

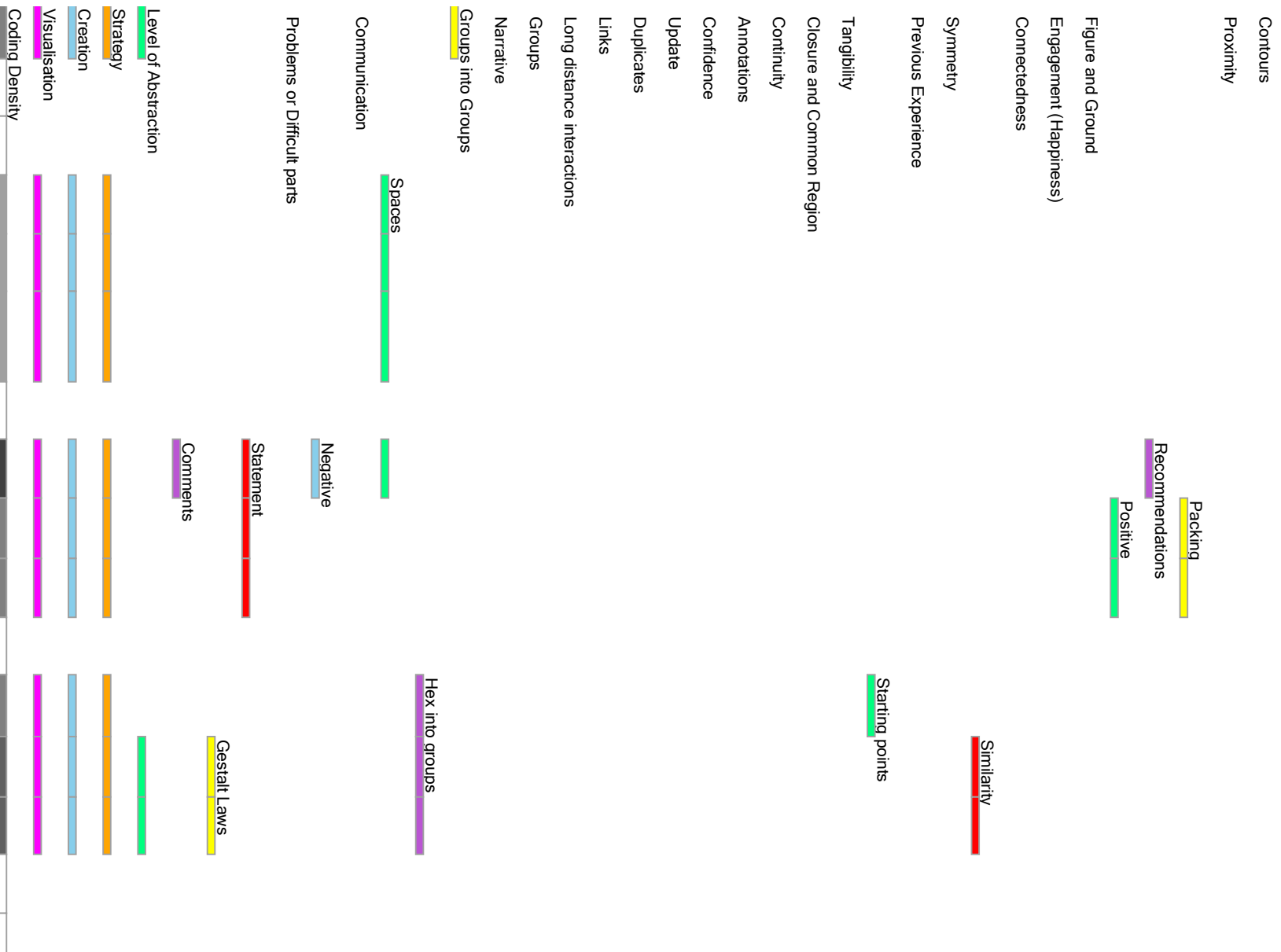
	Timespan	Content	Speake r
1	0:01.3 - 0:16.1	I was wondering if you could explain me what have you done here?	SP
2	0:16.1 - 0:49.0	I think that the task is like an overview of that i need to provide all the research that takes place and this needs to organize them and group them - and make understandable to public people are not very of what are the different groups - and because there are 75 it is very hard to - it is important to understand what the relationships are - and then maybe order them in terms of some form of hierarchy maybe because there are some topics that seems very detailed - so that is basically the answer to that question.	
