

Creating a graphical user interface for the Reproducible Open Coding Kit (ROCK)



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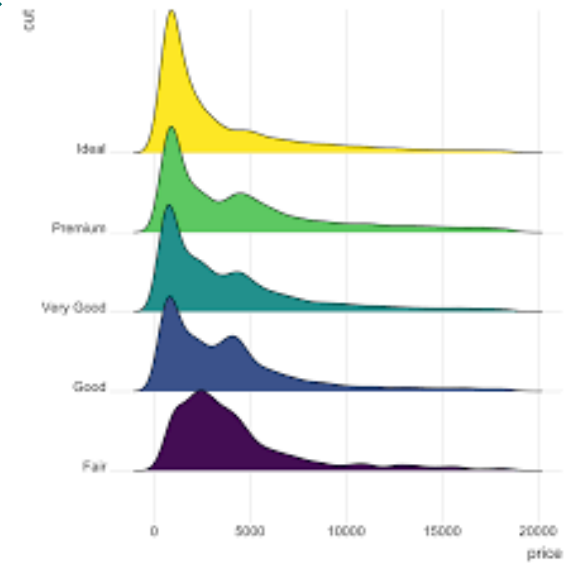
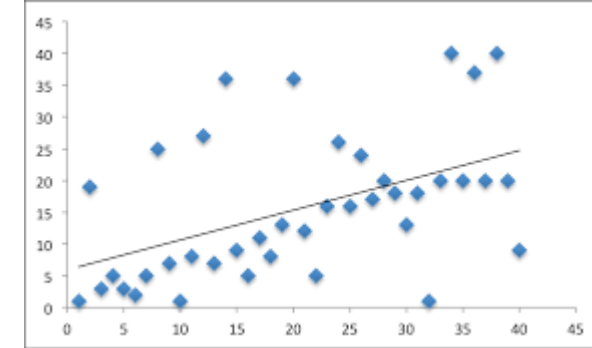


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Open University, Netherlands
Department of Theory, Methods & Statistics
Faculty of Psychology

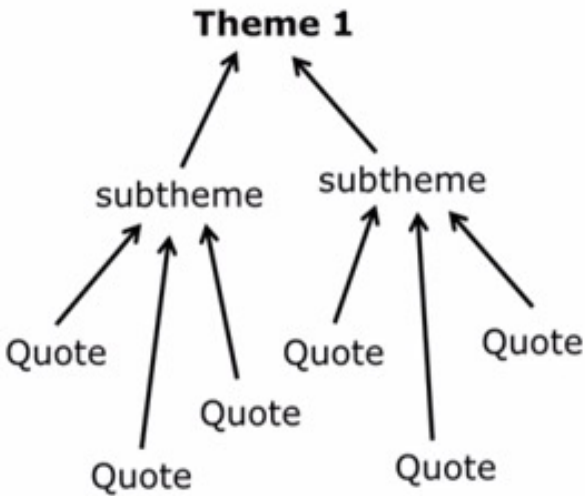
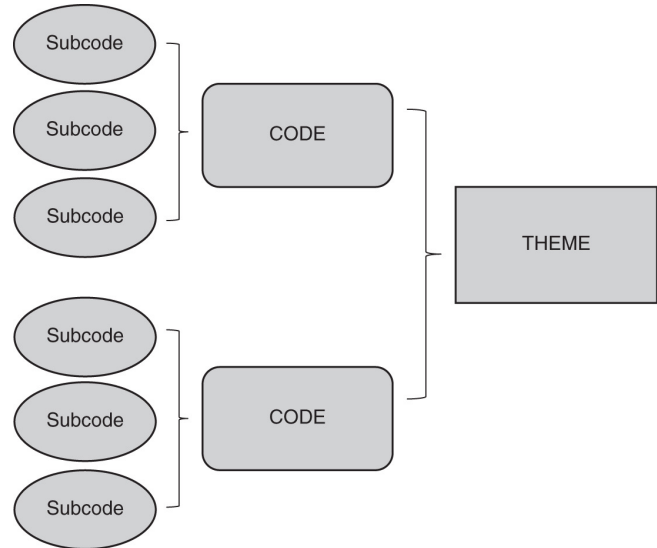
	A	B	C	D	E	F	G
1	ID	Age	Gender	District	SATV	SATM	GPA
2	54419	18	M	38	368	253	3.52
3	62516	22	M	5	670	496	1.11
4	55509	21	F	54	639	439	2.68
5	36489	19	M	49	368	465	3.11
6	36387	21	F	36	620	306	2.16
7	95507	20	F	13	512	593	2.83
8	16360	20	M	52	621	377	2.79
9	12838	18	F	44	571	544	2.13
10	73450	20	F	59	647	746	2.08
11	26869	18	F	28	337	371	2.28
12	48552	22	M	63	260	498	3.24
13	23416	19	M	51	476	294	2.31
14	42635	19	F	35	677	241	3.19
15	67448	19	F	55	335	533	1.81
16	34689	21	F	42	585	708	1.80
17	32763	22	F	20	556	787	1.18



