

Navigating Stories

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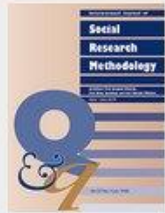
POST-CORONA FUTURES PROJECT

This project groups three studies on the way we deal with the future in corona times.
Project leaders: [Anneke Sools](#) ([Psychology, Health and Technology Section](#); [Story Lab](#)) and [Yashar Saghai](#) ([Philosophy Section](#); [the Millennium Project: Global Futures Studies and Research](#))

Study 1: “Will the Future Never be the Same? Letters from a Post-Corona Future”

The current corona virus outbreak has affected our health systems, daily routines, social relationships, livelihoods, the global economic system in ways we never imagined possible. This shows that far-reaching changes, whether negative or positive, are possible. How do we imagine in these circumstances a *desirable* future after the corona outbreak, rather than the most likely or dreadful future? Our study investigates how a global, disruptive event can impact our perception of what is possible and what is desirable, and the way we make sense of the world (community, society, humanity, the planet) and ourselves.

We do this by inviting participants to write a *letter from a future after the corona crisis* and to respond to questions about their vision of the future. The questions are aimed at understanding how we perceive the future and what we consider desirable. The questions are aimed at understanding how we perceive the future and what we consider desirable.

**International Journal of Social Research Methodology** >

Volume 23, 2020 - Issue 4: Narrative Sense-Making and Prospective Social Action

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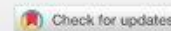


Articles

Digital story grammar: a quantitative methodology for narrative analysis

Stefan Bastholm Andrade  & Ditte Andersen 

Pages 405-421 | Received 01 Mar 2019, Accepted 29 Nov 2019, Published online: 19 Feb 2020

 Download citation  <https://doi.org/10.1080/13645579.2020.1723205>[Full Article](#)[Figures & data](#)[References](#)[Citations](#)[Metrics](#)[Reprints & Permissions](#)[PDF](#)[EPUB](#)**In this article**[ABSTRACT](#)[Introduction](#)[Digital story grammar: from text to narrative](#)

ABSTRACT

Digital story grammar (DSG) is a methodology that combines narrative theory and computerised text analysis. The methodology offers new ways of identifying patterns in narrative identity work and examining how these patterns relate to social structures such as gender and social class. DSG works

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Navigating Stories in Time of Transition



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Kevin Pijpers (University of Twente, postdoc)

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Erik Tjong Kim Sang (eScience Center, Amsterdam)

+ 10 other people



Goal: advance field of story analysis

Develop and integrate digital tools for:

- Storing and selecting relevant stories (related to the pandemic)
- Preprocessing stories and performing natural language processing
- Automatically determining story structures
- Providing visual analysis, of single stories and of story collections

The project builds on the results obtained by our previous eScience project What Works When for Whom? (2015-2020)

Previous work: Digital Story Grammar

Stefan Bastholm Andrade developed Digital Story Grammar, a computer-assisted method for analyzing English texts

Example story: *Well I got all my exams. I had to retake one, English, and I got it the second time.*

Base analysis:

Phrase	Subject	Verb group	Object
1	I	get	exam
2	I	have to retake	one
3	I	get	it

This analysis is similar to semantic role labeling

Risk of using semantic role labeling

We use Stroll, a semantic role labeling library for Dutch, which has an accuracy of 77%: <https://github.com/Filter-Bubble/stroll>

Having software with such a low performance in an analysis tool has the risk of the users refusing to use it

Additional to automatically analyzing texts, we will need to give users the opportunity to correct obvious mistakes of the system



Computer-Assisted Qualitative Data Analysis Software

Software for qualitative analysis of text collections including annotation.

We evaluated 44 different packages, according to 18 requirements:

	UT-PHT			Functional					Technical										score
	1	2	3	1	2	3	4	5	1	2	3	4	5	6	7	8	9	10	
Atlas.ti (A.4)	+	+	+	+	-	-	+	-	+	+	.	+	.	+	+	.	+	+	12
NVivo (A.27)	+	+	+	+	+	-	-	-	+	+	.	+	+	.	+	.	+	+	12
QualCoder (A.34)	.	.	.	+	+	+	.	+	.	+	-	+	-	+	+	+	+	+	11
GATE (A.18)	.	.	.	+	+	+	-	+	+	-	-	+	+	-	+	+	-	+	10
Aquad (A.2)	.	.	.	+	-	+	-	-	+	+	-	+	-	+	+	+	-	+	9
ASReview (A.3)	.	.	.	+	+	-	-	+	+	+	+	-	-	-	+	-	+	+	9
Dovetail (A.14)	.	.	.	+	-	-	.	-	+	+	.	+	.	+	+	+	+	+	9
HyperRESEARCH (A.19)	.	.	.	+	-	-	.	-	+	+	-	+	+	+	+	.	+	+	9
KH Coder (A.21)	-	-	-	+	+	+	.	+	.	.	+	.	+	.	+	.	+	+	9
MAXQDA (A.25)	.	.	.	+	-	-	.	-	+	+	-	+	-	+	+	+	+	+	9
QDA Miner (A.31)	.	.	.	+	-	-	.	-	+	+	-	+	-	+	+	+	+	+	9
Dedoose (A.10)	.	.	.	+	-	-	.	-	+	+	-	+	-	+	+	.	+	+	8
DiscoverText (A.12)	.	.	.	+	-	-	.	-	+	.	.	+	.	+	+	+	+	+	8
Quirkos (A.36)	.	.	.	+	-	-	.	-	.	+	-	+	-	+	+	+	+	+	8



