



# **AAPS NEWSLETTER**

**A Publication of the  
American Association of  
Phonetic Sciences**

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1998 Membership List

**March 1998  
Volume 25  
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**Officers of the  
American Association of Phonetic Sciences**

1997-98

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## Letter from the President

When Ray Colton asked me to write this "Letter from the President" (and after recovering from those initial moments of not having a clue what I would say), I realized that I do have something important that I'd like to discuss with the members of AAPS. You might call it a fresh look at an old theme.

Thinking back on conversations at past AAPS business meetings and at some of the writings of past presidents, one of the most frequently recurring themes seems to be that the participation level of the AAPS membership is . . . shall we say . . . less than optimal. Occasionally we members are called upon to make contributions to the Newsletter (great idea!), participate on the AAPS listserv (certainly to be encouraged), or present a paper at an AAPS-sponsored meeting (what more enjoyable and efficient way to share ideas?!). The problem is that we often don't do it. We see ourselves as already overcommitted, and a plea from AAPS is usually an easy one to ignore. The upshot is that there is little of what could truly be called AAPS-generated activity.

But, interestingly, AAPS lives on.

So, why does it live on if so few of its members seem to have so little time for it? Apparently we members must see AAPS as something important enough to support. AAPS must offer us something valuable as individuals and as a scientific community (granted, it's a loose community, but I would argue a community nonetheless). Although I wouldn't want to speculate for other members, I can tell you why AAPS is important to me and why I maintain my membership. Like most AAPS members, I wear several hats in my work—I am a scientist, professor (well, actually an associate professor), and occasionally a clinician. I see myself as someone who ". . . studies and teaches the acoustics, physiology, and perception of speech and communication" (from the definition of a phonetician provided by H. Hollien in the AAPS Newsletter, June, 1996, Vol. 23, No. 1, p. 7). Thus, I see myself as someone who fits into an association that is committed to the phonetic sciences. And, because I enjoy the support and stimulation of being part of a scientific community that has similar interests and goals as mine, I enjoy being a member of AAPS. Why wouldn't I want to be a member of an organization that is filled with many of my favorite colleagues and heroes?

That's my reason for being a member of AAPS. Yours may be different. But, the point is, we've all remained members because AAPS somehow improves the quality of our scientific and professional lives.

But there is still the problem that, for the most part, the membership's contributions to AAPS are few and far between. Perhaps part of this problem is that many of us (older) members are somewhat set in our ways and have become overcommitted with other activities and responsibilities. Perhaps what we need an infusion of more "fresh blood." What do you think?

What would you think if those of us who are in contact with students (or other emerging scientists) gave them a membership to AAPS? This is an inexpensive investment (still \$5.00/year—right, Sam?) with a potentially high pay-off. Last year I gave memberships to two doctoral students who are working with me in areas related to the phonetic sciences. This year I will encourage them to submit short summaries of their work to the Newsletter and to attend the AAPS annual business meeting.

What would you think about adding a student editor to the Newsletter to solicit student-generated material? My experience with a local neuroscience newsletter is that its student

section is often the most interesting and lively part of the publication. Ray, would you consider this? (*Eds note: absolutely, great idea.*)

What would you think about showcasing our students and their work? For example, students could be invited to present their research findings or work-in-progress at the next AAPS business meeting.

What would you think of coming up with some other ideas that would engage more of our students in AAPS?

If AAPS is going to remain viable, it will continue to need new members. Who better than the young and the enthusiastic to fill this need? For the phonetic sciences to continue to thrive, new bright scholars must be attracted so as to carry on the important work in the areas of acoustics, physiology, and perception of speech and communication. Who better to entice them into an exciting future in the phonetic sciences than we, the members of AAPS?

Please call or write to me with any comments you may have about these ideas or any others you might want to discuss.

