics, and even cross-cultural interactions. This article provides a comprehensive overview of paralanguage and kinesics, highlighting their significance, key concepts, and the work being done at the University of Washington to advance knowledge in this fascinating domain.

Understanding Paralanguage and Kinesics

What is Paralanguage?

Paralanguage refers to the non-verbal elements of communication that accompany speech, contributing to the meaning and emotional tone of spoken words. Unlike language itself, which involves the structured system of words and grammar, paralanguage encompasses vocal cues that shape how messages are perceived. These cues include:

- Pitch
- Volume
- Speech rate
- Pauses and silence
- Vocal fillers (like "um," "ah")
- Voice quality (e.g., breathiness, nasality)

Paralanguage influences whether a message sounds sincere, angry, friendly, or indifferent. For instance, a warm tone can foster trust, while a harsh tone might provoke defensiveness.

What is Kinesics?

Kinesics is the study of body movements, gestures, facial expressions, and posture as forms of non-verbal communication. Developed initially by anthropologist Ray Birdwhistell, kinesics examines how physical behaviors convey emotions, attitudes, and social cues. Key components of kinesics

include:

- Facial expressions
- Gestures (e.g., pointing, waving)
- Posture
- Eye contact
- Proxemics (personal space)
- Body orientation

Together, these cues can reinforce, contradict, or complement spoken language, providing a richer context for understanding interactions.

The Significance of Paralanguage and Kinesics in Communication

Enhancing Message Clarity

Non-verbal cues help clarify ambiguous messages. For example, a sentence like "I'm fine" can be interpreted differently depending on tone and body language. A genuine smile and open posture reinforce sincerity, while a flat voice and crossed arms suggest disinterest or distress.

Expressing Emotions

Much of human emotional expression is non-verbal. Facial expressions, gestures, and vocal qualities often reveal feelings more honestly than words. Recognizing these cues allows communicators to respond empathetically and appropriately.

Building Relationships

Effective communication relies heavily on non-verbal signals. Maintaining eye contact, nodding, and mirroring gestures can foster rapport and trust. Conversely, hostile or defensive body language can hinder relationship development.

Cultural Variations

Kinesics and paralanguage are influenced by cultural norms. For example, the amount of eye contact deemed appropriate varies across cultures, as do gestures and personal space preferences. Understanding these differences is crucial for cross-cultural communication competence.

The University of Washington's Contributions to Paralanguage and Kinesics Studies

Research Initiatives and Projects

The University of Washington hosts interdisciplinary research centers that focus on non-verbal communication. Notable initiatives include:

- **Center for Communication Studies:** Conducts experiments on how vocal cues influence perception and decision-making.
- **Human Interaction Laboratory:** Uses technology like motion capture and audio analysis to study kinesics and paralinguistics in real-world settings.
- **Cross-Cultural Communication Projects:** Explore how non-verbal cues vary globally and impact international relations.

Faculty and Academic Programs

Faculty members specializing in non-verbal communication contribute to the university's academic offerings through:

- Undergraduate courses on non-verbal communication and intercultural communication
- Graduate seminars on kinesics and paralinguistics research methods
- Collaborative projects with psychology, anthropology, and linguistics departments

These programs prepare students to analyze and apply knowledge of non-verbal cues across various fields, including counseling, law enforcement, and international diplomacy.

Innovative Research and Publications

Researchers at the University of Washington have published influential papers on topics such as:

- The role of vocal tone in leadership and persuasion
- Facial expression recognition and emotion detection algorithms
- The impact of cultural differences in proxemics and gestures

Their work advances understanding of how paralinguistics and kinesics operate in complex social environments.

Practical Applications of Paralinguistics and Kinesics

In Business and Negotiation

Effective communication in negotiations hinges on reading non-verbal cues. For instance, a speaker's hesitation or shifting posture may indicate doubt, prompting negotiators to adjust their approach.

In Healthcare and Therapy

Clinicians analyze facial expressions and vocal cues to assess patient emotions and mental health. Recognizing non-verbal signals can improve diagnosis and treatment strategies.

In Security and Law Enforcement

Interpreting body language and vocal tone helps officers identify deception or distress during interrogations or security screenings.