3	0:49.0 - 0:55.0	I think the objective is to group them and them make them understandable to people.	
4	0:55.0 - 0:59.9	I was wondering how happy are you with it?	SP
5	0:59.9 - 1:22.1	I think I should have labeled them and I feel like the space constrain - so it sorts of makes it difficult to sort of be more free and to move it - I guess - we have this like flat space maybe there are different perspectives of seeing the data.	
6	1:22.1 - 1:26.3	Did you find the task really difficult?	SP
7	1:26.3 - 2:07.4	On a scale of 1 to 5 - the task is about 3 or 4. It is a bit difficult I mean it is very ambiguous thought - there is lots of ambiguity of what - each - there can be many meaning for one particular topic. So, I could say - like what does child mean? and is it like - do I group them in like it is called a child? or should I group them at public, people, and stuff? it is too broad I guess though.	
8	2:07.4 - 2:25.3	So, What if I give you instead of giving you one - like a card for child you could have multiple ones? what if you had 2 or 3 or you could have as many as you want? would that actually help?	SP
9	2:25.3 - 2:41.7	I think it needs to be more specific I guess, child is too ambiguous, too high level. If I need to group them or relate them to some other topics, it would be useful to have a more - a different types of child.	
10	2:41.7 - 2:43.9	Like a little bit more specialized but not repeated?	SP



11	2:43.9 - 2:49.3	Yeah.	
12	2:49.3 - 2:59.7	From the whole chart is there any part - that you are not too sure about it? or you don't like?	SP
13	2:59.7 - 3:13.4	I think there is a group of sensor, laser, optimal, imaging - Imaging is a bit strange, but I guess there is something to do with your group.	
14	3:13.4 - 3:19.0	Is there any part, for example you left in the corner Africa?	SP
15	3:19.0 - 3:33.1	Yeah, I had a sole in Africa. I wasn't sure - there would be another countries I assumed. But yeah - that is a bit like Africa no body or place to keep it or group them.	
16	3:33.1 - 3:38.0	Is it because it falls into many areas or because you didn't find?...	SP
17	3:38.0 - 3:45.6	Yeah, I don't think it group well without the other.	
18	3:45.6 - 3:59.9	Did you had any strategy? You said you started with groups?	SP
19	3:59.9 - 4:34.1	Yeah, the first strategy was to just understand what are the different topics available and group them and start grouping them. And then once I group them, then I see that there is different levels at which the group relates to. So I guess like people - like in terms of research - people and ... there would people specifically working on a protein, DNA, genes, cells, stuff. And there is one particular level of - it quite details and complex.	
20	4:34.1 - 5:20.4	But then they would be higher level of groups such a like brain, muscle, blood, fat which would be all this research sort of be relevant to this guys. But it think is important to first group them in one group and then said that this guy are researchers of this and can affect / have an effect on these. I think hierarchy is important. If you are showing something to the public. I don't they would prefer to see first high level of research that is going on and then maybe they go into all the details about blood and the DNA - It depends who is seeing it though...	
21	5:20.4 - 5:24.1	If you are having something that is printed? Like a book?	SP
22	5:24.1 - 5:30.7	Oh OK then you can't have it twice.	