Regards,

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*Special Session of interest to AAPS members to be held at the ASHA  
convention in San Antonio, November 1998*

**RECENT ADVANCES IN EXPERIMENTAL STUDIES OF  
NEURAL PLASTICITY AND REGENERATION**

Michael M. Merzenich  
Keck Center for Integrative Neuroscience  
UCSF  
San Francisco, CA

Preston E. Garraghty  
Department of Psychology  
Indiana University  
Bloomington, IN

Douglas A. Cotanche  
Department of Otolaryngology  
Children's Hospital  
Boston, MA

Moderated by:  
Steven M. Barlow  
Department of Speech and Hearing Sciences  
Program in Neuroscience  
Indiana University  
Bloomington, IN

The plasticity of the brain has been the subject of intense study in recent years. The capacity of the nervous system to change its wiring in response to changes in behavioral patterns and sensory environment has been described for visual, auditory, motor, and somatosensory systems. A major finding common to these studies is that the development and stability of synaptic connections in the nervous system are clearly influenced by the pattern of electrical activity and competitive interaction between adjacent nerve terminals. These findings have major implications for the development and habilitation of speech production, speech perception, and auditory processing. The following distinguished ensemble of neuroscientists will present recent experimental findings concerning mechanisms of plasticity and regeneration.

Dr. Garraghty will present data that relate to the constraints that exist which permit or prevent the reorganization of the cortical somatotopic map after peripheral nerve injury.

He will present the data that address the neurochemical mechanisms involved in the reorganization and relate these latter observations to comparable ones in the well-known model of memory, long-term potentiation in the hippocampus.

Dr. Merzenich shall first discuss aspects of the cortical plasticity contributing to skill learning in children and adults, focusing on some of the neurological “rules” governing learning and the mechanisms that account for them. He shall then describe several clear instances in which brain plasticity contributes to the behavioral phenomenology of neurological disabilities. Finally, Dr. Merzenich will outline how neurological principles governing plasticity processes can provide a basis for the design of novel, effective rehabilitation approaches.

Dr. Cotanche will present an overview of hair cell regeneration in the avian cochlea and its relationship to reinnervation. He will also describe the evidence for hair cell regeneration in the mammalian vestibular epithelia and the lack thereof in the mammalian cochlea. Dr. Cotanche will finish with a discussion of current research directions and theoretical considerations for the application of hair cell regeneration to the treatment of human deafness.

Sponsored by the Speech Science and Hearing Science Subcommittees

## **foNETiks**

a Network Newsletter for the International Phonetic Association  
and for the Phonetic Sciences

Editors: Linda Shockey, University of Reading, U.K.  
Gerry Docherty, Newcastle University, U.K.  
Paul Foulkes, Leeds University, U.K.  
Lisa Lim, National University of Singapore

The foNETiks archive can be found on the WWW at:

<http://www.mailbase.ac.uk/lists-f-j/fonetiks/>

Joining fonetiks

To join fonetiks send the following command, (typing your own personal names instead of firstname(s) and lastname)

join fonetiks firstname(s) lastname

as the only text in the body of a message addressed to:

[mailbase@mailbase.ac.uk](mailto:mailbase@mailbase.ac.uk)

Leaving fonetiks

To leave fonetiks send this command:

leave fonetiks

as the only text in the body of a message addressed to:

[mailbase@mailbase.ac.uk](mailto:mailbase@mailbase.ac.uk)

## **AAPS ANNUAL BUSINESS MEETING/SPECIAL PROGRAM**

- November 21, 1997
- Boston, MA
- The association held its annual business meeting in Boston on Friday evening, November 21, 1997. The meeting was opened at 7:00 pm and new business conducted by outgoing AAPS President, Robert Orlikoff. President Orlikoff restated the purpose of AAPS, to promote the phonetic sciences in a forum with people who understand our work best, our colleagues. Following these opening remarks by President Orlikoff, a general discussion ensued from the members present (approximately 20 in attendance) concerning the over emphasis ASHA places on “outcomes” versus “scientific bases”. This discussion lead to several comments regarding a topic of discussion which came out of the ASHA Board of Division Coordinators meeting which took place on Wednesday. There has been talk among a group of disgruntled scientists in ASHA to develop an “Academy of Research Scientists”. John Riski, chairman of ASHA’s Special Interest Division 5: Speech Science and Orafacial Disorders, would like to support such a notion through SID5. However, the talk seems to favor some autonomous group which affiliates with ASHA. Only time will tell where such a proposal may go, and what part AAPS would play in such a movement. In a related comment, attention was drawn to the name of our association, in that a “broader” name may attract more members. This too provided some interest, and may be a good topic to “kick around” the AAPS Listserv.