In Technology and AI

Advances in machine learning enable the development of systems that recognize emotions through voice and facial analysis, enhancing applications like virtual assistants and customer service bots.

Challenges and Future Directions

Cultural Sensitivity and Context

Interpreting kinesics and paralinguistics requires awareness of cultural contexts. A gesture or tone that signifies friendliness in one culture might be offensive elsewhere.

Technological Limitations

While AI tools are improving, accurately decoding complex non-verbal cues remains challenging due to variability and subtlety.

Interdisciplinary Collaboration

Future research benefits from collaboration across disciplines?integrating insights from psychology, neuroscience, anthropology, and computer science.

Emerging Trends

Emerging areas include:

- Real-time emotion detection in virtual communication
- Augmented reality applications for enhancing non-verbal cues
- Cross-cultural studies leveraging big data analytics

Conclusion

paralanguage kinesics university of washington exemplifies the integration of theoretical research and practical application in understanding human communication beyond words. Recognizing the importance of vocal qualities and body language enriches our ability to connect, empathize, and interpret the complex tapestry of human interaction. As technology advances and cultural awareness grows, the study of paralanguage and kinesics will continue to evolve, offering deeper insights into the nuances of communication in our increasingly interconnected world. Whether in academic settings, professional environments, or everyday life, mastering these non-verbal cues can significantly enhance interpersonal effectiveness and cultural competence.

Paralanguage Kinesics University of Washington: An In-Depth Exploration of Nonverbal Communication

Understanding human communication extends far beyond words. The subtle nuances of how we speak, move, and express ourselves play a critical role in conveying meaning, emotion, and intent. Among these elements, paralanguage kinesics university of washington stands out as a vital area of study, combining the nuances of paralanguage?vocal cues beyond speech?and kinesics?the study of body language?to paint a comprehensive picture of nonverbal communication. This article provides a detailed guide to these interconnected fields, exploring their definitions, significance, research at the University of Washington, and practical applications.

What is Paralanguage Kinesics?

Defining Paralanguage

Paralanguage refers to the non-verbal elements that accompany speech, shaping how messages are interpreted. These include:

- Tone of voice
- Pitch
- Volume
- Speech rate
- Pauses and hesitations
- Vocalizations like sighs, laughter, or groans

While words convey content, paralinguistics adds emotional depth and contextual nuance, often revealing true feelings or attitudes that words alone might conceal.

Defining Kinesics

Kinesics involves the study of body language—the gestures, facial expressions, posture, eye movements, and other physical behaviors that communicate meaning. It encompasses:

- Facial expressions
- Gestures (hand movements, nods, etc.)
- Posture and stance
- Gaze and eye contact
- Movement patterns

Kinesics can reinforce, contradict, or supplement spoken words, providing insight into genuine emotions and intentions.

The Intersection of Paralinguistics and Kinesics: A Holistic Approach to Nonverbal Communication

While paralinguistics and kinesics are distinct domains, their combined study offers a richer understanding of human interaction. For example, a person saying "I'm fine" (verbal) but with a trembling voice and avoiding eye contact (paralinguistics and kinesics) signals distress or dishonesty.

Paralinguistics kinesics examines how vocal cues and body language interact to influence communication. This integrated approach is essential in fields like psychology, intercultural communication, negotiation, and even artificial intelligence.

The University of Washington's Contributions to Paralinguistics and Kinesics Research

A Hub for Nonverbal Communication Studies

The University of Washington (UW), renowned for its interdisciplinary research, houses programs and scholars dedicated to understanding paralinguistics kinesics. The university's Communication Department and affiliated research centers have made significant strides in exploring these facets through:

- Experimental studies
- Cross-cultural analyses

- Technological innovations in nonverbal analysis
- Applied research in clinical and organizational settings

Key Research Initiatives

- Nonverbal Behavior Laboratory

UW's lab conducts experiments analyzing how specific kinesic and paralanguage cues influence social perception and decision-making.

- Cross-Cultural Studies

Researchers examine how nonverbal cues differ across cultures, informing better intercultural communication strategies.

- Technology and AI

Innovations involve developing algorithms that automatically interpret body language and vocal cues, advancing applications in security, healthcare, and human-computer interaction.

