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Appointments

- **Pennsylvania State University**, University Park, PA, USA, 09/2018 – Present.
Tenure-Track Assistant Professor.
- **Carnegie Mellon University**, Pittsburgh, PA, USA, 09/2013 – 08/2018.
Research Assistant, Advisor: Dr. Jeffrey P. Bigham.
- **Institute of Information Science, Academia Sinica**, Taipei, Taiwan, 01/2016 – 02/2016.
Visiting Scholar, Host: Dr. Lun-Wei Ku.
- **Microsoft Research**, Redmond, WA, USA, 05/2015 – 08/2015.
Research Intern, Host: Dr. Margaret Mitchell.
- **Carnegie Mellon University**, Pittsburgh, PA, USA, 09/2011 – 08/2013.
Research Assistant, Advisor: Dr. Teruko Mitamura.
- **National Taiwan University**, Taipei, Taiwan, 09/2006 – 06/2011.
Research Assistant, Advisor: Dr. Hsin-Hsi Chen.

Awards and Honors

- Outstanding Paper Award (Top 2.5%), IUI 2019
- Honourable Mention Award (Top 5%), CHI 2018
- Best Paper Honourable Mention Award (Top 5%), CHI LBW 2016
- Yahoo! Fellowship of the InMind project at CMU, 2014 – 2018
- Best Poster Award, LTI Student Research Symposium 2013

Education

- **Ph.D., Language and Information Technologies**
School of Computer Science, Carnegie Mellon University, 2013 – 2018
Advisor: Dr. Jeffrey P. Bigham.
- **M.S., Language and Information Technologies**
School of Computer Science, Carnegie Mellon University, 2011 – 2013
Advisor: Dr. Teruko Mitamura.
- **M.S., Computer Science**
The Graduate Institute of Networking and Multimedia, National Taiwan University, 2007 – 2009
Advisors: Dr. Hsin-Hsi Chen.
- **B.S., Computer Science & B.A., Chinese Literature (Double Major)**
Dept. Computer Science and Information Engineering, National Taiwan University, 2003 – 2007
Dept. Chinese Literature, National Taiwan University, 2003 – 2007