Quantitative research

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Praesent commodo odio nec porttitor mattis. In vel leo id lorem ullamcorper dapibus. Ut vulputate at ex et ultrices. Duis elementum urna metus, vel vulputate lorem rutrum vitae. Morbi non convallis tortor. Proin et mi ut quam euismod molestie.

Maecenas sapien nulla, commodo sit amet nisl non, accumsan ornare nibh. Cras tincidunt in erat nec scelerisque. Morbi in varius urna. Vivamus sodales ultrices consectetur. Nulla lobortis nibh vitae gravida porta. Sed in purus eu urna commodo aliquam sed vitae ipsum. Suspendisse faucibus venenatis fringilla.



Qualitative research



Human- and machine-readable standard
Implemented in the R package `{rock}`

Inclusivity
Transparency
Interoperability

```

1 ---
2 ROCK_attributes:
3 -
4   caseId: 1
5   region: urban
6   age: 60s
7 -
8   caseId: 2
9   region: rural
10  age: 20s
11 ---
12 [[uid=7ghf8013]]
13 [[uid=7ghf8014]] [[cid=1]]
14 [[uid=7ghf8015]]
15 [[uid=7ghf8016]] Lorem ipsum dolor sit amet, consectetur adipiscing elit.
16 [[uid=7ghf8017]] Nam a rutrum turpis. [[parentCode>childCode]]
17 [[uid=7ghf8018]] ~Interdum et ac ante ipsum primis in faucibus. [[justAcode]]
18 [[uid=7ghf8019]] Nullam lorem elementum laoreet a nec justo. [[valueCode||87]]
19 [[uid=7ghf801b]] --- <<paragraph_break>> ---
20 [[uid=7ghf801c]] Vestibulum quis nibh eget ante ultrices auctor ut vitae tortor.
21 [[uid=7ghf801d]] ~Phasellus odio dui, molestie nec tellus eget. [[childCode]]
22 [[uid=7ghf801f]] ~Praesent ac neque sit amet neque vehicula euismod.
23 [[uid=7ghf801g]] ~Proin ullamcorper, sed rhoncus dignissim. [[valueCode||2]]
24 [[uid=7ghf801h]] ~Aliquam erat volutpat. [[childCode>grandChildCode]]
25 [[uid=7ghf801j]] --- <<paragraph_break>> ---
26 [[uid=7ghf801k]] Maecenas in massa quis tellus viverra consequat.
27 [[uid=7ghf801l]] ~Vestibulum ante ipsum primis in faucibus orci.
28 [[uid=7ghf801m]] ~Vivamus ut sapien leo. [[childCode>grandChildCode2]]
29 [[uid=7ghf801n]]