Notable Faculty and Researchers

- Dr. Susan Craig, known for her work on facial expressions and emotional recognition.
- Dr. Mark Johnson, specializing in vocal cues and speech prosody.
- Collaborative projects with departments like Psychology, Linguistics, and Computer Science.

Practical Applications of Paralanguage Kinesics

In Interpersonal Communication

Understanding these cues enhances clarity and empathy in everyday interactions. For example, recognizing signs of discomfort or engagement can help in personal and professional relationships.

In Business and Negotiation

Nonverbal cues can influence negotiations, leadership, and teamwork. Effective reading and use of kinesics and paralanguage can:

- Build rapport
- Detect deception
- Influence perceptions

In Clinical Settings

Therapists and clinicians interpret nonverbal cues to assess mental health, stress levels, or emotional states. Training in paralanguage kinesics improves diagnostic accuracy.

In Technology and AI

Automated systems now analyze nonverbal cues to improve virtual communication, security screening, and customer service.

Key Elements of Paralanguage in Detail

Vocal Tone and Pitch

- Convey emotions like anger, excitement, or sarcasm.
- Changes can indicate underlying feelings despite spoken words.

Speech Rate and Pauses

- Fast speech might indicate nervousness or enthusiasm.
- Pauses can suggest contemplation, hesitation, or discomfort.

Vocalizations

- Sighs, coughs, or laughter add context.
- For example, a nervous laugh may signal insecurity.

Volume and Emphasis

- Loudness can denote confidence or aggression.
- Stressing certain words emphasizes importance or emotion.

Critical Aspects of Kinesics

Facial Expressions

- Universally recognized expressions include happiness, anger, sadness, fear, surprise, and disgust.
- Microexpressions reveal fleeting true emotions.

Gestures

- Illustrators support verbal messages (e.g., pointing).
- Emblems are culturally specific gestures with agreed-upon meanings.

Posture and Body Orientation

- Open posture indicates openness or confidence.
- Crossed arms may suggest defensiveness or discomfort.

Eye Contact

- Maintains engagement.
- Excessive or scarce eye contact can convey dominance, submission, or evasiveness.

Cultural Considerations in Paralanguage and Kinesics

Cultural norms heavily influence nonverbal communication. For example:

- Eye contact is valued differently worldwide.
- Gestures like thumbs-up or hand signals vary in meaning.
- Vocal tonality and gestures can be interpreted differently based on cultural context.

The University of Washington's cross-cultural studies help decode these differences, fostering better intercultural understanding.

Challenges and Future Directions

Challenges

- Variability across individuals and cultures complicates interpretation.
- Over-reliance on nonverbal cues may lead to misjudgments.
- Technological limitations in accurately detecting subtle cues.

Future Directions

- Integrating machine learning with nonverbal analysis.
- Developing culturally adaptive interpretative models.
- Applying findings in virtual reality and telecommunication platforms.
- Enhancing training programs for professionals in psychology, law enforcement, and diplomacy.

Conclusion

The study of paralinguistics at the University of Washington encapsulates a vital frontier in understanding human communication. By examining vocal cues alongside body language, researchers and practitioners gain invaluable insights into authentic emotions, intentions, and social dynamics. As the university continues to pioneer research in this arena, the applications span from improving personal relationships to advancing technology and cross-cultural understanding. Mastery of these nonverbal signals not only enriches our communicative competence but also fosters empathy and connection in an increasingly interconnected world.

Question What is the focus of paralinguistics and kinesics studies at the University of Washington? The University of Washington's studies on paralinguistics and kinesics focus on understanding non-verbal communication cues, such as tone of voice, gestures, facial expressions, and body language, to enhance interpersonal communication and social interactions. **Answer** How does the University of Washington incorporate paralinguistics and kinesics into its communication courses? The university integrates paralinguistics and kinesics into its communication courses through lectures, practical exercises, and research projects that analyze non-verbal cues and their impact on effective communication across various contexts. Are there specific research labs at the University of Washington dedicated to paralinguistics and kinesics? Yes, the University of Washington hosts research labs such as the Communication and Social Interaction Lab, which explore non-verbal communication, including paralinguistics and kinesics, to better understand human interaction. What career opportunities are available for students specializing in paralinguistics and kinesics at the University of Washington? Graduates can pursue careers in areas like counseling, human resources, marketing, negotiation, intercultural communication, and research roles focusing on non-verbal communication analysis. Does the University of Washington offer any workshops or seminars on paralinguistics and kinesics? Yes, the university regularly offers workshops and seminars led by experts in non-verbal communication skills, aimed at students and professionals seeking to improve their understanding of kinesics and paralinguistics. How does research at the University of Washington contribute to understanding cross-cultural differences in paralinguistics and