Peer-Reviewed Conference Papers

- [C.19] Hua Shen, **Ting-Hao K. Huang**. (2020). How Useful Are the Machine-Generated Interpretations to General Users? A Human Evaluation on Guessing the Incorrectly Predicted Labels. Proc. the 8th AAAI Conference on Human Computation and Crowdsourcing (**HCOMP 2020**), October 26 - 28, 2020, Hilversum, NL.
- [C.18] Chieh-Yang Huang, Shih-Hong Huang, **Ting-Hao K. Huang**. (2020). Heteroglossia: In-Situ Story Ideation with the Crowd. In Proceedings of Conference on Human Factors in Computing Systems 2020 (**CHI 2020**), April 25 - 30, 2020, Honolulu, Hawai'i, USA. (Acceptance Rate = 24.31%)
- [C.17] Chao-Chun Hsu, Zi-Yuan Chen, Chi-Yang Hsu, Chih-Chia Li, Tzu-Yuan Lin, **Ting-Hao K. Huang**, Lun-Wei Ku. (2020). Knowledge-Enriched Visual Storytelling. In Proceedings of the Thirty-Fourth AAAI Conference on Artificial Intelligence (**AAAI 2020**), February 7 - 12, 2020, New York, USA. (Acceptance Rate = 20.6%)
- [C.16] Ting-Yao Hsu, Chieh-Yang Huang, Yen-Chia Hsu, **Ting-Hao K. Huang**. (2019). Visual Story Post-Editing. In Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics (**ACL 2019**), July 28 - August 2, 2019, Florence, Italy. (Short Paper Acceptance Rate = 18.2%; Overall Acceptance Rate = 22.7%)
-  [C.15] Yen-Chia Hsu, Jennifer Cross, Paul Dille, Michael Tasota, Beatrice Dias, Randy Sargent, **Ting-Hao K. Huang**, Illah Nourbakhsh. (2019). Smell Pittsburgh: Community-Empowered Mobile Smell Reporting System. In Proceedings of the 24th annual meeting of the Intelligent User Interfaces (**IUI 2019**), March 17-20 2019, Los Angeles, USA. (Acceptance Rate = 25%)
[Outstanding Paper Award, Top 2.5% \(7 out of 282 submissions\)](#)
- [C.14] Sheng-Yeh Chen, Chao-Chun Hsu, Chuan-Chun Kuo, **Ting-Hao K. Huang**, Lun-Wei Ku. (2018). EmotionLines: An Emotion Corpus of Multi-Party Conversations. In Proceedings of the 11th edition of the Language Resources and Evaluation Conference (**LREC 2018**), 7-12 May 2018, Miyazaki, Japan.
-  [C.13] **Ting-Hao K. Huang**, Joseph Chee Chang, Jeffrey P. Bigham. (2018). Evorus: A Crowd-powered Conversational Assistant Built to Automate Itself Over Time. In Proceedings of Conference on Human Factors in Computing Systems 2018 (**CHI 2018**), 2018, Montréal, Canada. (Acceptance Rate = 25.8%)
[Honourable Mention Award, Top 5% \(101 out of 2500 submissions\)](#)
- [C.12] **Ting-Hao K. Huang**, Jeffrey P. Bigham. (2017). A 10-Month-Long Deployment Study of On-Demand Recruiting for Low-Latency Crowdsourcing. In Proceedings of The fifth AAAI Conference on Human Computation and Crowdsourcing (**HCOMP 2017**), 2017, Quebec City, Canada. (Acceptance Rate = 28.9%)
- [C.11] Saiganesh Swaminathan, Raymond Fok, Fanglin Chen, **Ting-Hao K. Huang**, Irene Lin, Rohan Jadvani, Walter S. Lasecki, Jeffrey P. Bigham. (2017). WearMail: On-the-Go Access to Information in Your Email with a Privacy-Preserving Human Computation Workflow. In Proceedings of 30th ACM Symposium on User Interface Software and Technology (**UIST 2017**), 2017, Quebec City, Canada. (Acceptance Rate = 22.5%)
- [C.10] **Ting-Hao K. Huang**, Yun-Nung Chen, Jeffrey P. Bigham. (2017). Real-time On-Demand Crowd-powered Entity Extraction. In Proceedings of the 5th Edition Of The Collective Intelligence Conference (**CI 2017**, oral presentation), 2017, New York University, NY, USA.
- [C.9] **Ting-Hao K. Huang**, Walter S. Lasecki, Amos Azaria, Jeffrey P. Bigham. (2016). "Is there anything else I can help you with?": Challenges in Deploying an On-Demand Crowd-Powered Conversational Agent. Conference on Human Computation & Crowdsourcing (**HCOMP 2016**), November, 2016, Austin, TX, USA. (Acceptance Rate = 30.3%).
- [C.8] **Ting-Hao K. Huang**, Francis Ferraro, Nasrin Mostafazadeh, Ishan Misra, Jacob Devlin, Aish-

- warya Agrawal, Ross Girshick, Xiaodong He, Pushmeet Kohli, Dhruv Batra, Larry Zitnick, Devi Parikh, Lucy Vanderwende, Michel Galley, Margaret Mitchell. (2016). Visual Storytelling. In *proc. the 15th Annual Conference of the North American Chapter of the Association for Computational Linguistics (NAACL 2016)*, June, 2016, San Diego, CA, USA. (Acceptance Rate = 29%).
- [C.7] **Ting-Hao K. Huang**, Walter S. Lasecki, Jeffrey P. Bigham. (2015). Guardian: A Crowd-Powered Spoken Dialog System for Web APIs. *Conference on Human Computation & Crowdsourcing (HCOMP 2015)*, November, 2015, San Diego, USA. (Acceptance Rate = 30%).
- [C.6] Francis Ferraro, Nasrin Mostafazadeh, **Ting-Hao K. Huang**, Lucy Vanderwende, Jacob Devlin, Michel Galley, Margaret Mitchell. (2015). A Survey of Current Datasets for Vision and Language Research. *Conference on Empirical Methods in Natural Language Processing (EMNLP 2015)*, September, 2015, Lisbon, Portugal. (Acceptance Rate = 24%, 312/1315).
- [C.5] Ho-Cheng Yu, **Ting-Hao K. Huang**, Hsin-Hsi Chen. (2012). Domain Dependent Word Polarity Analysis for Sentiment Classification. *Proceedings of the 24th ROCLING (ROCLING 2012) conference*.
- [C.4] Lun-Wei Ku, **Ting-Hao K. Huang**, Hsin-Hsi Chen. (2011). Predicting Opinion Dependency Relations for Opinion Analysis. *Proceeding of IJCNLP (IJCNLP 2011)*. (Acceptance Rate = 36%)
- [C.3] **Ting-Hao K. Huang**, Lun-Wei Ku, Hsin-Hsi Chen. (2010). Predicting Morphological Types of Chinese Bi-Character Words by Machine Learning Approaches. *Proceedings of LREC (LREC 2010)*, Malta, pp. 844–850.
- [C.2] Lun-Wei Ku, **Ting-Hao K. Huang**, and Hsin-Hsi Chen. (2010). Construction of a Chinese Opinion Treebank. *Proceeding of LREC (LREC 2010)*, Malta, pp. 1315–1319.
- [C.1] Lun-Wei Ku, **Ting-Hao K. Huang**, and Hsin-Hsi Chen. (2009). Using Morphological and Syntactic Structures for Chinese Opinion Analysis. *Proceedings of EMNLP (EMNLP 2009)*, Singapore, pp. 1260–1269. (Acceptance Rate = 34%)