```

Attributes listed in YAML

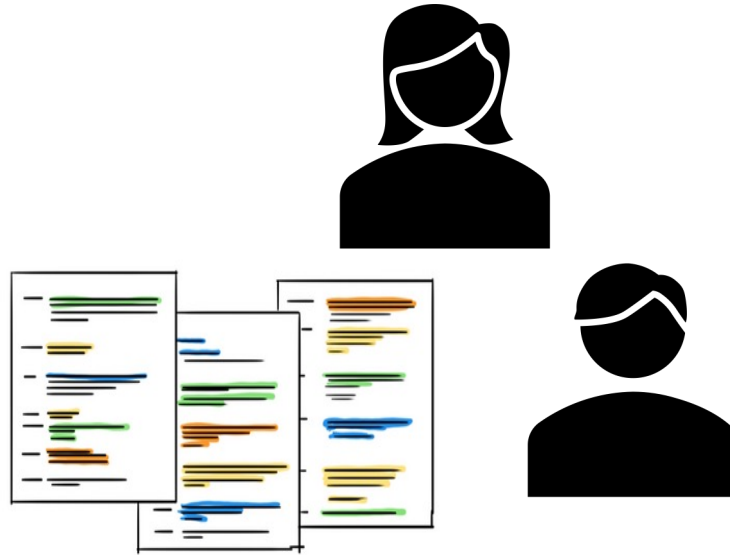
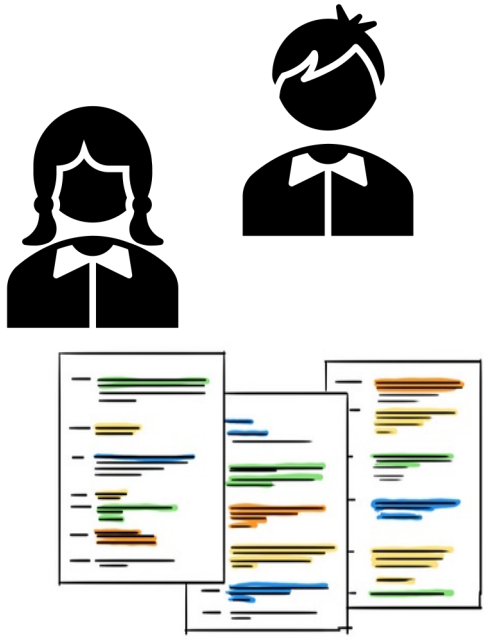
Class instance identifier:
Unique id for e.g. participant, location, time, etc

Utterance
identifier

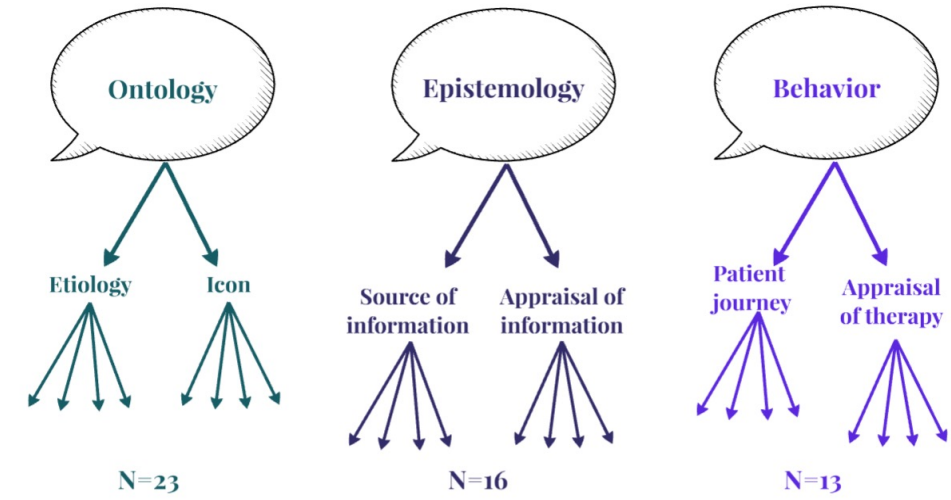
Section break
(segmentation)