In the absence of the Executive Secretary, W. S. Brown, Jr., President Orlikoff read his written report which is as follows:

“This is one meeting I am sorry to have missed. It is difficult to say good bye to old friends and colleagues. Fortunately, I was able to attend a special session at the Symposium on Care of the Professional Voice in Philadelphia this past June in honor of Tom Shipp. Tom Hixon gave a wonderful and emotional farewell tribute to Tom, and Johan Sundberg summed up Tom’s professional contributions in fine fashion. I know Tom will be with you in spirit this evening, as will I, as AAPS pays its final tribute to one of its charter members and past presidents. Personally, Tom was a member of my “professional family”, as many of you in this room are, and I will miss him. His legacy to us will live forever in the research literature, where his pioneering and state-of-the-art work in EMG of the larynx and dedication to the phonetic sciences will keep his memory alive.

Again, this, year, I am able to report that the treasury is healthy and my annual report will be published in the next issue of the AAPS Newsletter. Have an evening to remember as you remember Tom, and to that end I hope that many of you will become more actively involved in the activities of our association and help continue to promote the phonetic sciences in America. My very best wishes to all of you”.

Respectfully,

W.S. Brown, Jr.  
Executive Secretary

The Editor-in-Chief's report was also read by President Orlikoff in Ray Colton's absence. In summary, Ray has stated on many occasions, "that the AAPS Newsletter is only as good as the membership wants to make it". Therefore, a plea again goes out to all members to please submit to Ray items for the Newsletter, including professional and personal announcements, teaching tips, new computer software, titles of new thesis and dissertations, technical votes, lab reports, and the like.

The Nominating Committee's report for 1997, James Mashie (chair), Lorraine Ramig, Richard McGuire, is as follows:

President: Jeanette Hoit (1997-99)

Vice President: Mary Louise Edwards (1997-99)

Councilor: James Flege (1997-2000)

Nominating Committee: Ruth Huntley-Bahr (1997-2000)

As there was no further old business from the floor, outgoing president, Bob Orlikoff, turned the meeting over to incoming president, Jeanette Hoit for discussion of new business. After a few brief comments of congratulations, most of the new business centered around next year's meeting, i.e., time, place, topic, etc. President Hoit discussed some potential plans to sponsor a scientific program at ASHA next November in San Antonio. Also discussed was AAPS's involvement with the upcoming IPS-98, to be held in Bellingham, WA, June 27-30, 1998. First announcements of that meeting should be coming out around the first of the year, according to the IPS-98 organizing committee. As of this time, details are not yet finalized as to exactly what role AAPS will play in IPS-98. Further details will be forthcoming in the next AAPS Newsletter.

As there was no further new business from the floor, the meeting was adjourned at approximately 7:30 pm.

Following the business meeting, an informal special program commenced in memory of Tom Shipp. Tom was an original organizer of AAPS, a Charter member, and served as president from 1979-81. His contributions to the phonetic sciences, in particular, and the speech and hearing profession, in general, were recognized by many of those in attendance, including special commemoratories by President Hoit, Tom Hixon, Doug Hicks, Tom Murry, Bob Orlikoff, Ron Netsell and Julie Barkmeir.

A short social gathering followed.

This report respectfully submitted by:

W.S. Brown, Jr.  
Executive Secretary  
Alice Dyson  
AAPS Member

**FROM THE AAPS MEMBERSHIP IN MEMORY OF THOMAS SHIPP:**

“Goodbye old friend, and although we will miss you, you will continue to live in our memories and in our hearts”

**Treasury Report**  
January 1, 1997 - December 31, 1997

**Assets**

Cash on Hand, December 31, 1996	\$1,595.16
1997 Membership Receipts	
53 Members @ \$15.00	795.00
5 Members @ \$5.00	25.00
1996 Dues (late payments)	
5 Members @ \$15.00	75.00
1 Student @ \$5.00	5.00
1998 Prepaid Members	
24 Members @ \$15.00	360.00
1999 Prepaid Members	
1 Member @ \$15.00	15.00
<b>TOTAL ASSETS</b>	<b>\$2,870.16</b>