Peer-Reviewed Journal Articles

- [J.4] Yen-Chia Hsu, Jennifer Cross, Paul Dille, Michael Tasota, Beatrice Dias, Randy Sargent, **Ting-Hao K. Huang**, Illah Nourbakhsh. Smell Pittsburgh: Engaging Community Citizen Science for Air Quality. *ACM Transactions on Interactive Intelligent Systems (TIIS)*. (Accepted on March 2020)
- [J.3] **Ting-Hao K. Huang**, Amos Azaria, Oscar Romero, Jeffrey P. Bigham. InstructableCrowd: Creating IF-THEN Rules for Smartphones via Conversations with the Crowd. *Human Computation* (2019) 6:1:113–146. ISSN: 2330-8001, DOI: 10.15346/hc.v6i1.7. (Published)
- [J.2] **Ting-Hao K. Huang**: Social Metaphor Detection via Topical Analysis. *International Journal of Computational Linguistics and Chinese Language Processing (IJCLCLP)*, 19(2) (2014). (Published)
- [J.1] Ho-Cheng Yu, **Ting-Hao K. Huang**, and Hsin-Hsi Chen. (2012). Domain Dependent Word Polarity Analysis for Sentiment Classification. *International Journal of Computational Linguistics and Chinese Language Processing (IJCLCLP)*, 17(3-4): Special Issue on ROCLING 2012. (Published)

Position Papers

- [P.3] Yun-Nung V. Chen, **Ting-Hao K. Huang**. (2020). Gaps Between “Talking Machines” and Modern Dialogue System Research. Position paper in the Workshop on Artificial Intelligence for HCI: A Modern Approach (**AI4HCI 2020**). April 25, 2020. Honolulu, Hawaii, USA.
- [P.2] **Ting-Hao K. Huang**. (2019). On Automating Conversations. Invited position paper in the Artificial Intelligence and Work: AAAI 2019 Fall Symposium (**AAAI FSS 2019**). November 7-9, 2019.

Arlington, VA, USA.

- [P.1] Patricia Simon, Suchitra Krishnan-Sarin, **Ting-Hao K. Huang**. (2019). On Using Chatbots to Promote Smoking Cessation Among Adolescents of Low Socioeconomic Status. Selected for round-table discussion in the Artificial Intelligence and Work: AAAI 2019 Fall Symposium (**AAAI FSS 2019**). November 7-9, 2019. Arlington, VA, USA.