Simple code

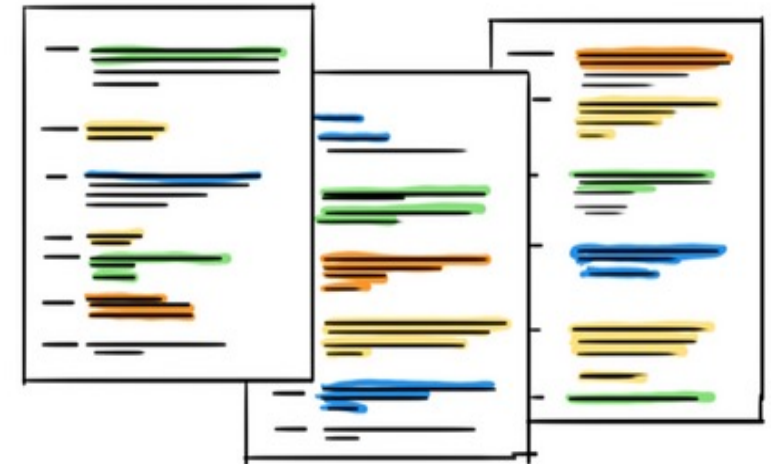
Parent-child
hierarchical
code relationship

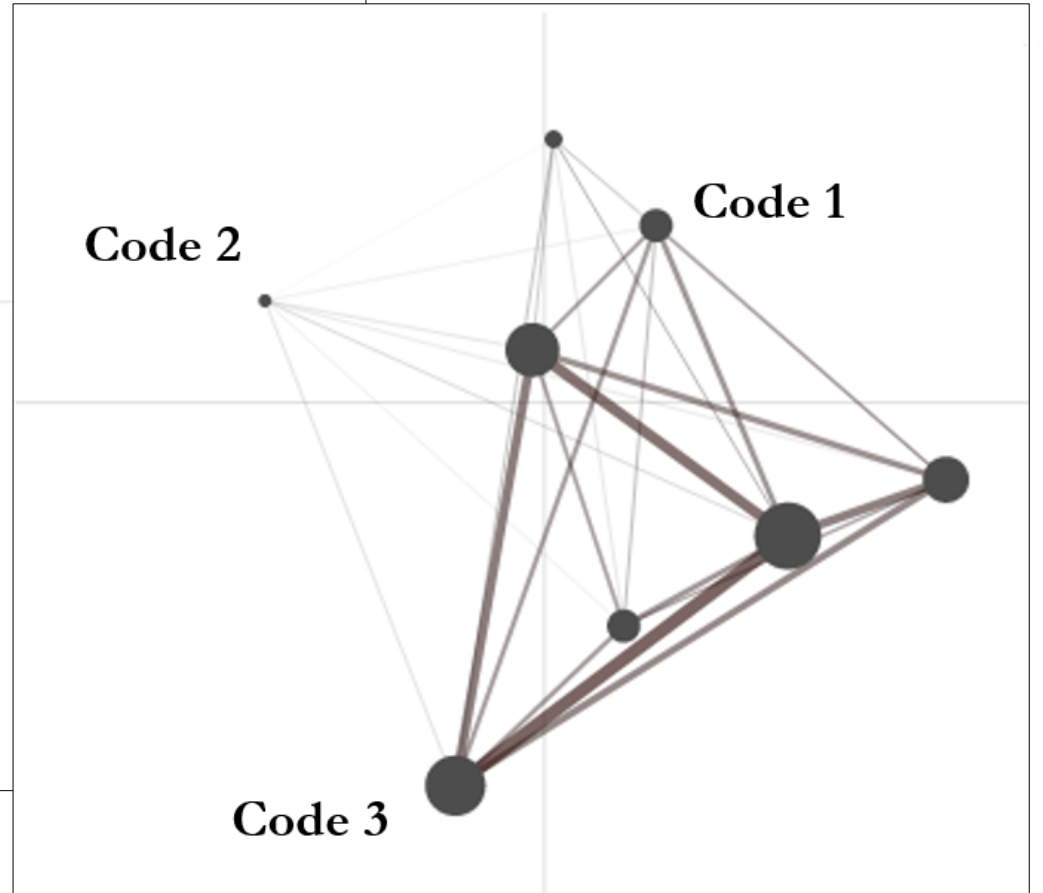
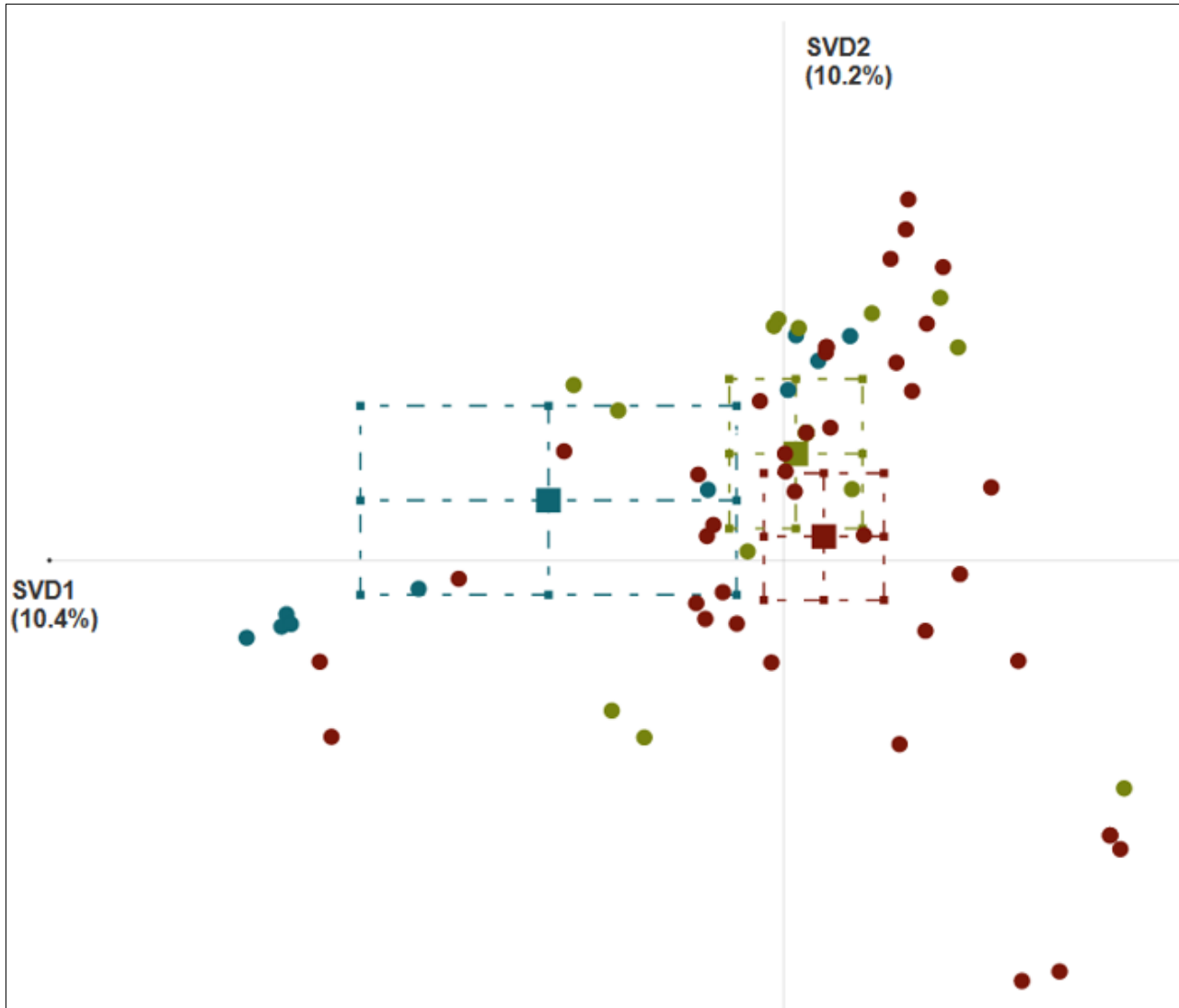