**Liabilities**

<b>CHECKS:</b>	
#343 Department of State (1997 Annual Corp. Report)	\$61.25
#344 University of Florida, IASCP (Services and Expenses, 1996)	862.88
#345 US Postmaster (stamps, general mailing)	32.00
#346 Ray Colton (Federal Express, AAPS Newsletter Master Copy)	13.75
#347 Marsh Printing (AAPS Envelopes)	64.35
#348 US Postmaster (stamps, general mailing)	96.00
#349 Aramark (1997 AAPS Social Hour)	493.87
#350 cancelled	
#351 US Postmaster (1988 P.O. Box Rental)	58.00
Service Charges	50.00
<b>TOTAL LIABILITIES</b>	<b>\$1,732.10</b>
<b>BALANCE, DECEMBER 31, 1997</b>	<b>\$1,138.06</b>

## Announcing IPS-98

An international conference sponsored by the International Society of Phonetic Sciences to be held at Western Washington University in Bellingham, Washington, June 27-30, 1998.

- IPS-98 is a satellite congress of ICA/ASA to be held in Seattle, June 20-26.
- ICA = International Congress on Acoustics
- ASA = Acoustical Society of America
- ICA/ASA '98 Secretariat email: ICA-ASA98@apl.washington.edu

### **Congress Site: Western Washington University**

Officers:

- Dr. Rudolf Weiss - Secretary-General, IPS-98
- Dr. Harry Hollien - Chair, Organizing Committee
- Dr. Jens-Peter Koester - Co-Chair, Organizing Committee, Chair, Scientific Committee
- Dr. Hermann Kuenzel - Chair, Program Committee
- Dr. Angelika Braun - Co-Chair, Program Committee
- Dr. Ruth Huntley-Bahr - Chair, Publications committee
- Patricia Hollien - Co-Chair, Publications Committee

Sponsors:

- International Society of Phonetic Sciences
- American Association of Phonetic Sciences
- International Association for Forensic Phonetics
- Korean Phonetics Society
- Instit. Phonetik, University Trier
- Instit. Advanced Study Communication Processes, University of Florida
- Linguistic Program, Western Washington University

Organizing Committee

- Harry Hollien - Chair, USA
- J-P Koester - Co-chair, Germany
- Rudolf Weiss - USA
- Robert Orlikoff - USA
- Hyun Bok Lee - Korea
- Jeanette Hoit - USA
- Peter French - UK

## Program Committee

- Hermann Kuenzel - Chair, Germany
- Angelika Braun - Co-chair, Germany
- Hyun Bok Lee - Korea

## Scientific Committee:

- Rudolf Weiss, USA
- Harry Hollien, USA
- Ruth Huntley-Bahr, USA
- Angelika Braun, Germany
- Hermann Kuenzel, Germany
- Jens-Peter Koester, Germany - Chair
- Rodmonga Potapowa, Russia
- Mario Rossi, France
- Heinz Morioka, Japan
- J. Peter French, U.K.
- Asher Laufer, Israel
- Ricardo Molina de Figuereido, Brazil
- Wiktor Jassem, Poland
- Hyun Bok Lee, Korea

## Publications Committee

- Ruth Huntley-Bahr - Chair, USA
- Patricia Hollien - Co-chair, USA

## Papers will be given in :

- acoustics of speech
- interface of phonetics and engineering
- new and original contributions in any area of research in phonetic sciences

April 30, 1998 Early Registration Deadline

## **Fees**

A special package has been negotiated for IPS-98. The Congress-Housing package includes:

Congress fees plus

- six coffees/snacks
- a reception
- a banquet

## Accommodations

### Three nights lodging

- Three breakfasts
- Three luncheons

### Rates

	Early	Regular
Double occupancy	\$295	\$325
Single occupancy	\$325	\$365
Commuter package (no lodging or breakfasts)	\$190	\$230
Students & accompanying persons	subtract \$60 from any package	

### Other Costs

1. Additional days for rooms (per person, per night)  
Double: \$25; Single: \$34 (no meals)
2. Airporter shuttle from SeaTac (round trip): \$52
3. Parking on campus (3 days): \$15
4. Banquet only: \$25

Please note that it is not necessary for IPS-98 participants to also attend ICA-ASA Congress in Seattle (June 20-27). However, ICA/ASA is a very important activity and such participation is strongly encouraged.

