## Penelope M Sanderson

List of Publications by Year in descending order

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154 papers 3,761 citations

147801 31 h-index 56 g-index

156 all docs

156 docs citations

156 times ranked

2049 citing authors

| #  | Article   | IF  | Citations |
|----|---|-----|-----------|
| 1  | Attention to Changes on a Head-Worn Display: Two Preclinical Studies with Healthcare Scenarios. Human Factors, 2024, 66, 103-125.   | 3.5 | 2         |
| 2  | Examining the efficacy of vibrotactile displays for monitoring patient vital signs: Six laboratory studies of change detection and state identification Journal of Experimental Psychology: Applied, 2022, 28, 10-34. | 1.2 | 1         |
| 3  | A review of the effects of head-worn displays on teamwork for emergency response. Ergonomics, 2022, 65, 188-218.  | 2.1 | 7         |
| 4  | SPECTRa: An Online Tool for Simulating Prehospital Patient Care. Herd, 2022, 15, 375-394.   | 1.5 | 1         |
| 5  | Supporting Anaesthetists during â€~Red Blanket' Trauma Surgery: An Analysis of Work Practices and Requirements for a Head-Worn Display Support System. , 2022, , .  |     | 1         |
| 6  | Signaling Patient Oxygen Desaturation with Enhanced Pulse Oximetry Tones. Biomedical Instrumentation and Technology, 2022, 56, 46-57.   | 0.4 | 1         |
| 7  | Improving pulse oximetry auditory displays: Anesthesiologists' perceptions. Acta Anaesthesiologica<br>Scandinavica, 2022, 66, 1027-1028.  | 1.6 | 1         |
| 8  | Similarity of expert clinicians' rank order of differential diagnoses in a newborn resuscitation context. Resuscitation Plus, 2022, 11, 100263.   | 1.7 | 0         |
| 9  | Interruptions to Intensive Care Nurses and Clinical Errors and Procedural Failures: A Controlled Study of Causal Connection. Journal of Patient Safety, 2021, 17, e1433-e1440.  | 1.7 | 14        |
| 10 | Defining information needs in neonatal resuscitation with work domain analysis. Journal of Clinical Monitoring and Computing, 2021, 35, 689-710.  | 1.6 | 7         |
| 11 | Spearcon compression levels influence the gap in comprehension between untrained and trained listeners Journal of Experimental Psychology: Applied, 2021, 27, 69-83.  | 1.2 | 5         |
| 12 | Head-Worn Displays for Emergency Medical Services Staff. , 2021, , .  |     | 10        |
| 13 | The Use of Head-Worn Displays for Vital Sign Monitoring in Critical and Acute Care: Systematic Review. JMIR MHealth and UHealth, 2021, 9, e27165.   | 3.7 | 7         |
| 14 | Concordance of expert clinicians' interpretations of the newborn's true physiological state.<br>Pediatric Research, 2021, , .   | 2.3 | 1         |
| 15 | Design and Evaluation of a Head-Worn Display Application for Multi-Patient Monitoring. , 2021, , .  |     | 5         |
| 16 | Need for a new paradigm in the design of alarms for patient monitors and medical devices. British Journal of Anaesthesia, 2021, 127, 677-680.   | 3.4 | 4         |
| 17 | Nurses' use of auditory alarms and alerts in high dependency units: A field study. Applied Ergonomics, 2021, 96, 103475.  | 3.1 | 4         |
| 18 | Head-worn displays for healthcare and industry workers: A review of applications and design. International Journal of Human Computer Studies, 2021, 154, 102628.  | 5.6 | 9         |

