## 10. d3.js and explanatory approad stream Continues and Sunday Times

Suates Munimum, news neperopei as 1115 111150 and cuite Minimum
Acknowledgements the Abramia series of Chaclademic texts treate vii
ection 3. Data fournatism: The broader issues 2 focally, nationally and
The editors
ichard Lance Keeble
Section 1. What precisely is data journalism?
John Mair  The Manual Sentence of the University of Central London Sentence of the University of the U
1. Learning in progress: From computer-assisted reporting to data journalism,
reedom of information, open data and more
Jonathan Hewett, Director of Interactive and Newspaper Journalism at City University
beat Improvement at Windows University Centry, sandwall of the control of the con
a good success rate. Commissioning and chivvying works. We also nee
2. Why data journalism is the new punk and wolf special secrets revealed.
Simon Rogers, Data Editor at Twitter in San Francisco, former Data Editor at the and asset
Guardian Pete Frankistsadiro Choude Sakua Hannod Tandushnikinhunka Lendt 15
3. How does that affect me? Making data personally relevant for your audience
Bella Hurrell, Assistant Editor of the BBC News Visual Journalism team, and John
Walton, editorial lead of the Visual Journalism data team
are the real heroes.
4. In a decade or less, could not all reporters be required to be data literate?
Teodora Beleaga, digital analyst at Edelman 26
From Eddies decharte in Joinnahism and Islam Wellinest Abel University of Limerick,
Section 2: Tips from the experts on developing data journalism skills
Richard Lance Keehle
AND THE PARTY OF T
5. Data journalism workflow: Confronting the myths
Paul Bradshaw, Visiting Professor at City University London 37
17. Data journalism in China: A comparative perspective
6. A beginner's guide to data journalism and data mining/scraping  Nicola Hughes, programmer-journalist at The Times  43
Nicola Hughes, programmer-journalist at The Times
7. Data visualisation: Now for the science
Jacqui Taylor trains advanced analysts on the science of data visualization 51
dimini ugol
8. Sources and tools for data journalism a sources and tools for data journalism a sources and tools for data journalism a source and tools for data journalism and t
Daniel Ionescu, Editor of the Lincolnite news website
D. Using transport data for public information I moorewan and guideline of
Pupul Chatterjee, Brum Transport (www.brumtransport.com) 69
69

10. d3.js and explanatory approaches to interactive data visualisation Ændrew Rininsland, news developer at The Times and Sunday Times	79
edgements	Acknowl
internationally	The edito
Richard Lance Keeble	89
11. Making data journalism real  Andy Dickinson, Senior Lecturer at the University of Central Lancashire	Section 1
12. Hacks, hacking and the NSA: Encryption for working journalists Gabriel Keeble-Gagnère, Senior Informatics Analyst for the Australia-China Cent Wheat Improvement at Murdoch University, Perth, Australia	tre for 99
was nanded	rnalists
Arthur Lashmar, student at Thomas Hardye School, Dorchester	109
14. Hyperlocal media and data journalism  Damian Radcliffe, Honorary Research Fellow at the Cardiff School of Journalism,  Cultural Studies	Media and
15 Old reporting, new methods: How data journalism is keeping an eye government  Tom Felle, lecturer in Journalism and New Media at the University of Limerick,	Teodora Be
Ireland Treland	133
oliner management senting by the management senting and senting senting of the senting	RichardL
16 The advent of the statistician journalist John Burn-Murdoch, a data journalist on the Financial Times's interactive news de	esk 149
ham, Visiting Projessor at City University London 37	
17. Data journalism in China: A comparative perspective Yaneng Feng and Qian Li, postgraduate students of the School of Journalism of Communication University of China	6. A begin
Section 4: Data journalism and journalism education  John Mair	7. Data vi
18. Journalism ethics through accuracy in numbers Chris Frost, Head of Journalism at Liverpool John Moores University	8. Sources 601 iel Ione
19. Recalculating the newsroom: The rise of the journo-coder?  Liz Hannaford teaches journalism to undergraduates and postgraduates at the Un Salford	iversity of 175