Workshop, Symposia, and Consortia Papers


- [W.5] Saiganesh Swaminathan, **Ting-Hao K. Huang**, Irene Lin, Anhong Guo, Gierad Laput, and Jeffrey P. Bigham. (2017). Epistemo: A Crowd-Powered Conversational Search Interface. In the Talking with Conversational Agents in Collaborative Action Workshop at the 20th ACM conference on Computer-Supported Cooperative Work and Social Computing.
- [W.4] Chieh-Yang Huang, **Ting-Hao K. Huang**, Lun-Wei Ku. (2017). Challenges in Providing Automatic Affective Feedback in Instant Messaging Applications. In the Designing the User Experience of Machine Learning Systems symposium (**AAAI 2017 Spring Symposium Series**), March 27-29, 2017, Palo Alto, USA.
- [W.3] **Ting-Hao K. Huang**. Crowd-Powered Conversational Agents. Doctoral Consortium of Conference on Human Computation & Crowdsourcing (**HCOMP DC 2016**), 2016, Austin, TX, USA.
-  [W.2] **Ting-Hao K. Huang**, Yun-Nung Chen, Lingpeng Kong. (2015). ACBiMA: Advanced Chinese Bi-Character Word Morphological Analyzer. The 8th SIGHAN Workshop on Chinese Language Processing (**SIGHAN 2015**), July 30-31, 2015, Beijing, China. (Acceptance Rate = 29%).
[Best Poster Award of LTI Student Research Symposium 2013](#)
- [W.1] **Ting-Hao K. Huang**. (2013). Social Metaphor Detection via Topical Analysis. IJCNLP 2013 Workshop on Natural Language Processing for Social Media (**SocialNLP 2013**), pages 14–22, Nagoya, Japan, 14 October 2013. (Acceptance Rate = 35%).

Demos

- [D.4] Chao-Chun Hsu, Yu-Hua Chen, Zi-Yuan Chen, Hsin-Yu Lin, **Ting-Hao K. Huang**, and Lun-Wei Ku. Dixit: Interactive Visual Storytelling via Term Manipulation. In the Demo track of The Web Conference 2019 (**TheWebConf Demo 2019**).
- [D.3] Chieh-Yang Huang, Tristan Labetoulle, **Ting-Hao K. Huang**, Yi-Pei Chen, Hung-Chen Chen, Vallari Srivastava, and Lun-Wei Ku. MoodSwipe: A Soft Keyboard that Suggests Messages Based on User-Specified Emotions. In the Demo track of the Conference on Empirical Methods in Natural Language Processing 2017 (**EMNLP Demo 2017**), Sep, 2017, Copenhagen, Denmark.
- [D.2] Shih-Ming Wang, Chun-Hui Li, Yu-Chun Lo, **Ting-Hao K. Huang**, Lun-Wei Ku. (2016). Sensing Emotions in Text Messages: An Application and Deployment Study of EmotionPush. In the demo track of the 26th International Conference on Computational Linguistics (**COLING Demo 2016**), Dec, 2016, Osaka, Japan.
- [D.1] **Ting-Hao K. Huang**, Ho-Cheng Yu and Hsin-Hsi Chen. (2012). Modeling Pollyanna Phenomena in Chinese Sentiment Analysis. In the demo track of the COLING 2012 (**COLING Demo 2012**).

Posters and Extended Abstracts

- [A.5] Ting-Yao Hsu, Yen-Chia Hsu, **Ting-Hao K. Huang**. On How Users Edit Computer-Generated Visual Stories. In CHI'19 Late-Breaking Work on Human Factors in Computing Systems (**CHI LBW 2019**), 2019.

- [A.4] Jeffrey P. Bigham, Raja Kushalnagar, **Ting-Hao K. Huang**, Juan Pablo Flores and Saiph Savage. On How Deaf People Might Use Speech to Control Devices. In the Poster track ASSETS 2017 (**ASSETS Poster 2017**), October, 2017. Baltimore, Maryland.
- [A.3] **Ting-Hao K. Huang**, Joseph Chee Chang, Saiganesh Swaminathan, Jeffrey P. Bigham. Evorus: A Crowd-powered Conversational Assistant That Automates Itself Over Time. In the Poster track of the 20th ACM Symposium on User Interface Software and Technology (**UIST Poster 2017**), October, 2017. Quebec City, Canada.
-  [A.2] **Ting-Hao K. Huang**, Amos Azaria, Jeffrey P. Bigham. (2016). InstructableCrowd: Creating IF-THEN Rules via Conversations with the Crowd. In CHI '16 Late-Breaking Work on Human Factors in Computing Systems (**CHI LBW 2016**), May, 2016, San Jose, CA, USA.
[Best Paper Honorable Mention Award, Top 5% \(14 out of 281\)](#)
- [A.1] **Ting-Hao K. Huang**, Walter S. Lasecki, Alan L. Ritter, Jeffrey P. Bigham. (2014). Combining Non-Expert and Expert Crowd Work to Convert Web APIs to Dialog Systems. Work-in-Progress paper in the Proceeding of Conference on Human Computation and Crowdsourcing (**HCOMP WIP 2014**), November 2-4, 2014, Pittsburgh, USA.