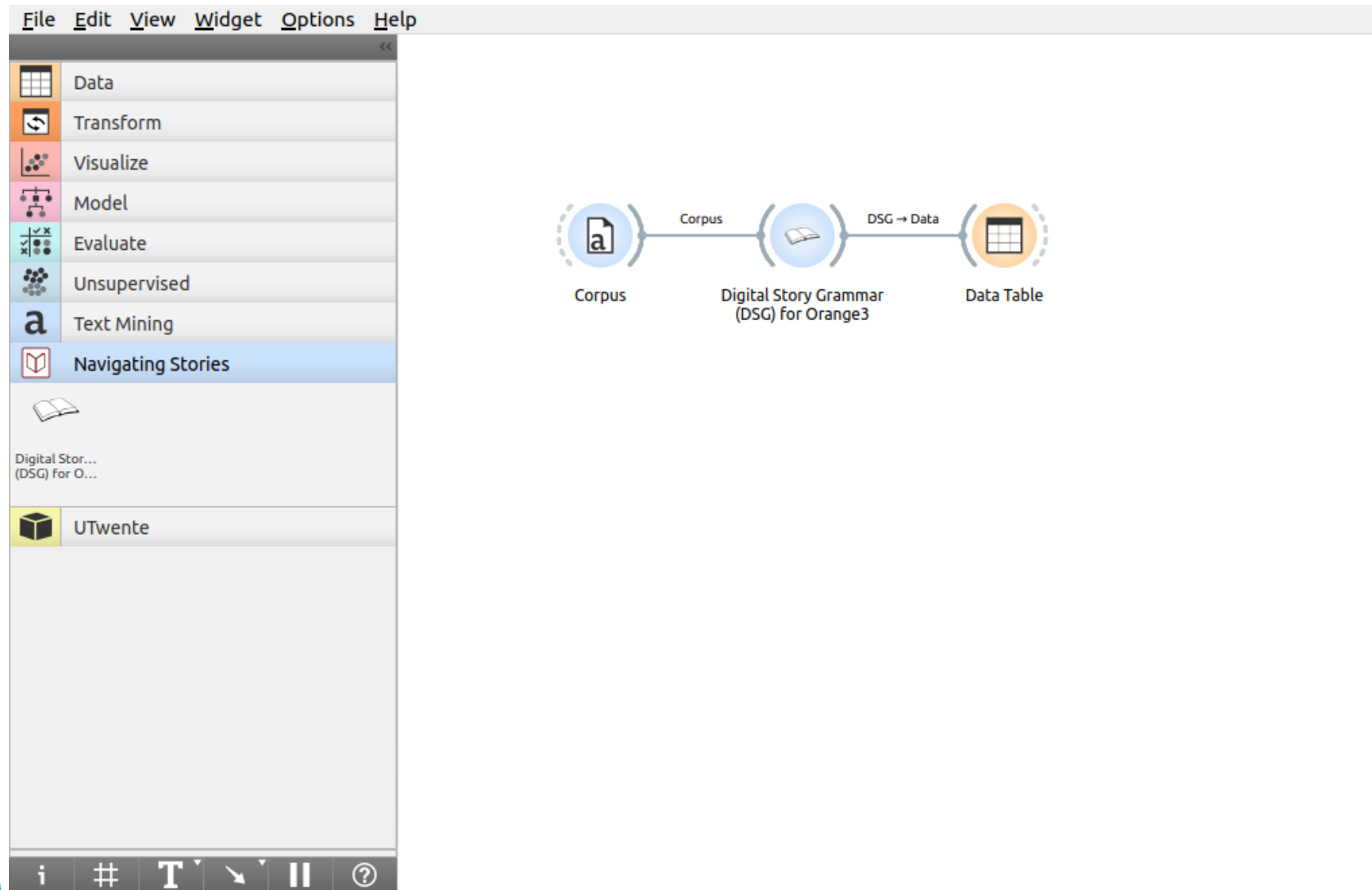
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Orange Data Mining