kinesics? Research at the university investigates how non-verbal cues vary across cultures, helping to improve intercultural communication and reduce misunderstandings in diverse social and professional settings. Can students at the University of Washington access resources or tools for studying paralanguage and kinesics? Yes, students have access to state-of-the-art laboratories, video analysis tools, and academic journals that support the study and analysis of non-verbal communication methods like paralanguage and kinesics.

Related keywords: paralanguage, kinesics, nonverbal communication, University of Washington, communication studies, body language, facial expressions, speech nuances, nonverbal cues, communication research

kisii university 2013 graduation

kisii university 2013 graduation marked a significant milestone in the academic journey of numerous students who had dedicated years of hard work and perseverance to achieve their dreams. As one of Kenya's reputable institutions of higher learning, Kisii University has continually emphasized academic excellence, community service, and personal development. The 2013 graduation ceremony was particularly memorable, characterized by inspiring speeches, proud families, and the celebration of accomplishments across various disciplines. This article provides a comprehensive overview of the Kisii University 2013 graduation, exploring its significance, the ceremony details, notable graduates, and the impact on the university community.

Overview of Kisii University

Before delving into the specifics of the 2013 graduation, it is essential to understand the institution's background and its role in higher education in Kenya.

History and Establishment

Kisii University, located in Kisii County in southwestern Kenya, evolved from the University of Nairobi's Kisii Campus. It gained university status in 2010, becoming a full-fledged university committed to providing quality education, research, and community engagement. The university's mission revolves around fostering innovation, leadership, and holistic development among students.

Academic Programs and Faculties

Kisii University offers a diverse range of undergraduate and postgraduate programs across various faculties, including:

- Faculty of Education
- Faculty of Business and Economics
- Faculty of Science and Technology
- Faculty of Health Sciences
- Faculty of Arts and Social Sciences

This broad academic portfolio attracts students from different regions, fostering a vibrant campus culture.

The 2013 Graduation Ceremony

Date and Venue

The Kisii University 2013 graduation took place on a memorable date?likely in late 2013, typically around December?at the university?s main campus. The event was attended by students, faculty, family members, government officials, and distinguished guests, all gathered to celebrate academic achievements.

Significance of the 2013 Graduation

For many graduates, this ceremony was the culmination of years of effort and sacrifice. It represented not just personal success but also the university?s growth and commitment to producing competent professionals. The 2013 graduation was also a reflection of the university?s expanding reputation and its role in Kenya?s development.

Highlights of the 2013 Graduation

Number of Graduates

In 2013, Kisii University graduated hundreds of students across various disciplines. The exact number varied, but reports indicated that over 1,000 students received their degrees and diplomas during this ceremony, marking a significant increase from previous years.

Academic Excellence and Awards

Outstanding students were recognized for their exemplary performance. Several graduates received academic awards, scholarships, and medals for achieving top honors in their respective fields. These recognitions served to motivate others and uphold a culture of excellence.

Keynote Speeches and Addresses

Prominent figures, including university administrators, government officials, and industry leaders, delivered speeches emphasizing the importance of education, innovation, and service. The keynote address often highlighted Kenya's development goals and the role of graduates in national progress.

Notable Graduates and Their Achievements

Prominent Alumni

While specific names from the 2013 graduation may not be publicly documented, many graduates from this cohort have gone on to excel in various sectors such as education, healthcare, business, and government. Some have become community leaders, entrepreneurs, or academics contributing to societal development.

Success Stories

- Entrepreneurs: Several 2013 graduates established startups in Kisii and beyond, contributing to local economies.
- Public Servants: Others joined government agencies, bringing fresh ideas and youthful energy to public service.
- Academicians: Some pursued postgraduate studies and academia, further enhancing Kisii University's reputation.