Theses

- [T.2] **Ting-Hao K. Huang**. (2018). A Crowd-Powered Conversational Assistant That Automates Itself Over Time. PhD Dissertation, Language Technologies Institute, Carnegie Mellon University, Pittsburgh, PA, USA. 2018.
- [T.1] **Ting-Hao K. Huang**. (2009). Automatic Extraction of Intra- and Inter- word Syntactic Structures for Chinese Opinion Analysis (應用於中文意見分析之詞內暨詞間語法結構自動擷取研究). Master thesis, Graduate Institute of Networking and Multimedia (GINM), National Taiwan University, Taipei.

Grants and Other Support

- [G.5] **Annotating COVID-19 Papers Rapidly Using Non-Expert Crowd**
College of IST COVID-19 Seed Fund
Principal Investigator, Spring 2020. (\$17,000)
Co-PI: Dr. C. Lee Giles
- [G.4] **Annotating COVID-19 Papers Rapidly Using Non-Expert Crowd**
Huck Institutes of the Life Sciences' Coronavirus Research Seed Fund (CRSF)
Principal Investigator, Spring 2020. (\$30,000)
Co-PI: Dr. C. Lee Giles
- [G.3] **Neural Caption Generation for Scientific Figures**
2020 - 2021 College of Information Sciences and Technology Seed Grant
Principal Investigator, Spring 2020. (\$51,000)
Co-PI: Dr. C. Lee Giles
- [G.2] **Visual Storytelling: Generation, Post-Editing, and Applications**
2019 - 2020 College of Information Sciences and Technology Seed Grant
Principal Investigator, Spring 2019. (\$51,000)
- [G.1] **Regional Differences in Opinions Toward Climate Change Among Twitter Users**
PSU Twitter Data for Social Science Research Seed Grants (Level-2)
Principal Investigator, March 2019. (\$20,000)
Co-PI: Dr. John Yen and Dr. Guangqing Chi

Professional Activity

- Organizer, **Workshop on Storytelling** 2018 (co-located with NAACL-HLT), 2019 (co-located with ACL).
- Organizer, **Visual Storytelling Challenge** at ICCV17's 2nd workshop on Closing the Loop Between Vision and Language, Venice, Italy.
- Conference Paper Reviewer / PC Member: CHI 2017/2018/2019/2020, CSCW 2018/2019/2020, IMWUT (2017 Feb Round), UIST 2018/2019, TheWebConf 2019/2020
- Workshop Reviewer / PC Member: CHI LBW 2018, SocialNLP 2016, user2agent 2019

Selected Invited Talks

- *Crowd-AI Systems that Support Story Writing*, at the Institute of Information Science (IIS), **Academia Sinica, Taiwan**, Dec 30, 2019.
- *On Automating Conversations*, as an invited panelist in the Artificial Intelligence and Work: AAAI 2019 Fall Symposium (**AAAI FSS 2019**). November 7-9, 2019. Arlington, VA, USA.
- *Crowdsourcing and Crowd-AI Systems*, at the **National Center for High-Performance Computing**, Taiwan, Dec 19, 2019.
- *Crowd Research: Data, Workflows, and Crowd-AI Systems*, at the **"Information Retrieval meets Artificial Intelligence" Workshop**, Taipei, Taiwan, Dec 12, 2018.
- *Crowd Research: Labels, Workflows, and Crowd-Powered Systems*, at the IEEE/IBM Watson Talk Series of **West Virginia University**, Nov 13, 2017.
- *Crowd Research: Labels, Workflows, and Crowd-Powered Systems*, at the Department of Computer Science and Information Engineering (CSIE), **National Taiwan University**, Sep 29, 2017.
- *Crowd Research: Labels, Workflows, and Crowd-Powered Systems*, at the Institute of Information Science (IIS), **Academia Sinica, Taiwan**, Sep 26, 2017.
- *Real-time Crowd-powered Slot Filling in Dialogue Systems*, at the Sphinx Lunch Talk Series of **Carnegie Mellon University**, Apr 2, 2015.
- *Crowd-powered Dialogue Systems*, at the Institute of Information Science (IIS), **Academia Sinica, Taiwan**, Aug 20, 2015.