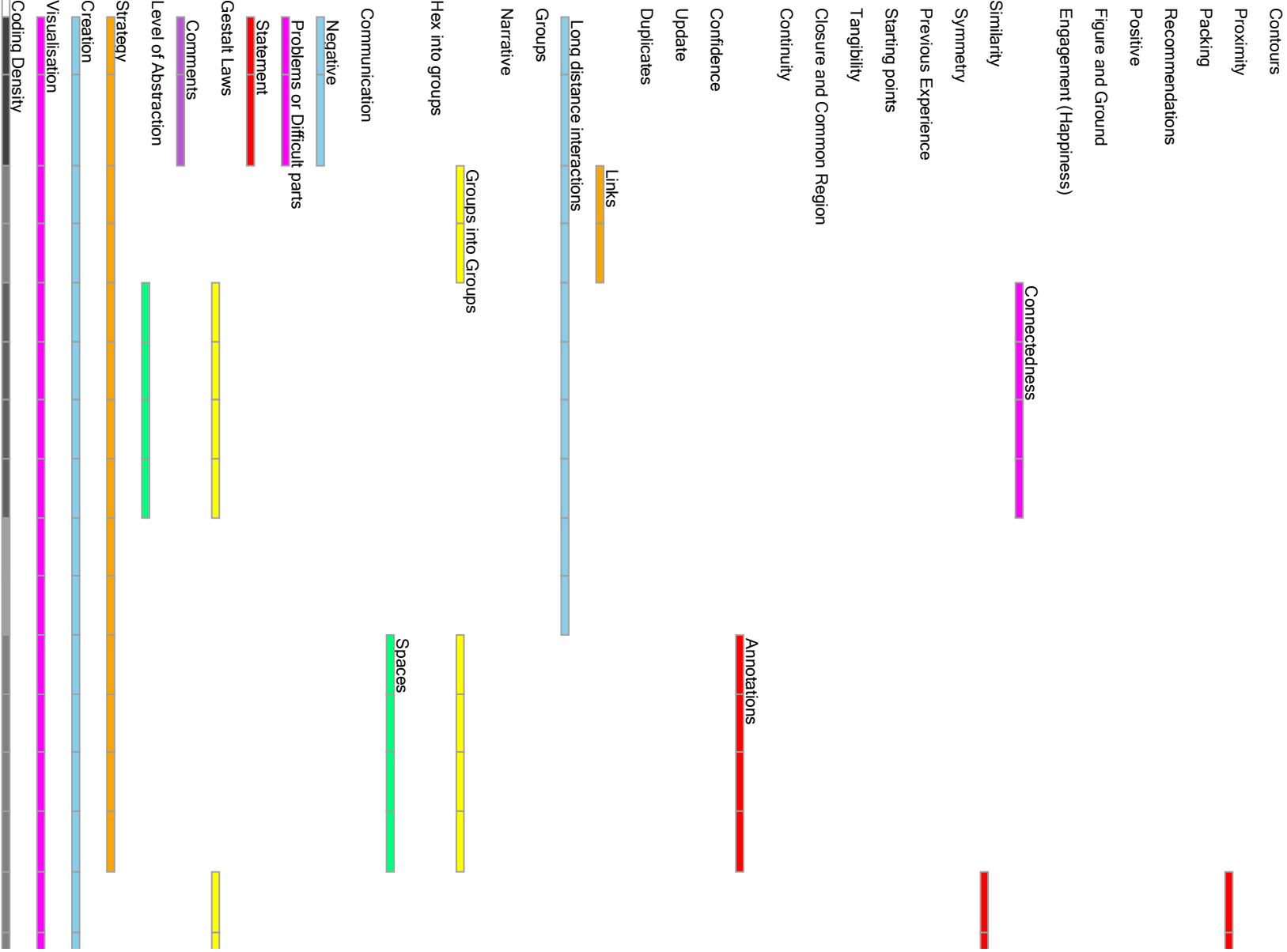


23	5:30.7 - 5:39.3	Then I guess they need to be levels - like a level and then higher levels if that would help.	
24	5:39.3 - 5:50.0	I was also wondering when you were doing your groups - did you then try to join groups of groups? for example these two together?	SP
25	5:50.0 - 6:19.7	Not more joining but I'm saying that this level of these groups - could have an affect on the research that is produced by these groups could have an affect on this guys. I think this research groups works at one particular level of that field - but I guess some of them would be interested in the what is happens in the low levels in terms of yeah.	