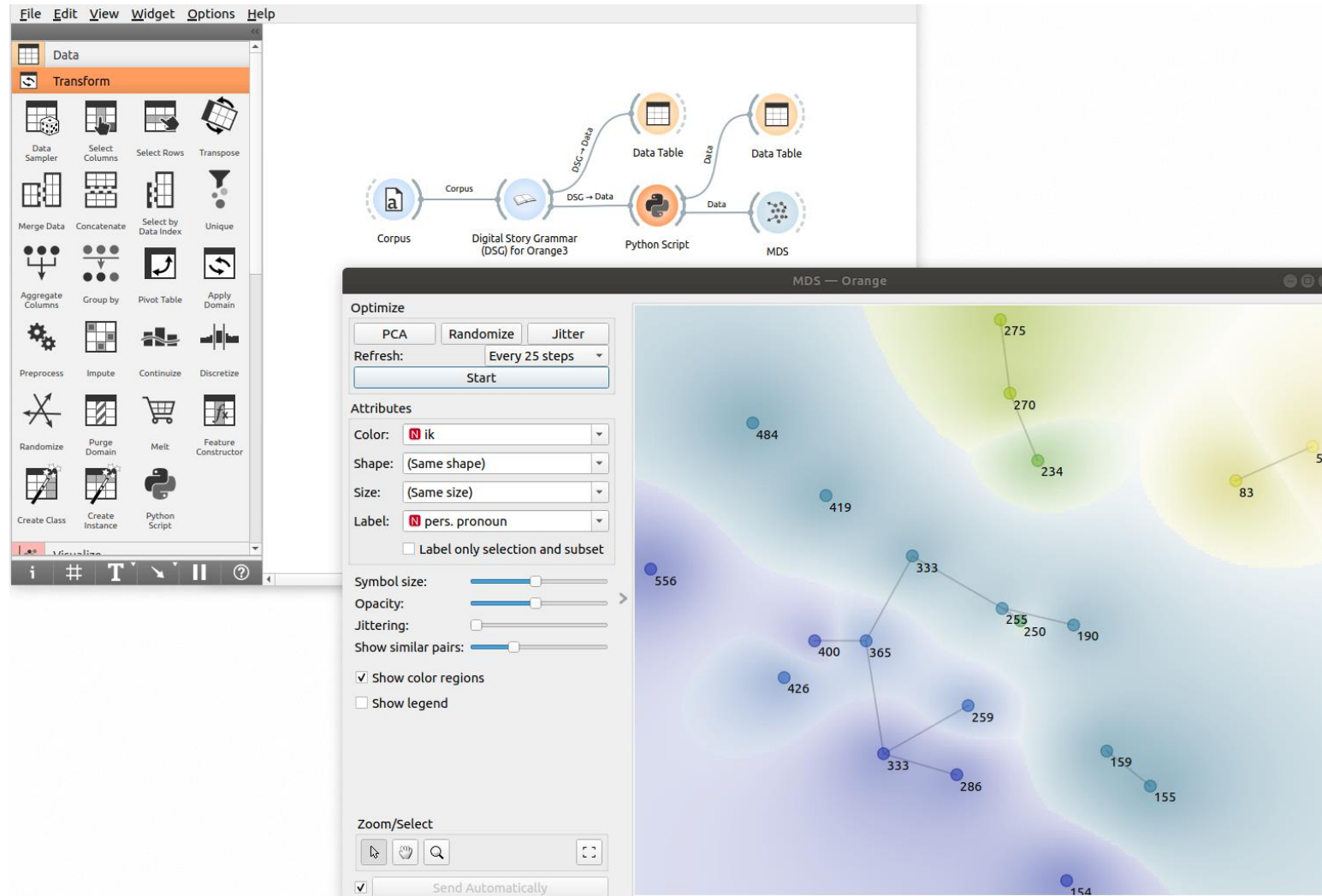
[Orange](#) is a data mining and visualization toolbox for novice and expert alike. To explore data with Orange, one requires **no programming or in-depth mathematical knowledge**. We believe that workflow-based data science tools democratize data science by hiding complex underlying mechanics and exposing intuitive concepts. Anyone who owns data, or is motivated to peek into data, should have the means to do so.



Example Orange pipeline



Example Orange story analysis



Concluding remarks

We are building a tool for analyzing the narrative structure of stories using Digital Story Grammar, among others with semantic role labeling

The tool is available as a part of Orange, an extensible open source data mining environment with a nice graphical interface



Future work

- Collect feedback on the tool from users (researchers and students)
- Create an Orange module for manual correction of data labels
- Create an Orange module for story-level analysis
- Adapt the new Orange modules for insertion in other CAQDAS packages (Atlas.ti/NVivo/MAXQDA)



More information

- Home page of the project: <https://navigating-stories.github.io/>
- Code: <https://github.com/navigating-stories/test-orange-widget>
- Email: e.tjongkimsang@esciencecenter.nl
- Post-Corona Futures: <https://www.utwente.nl/toekomstbrieven>
- Email: a.m.sools@utwente.nl
- Dutch SRL code: <https://github.com/Filter-Bubble/stroll>