Please direct all inquiries regarding housing and registration to:

IPS-98  
c/o Institutes and Conferences  
University Extended Programs, MS-9042  
Western Washington University  
Bellingham, WA 98225-9042  
USA  
(FAX 360- 650- 6858)

Please direct all inquiries regarding papers/presentations to:

Dr. Hermann J. Kuenzel, PhD  
IPS-98 Program Chair  
Head Speaker Identification Section  
BKA KT 54  
D-65173 Wiesbaden, Germany  
FAX: +49.611.55.5427  
Email: [angel.br@t.-online.de](mailto:angel.br@t.-online.de)

For other concerns, direct inquiries to:

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## **The Minifie Symposium**

Saturday, June 27, 1998

(immediately following the Seattle meeting of the Acoustical Society of America)  
We hope you can join us for this meeting of extraordinary speech scientists. The Minifie Symposium is being held in honor of Fred Minifie, who is retiring this year.

Hosted by

The Department of Speech and Hearing Sciences and The University of Washington at the UW Faculty Club.

## **The Program includes**

Robert Ringel	Opening Remarks
Patricia Kuhl	Speech, language, and the brain: Experience alters perception
Irv Hochberg	Communication Sciences and Disorders: A Discipline for Change
Ron Netsell	Speech Aeromechanics
Jim Curtis	An Old Timer Looks in the Rear View Mirror
Ray Kent	Objective analyses of the human voice: identifying individuals, their emotions, and sometimes their diseases
Ken Stevens	Acoustics as a Window to Articulation and to Linguistic Units
Harvey Sussman	A Retrospective Look at 10 Years of Locus Equation Research: It Can't Explain El Nino, Asian Monetary Crisis, Paula Jones Law Suit
Tom Hixon	Speech Breathing Across the Lifespan: Emergence, Refinement, and Adaptation

Dan Boone will host an evening of good friends, good food, and fond memories. Breakfast, Lunch, and the Banquet are included in the Registration fee. Registration for this full day event is \$25 (\$15 for students) payable by check to SPHSC. Space is limited, so please register now. Please see our website for more complete and updated information:  
<http://weber.u.washington.edu/~spectrum/symposium>

For additional information, contact:

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Seattle, WA 98105-6246  
phone: 206-616-5273

Registration can be faxed to 206-543-1093, but must be followed within one week by your registration payment.

## **AAPS WEB SITE**

AAPS now has a web site, or at least the start of one. Thanks to Jim Mahshie and Tim Brunnel, the AAPS Home Page is available for member perusal and input. The site is still very much under construction but stop by and see how it is progressing. Hopefully, all of the pieces will be coming together very soon. You may want to drop Jim or Tim an email with suggestions.

Address: <http://www.gallaudet.edu:80/~aapsjm/index.html>

**AAPS sponsored session at the IPS-98 meeting in Bellingham,  
Washington, June 27-30, 1998. This session will be held on  
Sunday morning, June 28, 1998**

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**Early Speech and Language Development**

Christopher A. Moore, Ph.D.  
University of Washington, Seattle

Panel Facilitator  
Ray D. Kent, Ph.D.  
University of Wisconsin-Madison

Harvey M. Sussman, Ph.D.  
University of Texas, Austin

Carol Stoel-Gammon, Ph.D.  
University of Washington, Seattle

The proposed session brings together researchers who are actively pursuing questions related to speech and language development. This promises to be a very invigorating discussion of an infrequently visited topic. Abstracts by each of the presenters are given below.

Early Development of Mandibular, Respiratory, and Labial Coordination Antecedent to Speech Production Christopher A. Moore, Ph.D.