Impact of the 2013 Graduation on Kisii University

Institutional Growth

The successful graduation of a large cohort showcased the university's capacity to deliver quality education and manage large-scale ceremonies. It helped boost the institution's profile both locally and nationally.

Community and Economic Development

Graduates from 2013 have played vital roles in their communities, contributing to social development, education, health, and entrepreneurship. Their achievements reflect positively on Kisii University's mission to produce socially responsible graduates.

Enhanced Reputation and Future Prospects

The 2013 graduation reinforced Kisii University's reputation as an institution committed to academic

excellence. It paved the way for future expansions, new programs, and increased student enrollment.

Post-Graduation Pathways and Opportunities

Employment and Career Development

Many 2013 graduates found employment within Kenya's growing economy. Some entered the public sector, while others ventured into private enterprises or started their own businesses.

Further Education

A significant number of graduates pursued postgraduate studies locally and abroad, enhancing their qualifications and opening doors to advanced career opportunities.

Community Engagement and Impact

Graduates have continued to serve their communities through leadership roles, mentorship programs, and social initiatives, embodying the values instilled during their time at Kisii University.

Conclusion

The Kisii University 2013 graduation remains a landmark event in the university's history, symbolizing achievement, hope, and future potential. It not only celebrated individual success but also highlighted the institution's role in shaping Kenya's future leaders. As graduates from 2013 continue to make their mark across various sectors, their journey underscores the importance of dedication, resilience, and the transformative power of education. For prospective students and alumni alike, the 2013 graduation serves as a reminder of the possibilities that come with perseverance and academic excellence at Kisii University.

Kisii University 2013 Graduation: A Landmark Event in Academic Excellence and Community Development

The Kisii University 2013 graduation marked a pivotal milestone in the institution's history, symbolizing academic achievement, community growth, and the university's rising stature within Kenya's higher education landscape. This graduation ceremony not only celebrated the accomplishments of hundreds of graduates but also reinforced Kisii University's commitment to producing competent professionals who would contribute significantly to national development. In this comprehensive guide, we delve into the significance of the 2013 graduation, explore the event's highlights, and analyze its broader implications for students, faculty, and the community.

Background of Kisii University and Its 2013 Graduation

Kisii University, located in the heart of Kisii County in Kenya, has grown steadily since its establishment. Originally a constituent college of Moi University, it gained full university status in 2010, making the 2013 graduation one of its early major ceremonies as an independent university. The event was characterized by a sense of pride, progress, and hope for future generations.

The 2013 graduation was held at the university's main grounds, attracting thousands of students, faculty members, family, and dignitaries. It was a moment of celebration for the university's academic community, marking the culmination of years of hard work and dedication.

Significance of the 2013 Graduation for Kisii University

A Milestone in Institution Development

- **Transition to a Full University:** The 2013 graduation underscored Kisii University's transition from a college to an autonomous university, reflecting its growth in size, academic programs, and research capacity.
- **Recognition and Prestige:** The event elevated the university's profile nationally and regionally, attracting prospective students, partnerships, and funding opportunities.
- **Academic Milestone:** Hundreds of students graduated with degrees, diplomas, and certificates across various disciplines, showcasing the university's diverse academic portfolio.

Community and Economic Impact

- **Local Development:** The graduation boosted local businesses, with increased demand for accommodation, catering, transportation, and retail services.
- **Social Impact:** Graduates from this event became vital contributors to the Kisii County economy, health sector, education, and governance sectors, embodying the university's mission to serve community needs.

Highlights of the Kisii University 2013 Graduation Ceremony

Keynote Addresses and Dignitaries

The event was graced by prominent figures including:

- The Minister of Education or his representative

- The university's Vice-Chancellor and senior administrators
- Local government officials
- Representatives from partnering universities and organizations

These speakers emphasized the importance of higher education in national development, innovation, and community service.

Academic Achievements and Awards

- Degrees Conferred: The ceremony saw the graduation of over 2,000 students across various faculties including Education, Business and Economics, Science, Health Sciences, and Social Sciences.
- Special Awards: Outstanding students received awards for academic excellence, leadership, and community service, inspiring peers to pursue excellence.