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| 19 | Smooth or Stepped? Laboratory Comparison of Enhanced Sonifications for Monitoring Patient Oxygen Saturation. Human Factors, 2020, 62, 124-137.  | 3.5 | 6         |
| 20 | Evaluation of an enhanced pulse oximeter auditory display: a simulation study. British Journal of Anaesthesia, 2020, 125, 826-834.  | 3.4 | 7         |
| 21 | Evaluating Impacts of Head Worn Displays on Teamwork in Emergency Response: Review of Challenges for the Field. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1607-1607.   | 0.3 | 1         |
| 22 | Understanding Patterns in Neonatal Trajectories in the First 10 Minutes After Birth. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 684-684.  | 0.3 | 0         |
| 23 | Comparison Between Head-Mounted Displays Regarding The Resumption of A Disrupted Work Task. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 364-365.   | 0.3 | 1         |
| 24 | Comparison of Auditory Icon Alarms and Spearcon Sequences for Patient Monitoring. Proceedings of the Human Factors and Ergonomics Society, 2020, 64, 1027-1027.   | 0.3 | 1         |
| 25 | From bartending interruptions to medication delivery interruptions: Managing the risks of a high-fidelity simulation study with pilot research Journal of Experimental Psychology: Applied, 2020, 26, 522-537.                            | 1.2 | 0         |
| 26 | The impact of concurrent linguistic tasks on participants' identification of spearcons. Applied Ergonomics, 2019, 81, 102895.   | 3.1 | 7         |
| 27 | Interruptions in Health Care: Assessing Their Connection With Error and Patient Harm. Human Factors, 2019, 61, 1025-1036.   | 3.5 | 11        |
| 28 | The Impact of Head-Worn Displays on Strategic Alarm Management and Situation Awareness. Human Factors, 2019, 61, 537-563.   | 3.5 | 27        |
| 29 | A comparison of two designs for earcons conveying pulse oximetry information. Applied Ergonomics, 2019, 78, 110-119.  | 3.1 | 4         |
| 30 | Supporting multiple patient monitoring with head-worn displays and spearcons. Applied Ergonomics, 2019, 78, 86-96.  | 3.1 | 22        |
| 31 | An exploratory clinical evaluation of a head-worn display based multiple-patient monitoring application: impact on supervising anesthesiologists' situation awareness. Journal of Clinical Monitoring and Computing, 2019, 33, 1119-1127. | 1.6 | 24        |
| 32 | Developing safe devices for neonatal care. Seminars in Perinatology, 2019, 43, 151176.  | 2.5 | 3         |
| 33 | Comparison of Standard and Enhanced Pulse Oximeter Auditory Displays of Oxygen Saturation: A Laboratory Study With Clinician and Nonclinician Participants. Anesthesia and Analgesia, 2019, 129, 997-1004.                                | 2.2 | 9         |
| 34 | Spearcons for Patient Monitoring: Program of Laboratory-Based Feasibility Studies. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 663-667.  | 0.3 | 1         |
| 35 | Cueing Attention to a Matrix of Values on a Head-Worn Display: Four Studies with a Multiple Patient Monitoring Task. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 1771-1771.  | 0.3 | 0         |
| 36 | The Impact of Concurrent Linguistic Tasks on Participants' Identification of Spearcons. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 668-668.   | 0.3 | 0         |

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| 37 | Multiple Patient Monitoring in High Dependency Units: A Field Study. Proceedings of the Human Factors and Ergonomics Society, 2019, 63, 669-669.  | 0.3          | O         |
| 38 | A Novel Auditory Display for Neonatal Resuscitation: Laboratory Studies Simulating Pulse Oximetry in the First 10 Minutes After Birth. Human Factors, 2019, 61, 119-138.                                | 3.5          | 10        |
| 39 | Spearcon Sequences for Monitoring Multiple Patients: Laboratory Investigation Comparing Two Auditory Display Designs. Human Factors, 2019, 61, 288-304.   | 3 <b>.</b> 5 | 10        |
| 40 | Monitoring vital signs with time-compressed speech Journal of Experimental Psychology: Applied, 2019, 25, 647-673.  | 1.2          | 12        |
| 41 | Applying social network analysis to the examination of interruptions in healthcare. Applied Ergonomics, 2018, 67, 50-60.  | 3.1          | 33        |
| 42 | More evidence for a "black box―to measure and improve outcomes in the delivery room. Resuscitation, 2018, 132, A3-A4.   | 3.0          | 2         |
| 43 | Factors associated with referral offer and acceptance following supportive care problem identification in a comprehensive cancer service. European Journal of Cancer Care, 2018, 27, e12869.            | 1.5          | 13        |
| 44 | Detection of visual stimuli on monocular peripheral head-worn displays. Applied Ergonomics, 2018, 73, 167-173.  | 3.1          | 11        |
| 45 | Two sides to every story: The Dual Perspectives Method for examining interruptions in healthcare. Applied Ergonomics, 2017, 58, 102-109.  | 3.1          | 23        |
| 46 | The cognitive aids in medicine assessment tool (CMAT) applied to five neonatal resuscitation algorithms. Journal of Perinatology, 2017, 37, 387-393.  | 2.0          | 10        |
| 47 | Spearcons for Patient Monitoring: Laboratory Investigation Comparing Earcons and Spearcons.<br>Human Factors, 2017, 59, 765-781.  | 3 <b>.</b> 5 | 19        |
| 48 | Importance of â€~scene organisation' for neonatal resuscitation teamwork. Australian Critical Care, 2017, 30, 118.  | 1.3          | 0         |
| 49 | Interruptions, visual cues, and the microstructure of interaction: Four laboratory studies.<br>International Journal of Human Computer Studies, 2017, 103, 77-94.                                       | 5.6          | 2         |
| 50 | Using a Sequence of Earcons to Monitor Multiple Simulated Patients. Human Factors, 2017, 59, 268-288.   | 3.5          | 13        |
| 51 | Traditions of research into interruptions in healthcare: A conceptual review. International Journal of Nursing Studies, 2017, 66, 23-36.  | 5.6          | 29        |
| 52 | Rasmussen and the boundaries of empirical evaluation. Applied Ergonomics, 2017, 59, 649-656.  | 3.1          | 11        |
| 53 | Effectiveness of enhanced pulse oximetry sonifications for conveying oxygen saturation ranges: a laboratory comparison of five auditory displays. British Journal of Anaesthesia, 2017, 119, 1224-1230. | 3.4          | 16        |
| 54 | The Effect of Conventional Screens vs. Head-Mounted Displays on Alarm Monitoring Strategies. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1555-1555.                              | 0.3          | 0         |