A description of development of speech motor control, absent supporting empirical data, entails an assumed process of skill development. Several candidate developmental processes are commonly proposed: convergence of extant skills into speech production; independent emergence of speech motor control; and adaptation of existing complex behaviors to speech production, which appears only as a modification of those behaviors. A series of investigations in our laboratories have been completed to evaluate a range of prespeech behaviors with respect to their relationships to emerging speech. A summary of these results will be the primary focus of this portion of the panel discussion. Specific experimental results are derived from: 7 a longitudinal investigation of the development of chewing, 7 a study of coordination of lip muscle activity for speech and nonspeech movements, 7 a description of respiratory motor control comparing speech breathing and rest breathing, 7 a study of mandibular coordination in 15-month-olds. These results will be discussed with consideration given to a more generalized model of speech development.

Title and Abstract of Papers to be presented

## Specification of Models of Speech Development

Ray D. Kent, Ph.D.

The development of speech in children is in large part the learning of a motor skill. Because speech is produced with a complex, multi-articulate system, this skill is not trivial. As a further complication, the anatomic system of speech production changes in size, shape, relative location of structures, biomechanical properties, and neurologic regulation. Although knowledge of these developmental issues is very limited, we know enough to state unequivocally that some of the models and concepts formulated for adult speech are not directly applicable to the speech of children. This part of the program summarizes the anatomic development of the speech production system and considers the implications of anatomic changes for the motor control of speech. The information is directed toward the ultimate goal of specifying age- and sex-appropriate models of speech production. The following six questions will be answered: (1) What is subsumed under the concept of “growth of the speech production system?” (2) What is the general pattern of growth and development of the physical structures that comprise the respiratory, laryngeal, and upper airway subsystems of speech? (3) What is the relation between form and function in the development of the speech production system? (4) What is the relation between developmental biology and developmental phonetics? (5) What general principles derived from studies of anatomy and physiology should be considered in establishing a neurodevelopmental theory of children’s speech? (6) What are the major implications of the study of growth and development for clinical assessment and intervention? Finally, it will be emphasized that the speech sciences are only slowly generating much-needed information on developmental aspects of speech and voice. It is proposed that scientists interested in these problems establish a forum for communication.

## Universal Patterns and Language-Specific Features in the Emergence of Speech

Carol Stoel-Gammon, Ph.D.

Studies of prelinguistic vocal development have revealed a set of universal phonetic patterns in infants’ productions, regardless of the language to which they are exposed. These patterns have been documented in three domains: consonantal inventories; syllable structure; and consonant-vowel sequences. As the infant moves from babble to speech, phonetic characteristics of the ambient language are overlaid onto the universal patterns, thereby expanding the range of segmental types and syllable structures produced. This presentation will summarize findings from recent crosslinguistic studies of English, Swedish and French and trace the emergence of language-specific features in the speech of young children raised in these three language environments.

## An Acoustic Analysis of the Development of CV Coarticulation: A Case Study

Harvey M. Sussman, Ph.D.

The production of a stop consonant followed by a vowel (the CV) is probably the most extensively studied articulatory gesture in language. Despite this experimental scrutiny the mechanisms responsible for its production, perception, and neural representation are continually being debated. The coarticulated nature of this speech gesture has precluded any simple and straight forward account of its invariant perception in the face of a highly variable acoustic structure. Recent cross-linguistic studies have shown that adult speakers

modulate the degree of coarticulation of the vowel onto the pre-vocalic stop to maximally contrast place of articulation categories in acoustic space. Children acquiring a language must likewise learn how to adjust and tweak coarticulation, across vowel contexts, so that maximally distinctive acoustic sets of signals are produced that sufficiently contrast place of articulation categories. From the CV's primordial origin and existence in prespeech babbling, to its precisely coarticulated form at phonological maturity, there exists a wide-ranging repertoire of articulatory forms. This discussion will describe the results of a longitudinal acoustic study of CV syllables ("bV, dV, gV") produced by a single female child, from 7 to 40 months. The data begin with canonical babbling, progress to CVs extracted from first words, and end with CVs extracted from words spoken during natural spontaneous speech. In total, 7,714 utterances were analyzed - 3,153 /bV/, 3,040 /dV/ and 1,521 /gV/ syllables. The metric used, locus equations, will be described in relation to their application to developmental studies of language acquisition.

## **AAPS DUES CALL**

AAPS Dues for 1998 are now due. Please check your records and if you have not yet paid your dues for 1998, please send your check as soon as possible. Dues are \$15.00 for members and \$5.00 for students. Mail to

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