Coding scheme

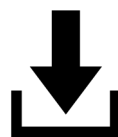


Coded data





Epistemic Network Analysis

 {rock}: 17,612

Reproducible Open Coding Kit Workshop (2 hour version)

Szilvia Zörgő & Gjalt-Jorn Peters

19:39:59 on 2021-10-31 UTC (UTC+0000)

- Getting started
 - RStudio Cloud
 - Local RStudio Desktop
- Exercises
 - Exercise 1: prepend utterance identifiers (UIDs)
 - Exercise 2: initial coding with iROCK
 - Exercise 3: inspect coded sources
 - Inductive code tree for codes
 - Collected coded fragments for codes 'money' & 'religion' with 2 lines of context
 - money (*path: codes>CONTENT>money*)
 - religion (*path: codes>CONTENT>religion*)
- Appendix
 - Links and resources
 - Commanding the `rock` package
 - R Markdown
 - Installing the `rock` package

ICQE22

ICQE21

EHP^S2021

ICQE20

QEurious Meetup

<https://rockbook.org>

THE ROCK BOOK

The Reproducible Open Coding Kit



Szilvia Zörgő & Gjalt-Jorn Peters



If you are already familiar with R, RStudio, and Git, you can also download this project and use your local RStudio Desktop installation. For the URL to the Git repository, see the [\[Appendix\]\(#appendix\)](#).

Exercises

Exercise 1: prepend utterance identifiers (UIDs)

```
```{r exercise-1-uids}
```

```
rock::prepend_ids_to_sources(
 input = here::here("data", "05--clean-sources"),
 output = here::here("data", "10--sources-with-UIDs"),
 outputSuffix = "_with_uids",
 preventOverwriting = FALSE
);
```

## Exercise 2: initial coding with iROCK

# Reproducible Open Coding Kit Workshop (2 hour version)

```
rock::prepend_ids_to_sources(
 input = here::here("data", "05--clean-sources"),
 output = here::here("data", "10--sources-with-UIDs"),
 outputSuffix = "_with_uids",
 preventOverwriting = FALSE
);
```

	Name	Size
	..	
	.gitignore	40 B
	.gitlab-ci.yml	179 B
	.Rhistory	0 B
	data	
	img	
	operationalization	
	README.md	105 B
	rock-workshop-2-hour.Rproj	205 B
	scripts	
	Xtra_materials	

# http://i.rock.science

## Sources

## Codes

## Section Breaks

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Etiam sollicitudin volutpat gravida. Phasellus imperdiet neque ante, et molestie tortor faucibus non. Integer varius, nisi et gravida rutrum, augue ipsum lacinia nunc, sed dapibus tellus leo sit amet nunc. Aenean odio purus, luctus quis commodo eget, feugiat quis odio. Quisque lobortis purus sit amet eleifend euismod. Vivamus scelerisque dictum nisl at efficitur. Donec cursus tincidunt sem. Donec id nulla blandit, fringilla lorem in, consectetur tellus. Nam vel laoreet orci, nec vestibulum turpis. Nullam eu venenatis neque. Maecenas consectetur lacinia orci, nec mattis est. Donec bibendum tincidunt est vel vulputate. Nullam aliquam ultrices libero, eget vehicula sapien laoreet quis. Curabitur eu ipsum eu magna cursus commodo non eu lorem. Orci varius natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. In nec urna sed sem maximus auctor. `[[Code_A]]` `[[Code_B]]`

---<<paragraph\_break>>---

Sed eget orci dignissim, elementum justo ut, vestibulum augue. Fusce sit amet ultricies ipsum. Aliquam non magna at mauris mattis fermentum dignissim a purus. Mauris vulputate mauris sed ex scelerisque porttitor. Phasellus blandit et dui vitae rutrum. Vivamus id ligula sit amet magna tempor blandit. Donec ut nibh purus. Cras id rutrum mauris, in porta eros. Fusce vel mattis ipsum, consequat dictum sem. Aliquam auctor, enim in placerat consequat, massa eros porttitor nisi, et tincidunt ligula velit sed purus. `[[Code_C]]` `[[Code_A]]`

---<<paragraph\_break>>---

Vestibulum tristique eros a eros condimentum, ac condimentum magna imperdiet. Suspendisse in aliquet massa, vel fringilla nisl. Cras venenatis, ante ac suscipit ultrices, ex neque varius tellus, vel tincidunt arcu eros sit amet ex. Nunc at placerat ipsum, sit amet consequat est. Proin mauris erat, commodo sed dui in, lacinia luctus lorem. Donec sit amet maximus mauris. Phasellus egestas lacus eget mauris sollicitudin lobortis. Donec blandit, dolor nec eleifend maximus, magna ipsum rhoncus erat, eu interdum urna lorem eget libero. `[[Code_C]]`

---<<paragraph\_break>>---

Integer sagittis, nisl eu euismod ornare, orci quam pharetra leo, eu gravida est nisl interdum dui. Morbi a viverra tellus. Phasellus dapibus dignissim ornare. Curabitur vitae ex at leo dignissim iaculis. Donec vehicula eu libero sed porttitor. Donec porttitor mi a pharetra tempor. Quisque malesuada nibh odio. Aenean vitae vulputate justo. Integer vel tempus risus. Sed vel orci feugiat, blandit dui vitae, tempus nunc. `[[Code_A]]` `[[Code_B]]` Phasellus quis pulvinar lorem. Etiam ex dolor, iaculis eget facilisis vel, efficitur et ex. Ut ipsum felis, tempus vel luctus et, mollis mattis eros. Fusce non massa sit amet ligula cursus pretium. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Ut condimentum pretium dui, at gravida tellus fringilla et. Vestibulum id augue placerat, eleifend libero eget, maximus nisi. Donec metus elit, euismod quis metus eu, commodo vehicula turpis. Cras ut ultrices urna, nec volutpat ex. In et convallis dui. Phasellus iaculis laoreet ipsum in mattis. Integer lacinia rutrum eros ac elementum. Curabitur nec tempor ex.

`[[Code_A]]`

`[[Code_B]]`

`[[Code_C]]`

`[[ Add a code... ]]`

---<<paragraph\_break>>---

---<< Add a break... >>---

Download



Open source



Save source



Clean source



Add UIDs



Merge sources



Modules

- 010--raw-sources
- 020--cleaned-sources
- 030--sources-with-uids
- 040--coded-sources-1
- 041--coded-sources-2
- 042--coded-sources-3
- 043--coded-sources-merged
- 050--recoded-sources

- Source-01.rock
- Source-02.rock
- Source-03.rock
- Source-04.rock

Source-01.rock Source-02.rock Source-03.rock