26	6:19.7 - 6:22.6	What about the spaces?	SP
27	6:22.6 - 6:24.5	Space between the groups say?	
28	6:24.5 - 6:31.3	Yes between the groups - did you thought about how you - what is the space of it?	SP
29	6:31.3 - 6:38.7	No - I just group them and then just let ....	
30	6:38.7 - 7:13.8	I guess that I wanted to do but i could not do as I found it very difficult - there are certain things like health, like people, culture, data, and security. And the thing that are they are overall groups - I would prefer to align but then I found quite hard to group them in ... that line. I would try to separate the overview and do sections.	
31	7:13.7 - 7:24.5	Did you find this - was the space enough - or were you running out of space for the whole thing?	SP
32	7:24.5 - 7:38.7	I think I tiny more space would be useful - just to organize things and group them up.	
33	7:38.7 - 7:54.7	Did you instead tried to packed everything together? like very nicely into smaller groups? did that came into your head? Did you felt the need of packing everything?	SP
34	7:54.7 - 7:59.5	Yeah	
35	7:59.5 - 8:06.4	If you had any starting point? did you started in the middle of the chart?	SP

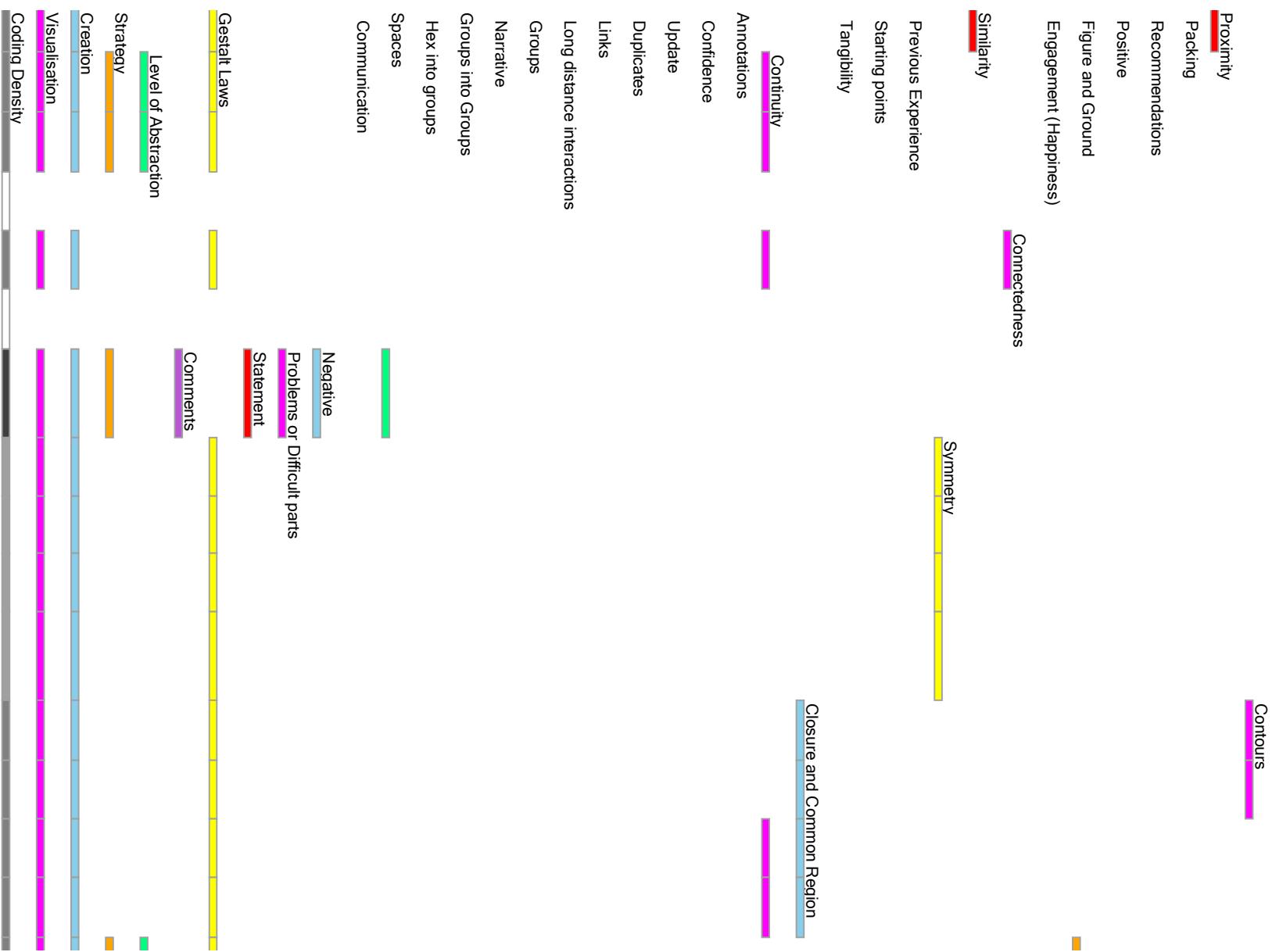




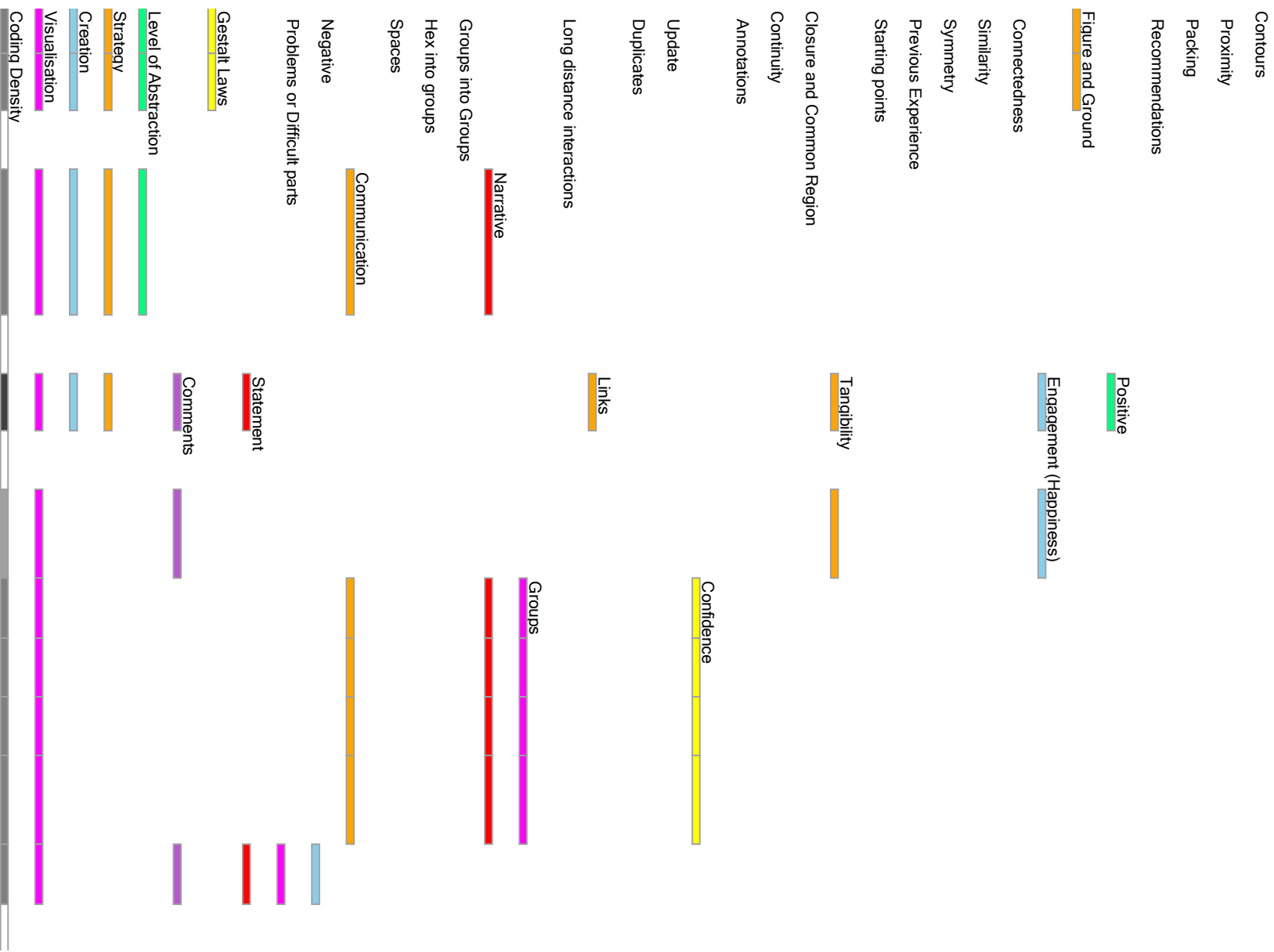
36	8:06.4 - 8:16.4	Yeah - I started in the middle of chart and then push all the groups that I did not understand into the other sides and started grouping them.	
37	8:16.4 - 8:34.0	When you join the things into groups, like for example here here gene with hormone. Is there any relationship? Did you them like gene or cell here. Are they similar?	SP
38	8:34.0 - 8:38.3	I think they are similar and they are also at the same level maybe of details.	
39	8:38.3 - 8:41.9	But, hormone is a bit closer to gene and ...	SP
40	8:41.9 - 8:45.1	No - I did not group them in that...	
41	8:45.1 - 8:49.7	You didn't thought if they are a little further away are they more different?	SP
42	8:49.7 - 9:15.6	I tried to do them here for ocean, earth, - I tried to do it - but then because of the number of things it started to get out of hand. But for few I tries - but for the remaining I just threw them as i thought the same group. But, at this point I don't think there is a strong relationship between but I just feel they are in the same level.	
43	9:15.6 - 9:24.8	What about the distance from the groups? Is this one a little bit more related to or the one to on the other side?	SP
44	9:24.8 - 9:28.2	At this point there is no relationship on the distance.	
45	9:28.2 - 9:34.0	So, you did not thought about the relationship - but you put these ones a bit close to?	SP
46	9:34.0 - 9:38.7	This two - in terms of the relationship they are more related.	
47	9:38.7 - 9:48.7	But all the the other ones you didn't even thought - are they just different to you?	SP
48	9:48.7 - 9:57.9	There is some hierarchies - I feel this is connected and then this two ...	