Media Coverage

- WTAE TV News. Janelle Hall. (2018, Feb 8).
Meet the "Chorus" chatbot: Unlike Alexa or Siri, it's powered by actual people on the other end.
<http://www.wtae.com/article/chorus-chatbot-carnegie-mellon-university-pittsburgh/16870459>
- TribLive. Aaron Aupperlee. (2018, Feb 8).
Chatbot developed at Carnegie Mellon uses humans to answer questions AIs can't.
<http://triblive.com/business/technology/13275597-74/chatbot-developed-at-carnegie-mellon-uses-humans-to-answer-questions-ais-cant>
- presstext. (2018, Feb 8).
KI-System "Evorus" wird zunehmend eigenständig: Von Menschen lernendes System beantwortet immer komplexere Fragen.
<https://www.presstext.com/#news/20180208014>
- CMU SCS News. Byron Spice. (2018, Feb 7).
Crowd Workers, AI Make Conversational Agents Smarter.
<https://www.cs.cmu.edu/news/crowd-workers-ai-make-conversational-agents-smarter>

- EurekaAlert!. (2018, Feb 7).
Crowd workers, AI make conversational agents smarter: Human/machine hybrid system can answer wide array of questions.
https://www.eurekaalert.org/pub_releases/2018-02/cmu-cwa020618.php
- The Register. Thomas Claburn. (2017, Aug 14).
Dismayed by woeful AI chatbots, boffins hired real people – and went back to square one.
https://www.theregister.co.uk/2017/08/14/chat_bots_work_better_with_people/
- The Stack. Martin Anderson. (2016, April 14).
Microsoft releases data-set for ‘emotional’ automated captioning.
<https://thestack.com/cloud/2016/04/14/microsoft-sind-dataset-captioning-narrative/>
- Microsoft Official Blog. Linn, Allison. (2016, April 14).
Teaching computers to describe images as people would.
<http://blogs.microsoft.com/next/2016/04/14/teaching-computers-to-describe-images-as-people-would/>
- VentureBeat. Novet, Jordan. (2016, April 14).
Microsoft researchers are teaching AI to write stories about groups of photos.
<http://venturebeat.com/2016/04/14/microsoft-ai-visual-storytelling/>
- WIRED AWAKE (2016, April 15).
WIRED Awake: 10 must-read articles for 15 April. WIRED.CO.UK.
<http://www.wired.co.uk/news/archive/2016-04/15/wired-awake-15-april>
- MIT Technology Review (2016, April 27).
Will Artificial Intelligence Win the Caption Contest?.
<https://www.technologyreview.com/s/601339/will-artificial-intelligence-win-the-caption-contest/#/set/id/601340/>

Honors as a Writer

- Invited member of “Mystery Writers of Taiwan”, 2010 – Present
- Mystery Fiction Award, by “Mystery Writers of Taiwan”, 2010
Short Story: “The Maiden’s Prayer”
- First Prize of “Taipei The Less” Essay Competition, 2005
Flash Fiction: “Genesis in Taipei.”

References

- **Jeffrey P. Bigham**
Associate Professor, Human-Computer Interaction Institute, Carnegie Mellon University, USA.
jbigham@cs.cmu.edu
- **Chris Callison-Burch**
Associate Professor, Computer and Information Science Department, University of Pennsylvania, USA.
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- **Alexander I. Rudnicky**
Research Professor, Computer Science Department, Carnegie Mellon University, USA.
air@cs.cmu.edu
- **Margaret Mitchell**
Senior Research Scientist, Google Research, USA.
margarmitchell@gmail.com

- **Lun-Wei Ku**

Associate Research Fellow, Institute of Information Science, Academia Sinica, Taiwan.
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- **Hsin-Hsi Chen**

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