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| 55 | Using Earcons to Monitor Multiple Patients. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 633-633.  | 0.3         | 0         |
| 56 | Interruptions in the Healthcare Workplace. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 532-532.   | 0.3         | 0         |
| 57 | Continuous information displays for multiple patient monitoring. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1556-1556.   | 0.3         | 2         |
| 58 | Vibrotactile Displays of Pulse Oximetry. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 1557-1557.   | 0.3         | 1         |
| 59 | In the Aftermath. Anesthesia and Analgesia, 2016, 122, 1614-1624.  | 2.2         | 7         |
| 60 | The Sounds of Desaturation: A Survey of Commercial Pulse Oximeter Sonifications. Anesthesia and Analgesia, 2016, 122, 1395-1403.   | 2.2         | 23        |
| 61 | The effectiveness of pulse oximetry sonification enhanced with tremolo and brightness for distinguishing clinically important oxygen saturation ranges: a laboratory study. Anaesthesia, 2016, 71, 565-572.      | 3.8         | 17        |
| 62 | Conducting Comparable Research in Representative Worlds. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 248-248.   | 0.3         | 1         |
| 63 | Improving the detectability of oxygen saturation level targets for preterm neonates: A laboratory test of tremolo and beacon sonifications. Applied Ergonomics, 2016, 56, 160-169.                               | 3.1         | 16        |
| 64 | The effect of a secondary task on identification accuracy of oxygen saturation ranges using an enhanced pulse oximetry sonification. Proceedings of the Human Factors and Ergonomics Society, 2016, 60, 628-632. | 0.3         | 0         |
| 65 | The effect of two cognitive aid designs on team functioning during intraâ€operative anaphylaxis emergencies: a multiâ€centre simulation study. Anaesthesia, 2016, 71, 389-404.                                   | 3.8         | 68        |
| 66 | Obstacles to research on the effects of interruptions in healthcare. BMJ Quality and Safety, 2016, 25, 392-395.  | 3.7         | 26        |
| 67 | Time without ventilation during intubation in neonates as a patient-centred measure of performance. Resuscitation, 2016, 105, 41-44.   | 3.0         | 5         |
| 68 | Novel Pulse Oximetry Sonifications for Neonatal Oxygen Saturation Monitoring. Human Factors, 2016, 58, 344-359.  | <b>3.</b> 5 | 22        |
| 69 | Incident Analysis. Journal of Cognitive Engineering and Decision Making, 2016, 10, 197-221.  | 2.3         | 9         |
| 70 | Novel Pulse Oximetry Sonifications for Eyes Free Monitoring. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 536-536.   | 0.3         | 1         |
| 71 | Tactile Displays of Pulse Oximetry. Proceedings of the Human Factors and Ergonomics Society, 2015, 59, 581-585.  | 0.3         | 6         |
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| 73 | Comparison of the identification and ease of use of two alarm sound sets by critical and acute care nurses with little or no music training: a laboratory study. Anaesthesia, 2015, 70, 818-827.                            | 3.8         | 25        |
| 74 | How do interruptions affect clinician performance in healthcare? Negotiating fidelity, control, and potential generalizability in the search for answers. International Journal of Human Computer Studies, 2015, 79, 85-96. | 5.6         | 29        |
| 75 | Human Factors and Ergonomics. , 2015, , 297-305.  |             | 11        |
| 76 | Emergency Medical Equipment Storage. Human Factors, 2014, 56, 958-972.  | 3.5         | 4         |
| 77 | Development and Validation of a Multilevel Model for Predicting Workload Under Routine and Nonroutine Conditions in an Air Traffic Management Center. Human Factors, 2014, 56, 287-305.                                     | <b>3.</b> 5 | 19        |