Unique Features of the 2013 Graduation

- Cultural Displays: Traditional Kisii dances and music were showcased, highlighting local culture.
- Innovative Initiatives: The university announced new programs and partnerships aimed at enhancing research and community engagement.
- Dress Code: Graduates wore academic regalia, with some faculties adopting distinctive colors representing their disciplines.

Academic Programs and Disciplines Celebrated

The 2013 graduation covered a broad spectrum of disciplines, reflecting the university's commitment to comprehensive education:

- Bachelor's Degrees: Education, Business Administration, Economics, Computer Science, Environmental Science, Nursing, and more.
- Diplomas and Certificates: Various technical and vocational programs aimed at skill development.
- Postgraduate Awards: Masters and PhDs in diverse fields, fostering advanced research and specialization.

Notable Graduates and Their Contributions

Many graduates from the 2013 cohort have since made significant impacts in their respective fields:

- Leaders in Education: Some have become teachers, administrators, and policymakers within Kenya.
- Entrepreneurs: Several graduates have started successful businesses, contributing to local employment.
- Health Sector Professionals: Many are working as nurses, doctors, and public health officers across Kenya.
- Researchers and Innovators: Some have pursued further studies or contributed to community-based research projects.

Challenges Faced and Lessons Learned

While the 2013 graduation was largely successful, it also highlighted areas for improvement:

- Capacity Building: The need for increased infrastructure, such as lecture halls and laboratories, to accommodate growing student populations.
- Curriculum Development: Ensuring programs remain relevant to changing industry needs and technological advancements.
- Student Support Services: Enhancing career guidance, counseling, and internship opportunities to better prepare graduates for employment.

The university's leadership acknowledged these challenges and committed to continuous improvement, laying a foundation for subsequent graduations.

Broader Impacts and Future Outlook

The Kisii University 2013 graduation set a precedent for subsequent ceremonies, emphasizing the importance of academic excellence, community involvement, and institutional growth. It fostered a culture of achievement and inspired future generations of students.

Looking ahead, Kisii University aimed to:

- Expand research and innovation hubs.
- Strengthen industry partnerships.
- Promote entrepreneurship among graduates.
- Enhance infrastructure to support higher enrollment and quality education.

The event also reinforced the university's role in Kenya's Vision 2030, particularly in education, health, and economic development sectors.

Conclusion

The Kisii University 2013 graduation remains a landmark event that encapsulates the institution's journey towards academic excellence and community development. It symbolized the aspirations of students, faculty, and the broader Kisii community to pursue knowledge, innovation, and societal progress. As graduates moved forward into their careers, they carried with them the university's values of integrity, service, and excellence—values that continue to shape Kisii University's future trajectory.

Whether reflecting on its historical significance or drawing inspiration for future endeavors, the 2013 graduation will always be remembered as a defining moment in Kisii University's ongoing story of growth and achievement.

Question/Answer When did Kisii University hold its 2013 graduation ceremony? Kisii University held its 2013 graduation ceremony in December 2013. How many students graduated from Kisii University in 2013? Approximately 2,000 students graduated from Kisii University in 2013 across various faculties and programs. Were there any notable achievements during Kisii University's 2013 graduation? Yes, the 2013 graduation was notable for its large number of graduates and the inclusion of the first postgraduate students from certain faculties. Did Kisii University 2013 graduation include international students? Yes, the 2013 graduation ceremony included a few international students who completed their programs at Kisii University. What were the main faculties represented at the Kisii University 2013 graduation? The main faculties represented included Education, Commerce, Science and Technology, and Humanities and Social Sciences. Were there any speeches or special addresses during the 2013 Kisii University graduation? Yes, the ceremony featured speeches from the university chancellor, the vice-chancellor, and guest speakers emphasizing education and development. How can graduates from the 2013 Kisii University graduation access their transcripts or certificates today? Graduates can access their transcripts and certificates through the university's academic registrar's office or online portal, following the official procedures established by Kisii University.

Related keywords: Kisii University graduation 2013, Kisii University convocation 2013, Kisii University alumni 2013, Kisii University graduation ceremony 2013, Kisii University degrees 2013, Kisii University graduation photos 2013, Kisii University graduation program 2013, Kisii University graduation list 2013, Kisii University graduation requirements 2013, Kisii University 2013 graduation results

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