```
1 ---
2 ROCK_attributes:
3 -
4 caseId: 1
5 region: urban
6 age: 60s
7 -
8 caseId: 2
9 region: rural
10 age: 20s
11 ---
12 [[vid=7ghf8013]]
13 [[vid=7ghf8014]] [[cid=1]]
14 [[vid=7ghf8015]]
15 [[vid=7ghf8016]] Lorem ipsum dolor sit amet, consectetur adipiscing elit.
16 [[vid=7ghf8017]] Nam a rutrum turpis. [[parentCode>childCode]]
17 [[vid=7ghf8018]] ~Interdum et ac ante ipsum primis in faucibus. [[justACode]]
18 [[vid=7ghf8019]] Nullam lorem elementum laoreet a nec justo.
19 ---<<paragraph_break>>---
20 [[vid=7ghf801c]] Vestibulum quis nibh eget ante ultrices auctor ut vitae tortor.
21 [[vid=7ghf801d]] Phasellus odio dui, molestie nec tellus eget. [[childCode]]
22 [[vid=7ghf801f]] Praesent ac neque sit amet neque vehicula euismod.
23 [[vid=7ghf801g]] Proin ullamcorper, sed rhoncus dignissim.
24 [[vid=7ghf801h]] Aliquam erat volutpat. [[childCode>grandChildCode]]
25 ---<<paragraph_break>>---
26 [[vid=7ghf801k]] Maecenas in massa quis tellus viverra consequat.
27 [[vid=7ghf801l]] Vestibulum ante ipsum primis in faucibus orci.
28 [[vid=7ghf801m]] Vivamus ut sapien leo. [[childCode>grandChildCode2]]
29 [[vid=7ghf801n]]
30
```



[[justACode]]



Code identifier:

justACode

[[cid=1]]



Code label:

Just a code

[[parentCode]]



[[childCode]]



Code description

[[grandChildCode]]



[[grandChildCode2]]



Lorem ipsum do  
sit amet, conse  
adipiscing elit.  
ut feugiat enim.  
Pellentesque so

Coding instruction

Mauris vulputat  
metus eget pell  
lacinia. Aenean  
tristique eget o  
tempor congue.



Thank you !  
 Yerun



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ROCK links and materials available at:  
<https://rock.science>