| 78 | A formative approach to the strategies analysis phase of cognitive work analysis. Theoretical Issues in Ergonomics Science, 2014, 15, 215-261.  | 1.8         | 19        |
| 79 | The Effect of Visual Cues on How People Handle Interruptions. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 250-254.   | 0.3         | O         |
| 80 | The Development and Testing of SAfER. Journal of Cognitive Engineering and Decision Making, 2014, 8, 162-186.   | 2.3         | 16        |
| 81 | Evaluating the generalizability of the Organizational Constraints Analysis framework: a hospital bed management case study. Cognition, Technology and Work, 2014, 16, 229-246.  | 3.0         | 4         |
| 82 | Prospective Memory in Complex Sociotechnical Systems. Zeitschrift Fur Psychologie / Journal of Psychology, 2014, 222, 100-109.  | 1.0         | 20        |
| 83 | Tactile Displays of Pulse Oximetry in Integrated and Separated Configurations. Proceedings of the Human Factors and Ergonomics Society, 2014, 58, 674-678.  | 0.3         | 14        |
| 84 | Relative Position Vectors. Human Factors, 2013, 55, 946-964.  | 3.5         | 10        |
| 85 | An Organizational Resilience-Based Human Factors Safety Method. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1693-1697.   | 0.3         | 1         |
| 86 | Evaluating the Redesign of an ICU Bedside Emergency Equipment Drawer. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 678-682.   | 0.3         | 1         |
| 87 | The Effect of Individual Differences on How People Handle Interruptions. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 868-872.  | 0.3         | 14        |
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| 89 | Toward Open Behavioral Science. Psychological Inquiry, 2012, 23, 244-247.   | 0.9         | 33        |
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| 92  | The Accuracy of Clinical Assessments as a Measure for Teamwork Effectiveness. Simulation in Healthcare, 2011, 6, 260-268.   | 1.2 | 9         |
| 93  | Multisensory Integration With a Head-Mounted Display: Background Visual Motion and Sound Motion. Human Factors, 2010, 52, 78-91.  | 3.5 | 11        |
| 94  | Interruption management in the intensive care unit: Predicting resumption times and assessing distributed support Journal of Experimental Psychology: Applied, 2010, 16, 317-334.     | 1.2 | 120       |
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| 97  | Monitoring with Head-Mounted Displays in General Anesthesia. Anesthesia and Analgesia, 2010, 110, 1032-1038.  | 2.2 | 64        |
| 98  | Multisensory Integration With a Head-Mounted Display: Role of Mental and Manual Load. Human Factors, 2010, 52, 92-104.  | 3.5 | 4         |
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| 100 | Head-mounted displays and multisensory integration: Replications and challenges. Proceedings of the Human Factors and Ergonomics Society, 2009, 53, 1131-1135.                        | 0.3 | 1         |
| 101 | Interruptions in healthcare: Theoretical views. International Journal of Medical Informatics, 2009, 78, 293-307.  | 3.3 | 218       |
| 102 | Clinical Implementation of a Head-Mounted Display of Patient Vital Signs., 2009,,.  |     | 15        |
| 103 | Auditory displays in anesthesiology. Current Opinion in Anaesthesiology, 2009, 22, 788-795.   | 2.0 | 39        |
| 104 | Interruptions and Blood Transfusion Checks: Lessons from the Simulated Operating Room. Anesthesia and Analgesia, 2009, 108, 219-222.  | 2.2 | 54        |
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| 106 | Patient monitoring with head-mounted displays. Current Opinion in Anaesthesiology, 2009, 22, 796-803.   | 2.0 | 24        |
| 107 | Sonification design for complex work domains: Dimensions and distractors Journal of Experimental Psychology: Applied, 2009, 15, 183-198.  | 1.2 | 18        |
| 108 | Advanced Auditory Displays and Head-Mounted Displays: Advantages and Disadvantages for Monitoring by the Distracted Anesthesiologist. Anesthesia and Analgesia, 2008, 106, 1787-1797. | 2.2 | 76        |

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| 110 | Are Melodic Medical Equipment Alarms Easily Learned?. Anesthesia and Analgesia, 2008, 106, 501-508.  | 2.2 | 87        |
| 111 | Investigating Human-System Interaction With an Integrated Hydropower and Market System Simulator. IEEE Transactions on Power Systems, 2007, 22, 762-769. | 6.5 | 8         |
| 112 | Overlapping Melodic Alarms Are Almost Indiscriminable. Human Factors, 2007, 49, 637-645.   | 3.5 | 129       |
| 113 | Modeling and Predicting Mental Workload in En Route Air Traffic Control: Critical Review and Broader Implications. Human Factors, 2007, 49, 376-399.     | 3.5 | 254       |
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| 115 | Designing and evaluating healthcare ICT innovation: a cognitive engineering view. Studies in Health Technology and Informatics, 2007, 130, 3-12.         | 0.3 | 2         |
| 116 | The multimodal world of medical monitoring displays. Applied Ergonomics, 2006, 37, 501-512.  | 3.1 | 64        |
| 117 | Evaluating functional displays for hydropower system: model-based guidance of scenario design. Cognition, Technology and Work, 2006, 8, 269-282.         | 3.0 | 13        |
| 118 | Advanced Patient Monitoring Displays: Tools for Continuous Informing. Anesthesia and Analgesia, 2005, 101, 161-168.                                      | 2.2 | 72        |
| 119 | Visual and auditory attention in patient monitoring: a formative analysis. Cognition, Technology and Work, 2004, 6, 172-185.                             | 3.0 | 20        |
| 120 | Tailoring reveals information requirements: the case of anaesthesia alarms. Interacting With Computers, 2004, 16, 271-293.                               | 1.5 | 34        |
| 121 | Minimal Instrumentation May Compromise Failure Diagnosis With an Ecological Interface. Human Factors, 2004, 46, 316-333.                                 | 3.5 | 20        |
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| 123 | Sonification Supports Eyes-Free Respiratory Monitoring and Task Time-Sharing. Human Factors, 2004, 46, 497-517.  | 3.5 | 2         |
| 124 | Process monitoring and configural display design: A neuroimaging study. Theoretical Issues in Ergonomics Science, 2003, 4, 151-174.                      | 1.8 | 12        |
| 125 | Designing Teams for First-of-a-Kind, Complex Systems Using the Initial Phases of Cognitive Work Analysis: Case Study. Human Factors, 2003, 45, 202-217.  | 3.5 | 102       |
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| 127 | Ecological Interface Design for Pasteurizer II: A Process Description of Semantic Mapping. Human Factors, 2002, 44, 222-247.   | 3.5 | 52        |
| 128 | Work domain analysis and sensors II: Pasteurizer II case study. International Journal of Human Computer Studies, 2002, 56, 597-637.  | 5.6 | 31        |
| 129 | Work domain analysis and sensors I: principles and simple example. International Journal of Human Computer Studies, 2002, 56, 569-596.   | 5.6 | 24        |
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| 131 | Anesthesia Alarms in Context: An Observational Study. Human Factors, 2001, 43, 66-78.  | 3.5 | 91        |
| 132 | Use of Cognitive Work Analysis Across the System Life Cycle: From Requirements to Decommissioning. Proceedings of the Human Factors and Ergonomics Society, 1999, 43, 318-322. | 0.3 | 33        |
| 133 | Exploring Sequential Data: Commentary on Bowers, Jentsch, Salas, and Braun (1998). Human Factors, 1998, 40, 680-684.   | 3.5 | 2         |
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| 136 | Exploratory sequential data analysis. ACM SIGCHI Bulletin, 1993, 25, 34-40.  | 0.1 | 9         |
| 137 | The complex role of perceptual organization in visual display design theory. Ergonomics, 1992, 35, 1199-1219.  | 2.1 | 19        |
| 138 | Cognitive task analysis of a complex work domain: a case study. Reliability Engineering and System Safety, 1992, 36, 207-216.  | 8.9 | 15        |
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| 147 | State-space and verbal protocol methods for studying the human operator in process control. Ergonomics, 1989, 32, 1343-1372.  | 2.1 | 48        |
| 148 | Verbalizable knowledge and skilled task performance: Association, dissociation, and mental models Journal of Experimental Psychology: Learning Memory and Cognition, 1989, 15, 729-747. | 0.9 | 108       |
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| 152 | Skills, Rules and Knowledge: A Discussion of Rasmussen's Classification. Proceedings of the Human Factors Society Annual Meeting, 1986, 30, 1002-1006.                                  | 0.1 | 2         |
| 153 | Spatial Complexity and Knowledge of Invisible Logical Networks. Proceedings of the Human Factors Society Annual Meeting, 1984, 28, 615-619.   | 0.1 | 0         |
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