49	9:57.9 - 10:04.6	So you just put the ones that are connected next to each other? So anything that is far away you don't count it?	SP



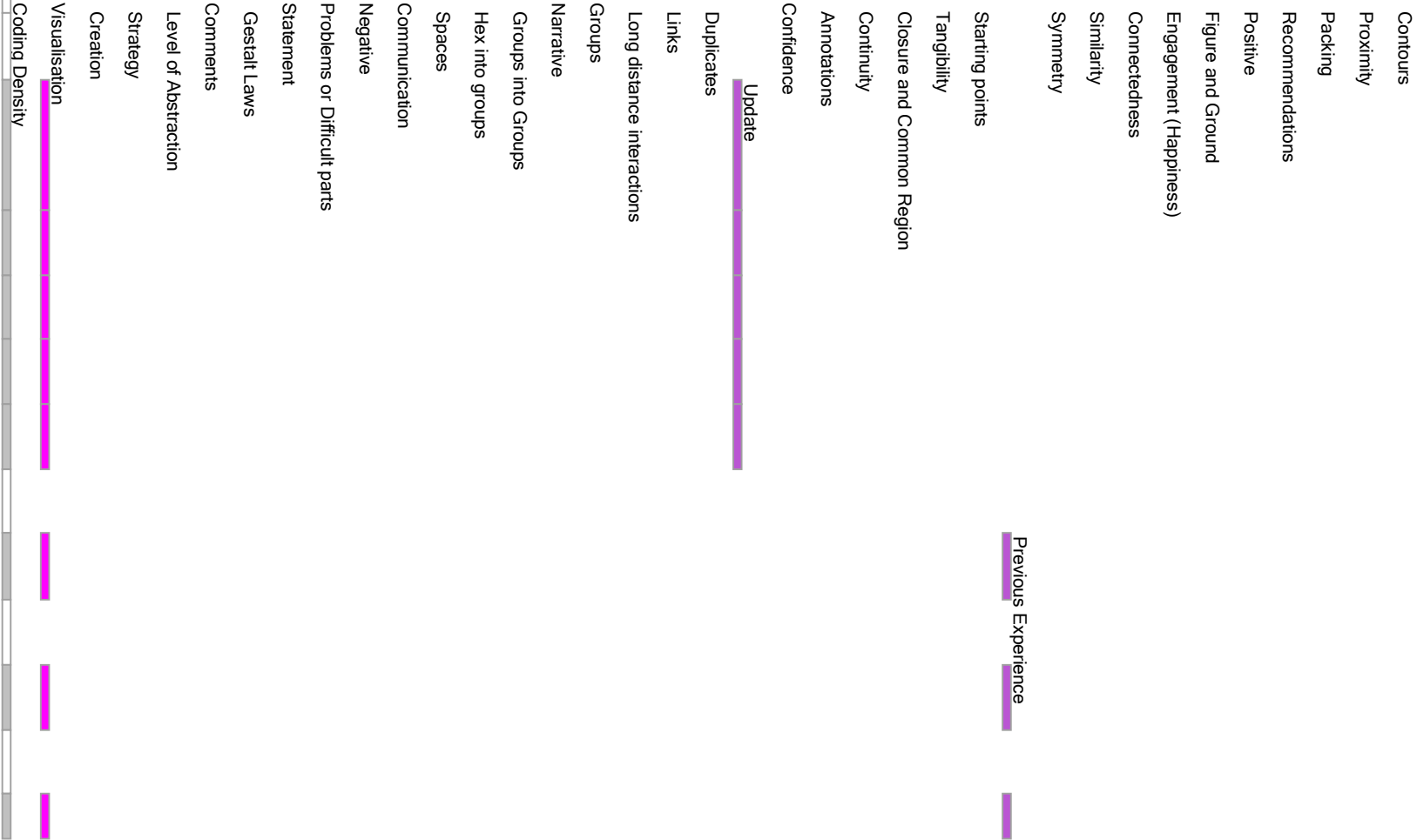
50	10:04.6 - 10:16.5	I guess this are just each groups. But yeah the distance I couldn't take into consideration too much.	
51	10:16.5 - 10:28.6	What about empty spaces? Did you think if you find a card that would go there - would you put it there?	SP
52	10:28.6 - 10:29.0	ISH (yes) ...	
53	10:29.0 - 10:33.2	Or do you think that space is suppose to be there?	SP
54	10:33.2 - 10:47.9	Yeah, I think there is once were I draw the box. I removed the topic so then the box still looked very big. Resizing the boxes is difficult after you draw it.	
55	10:47.9 - 10:57.5	Let me ask you a bit about the actual boxes and things like that. So you said if they are next to each other they are similar -right?	SP
56	10:57.5 - 11:04.8	Yeah	
57	11:04.8 - 11:30.7	Did you try to make - like a flow of how you did the groups? did you try to make it like a bit more continuous? or did you try to make it a bit smoother?	SP
58	11:30.7 - 11:37.8	In terms on continuity, I feel this is the continuity that I have seen in terms of the order and hierarchy of the groups.	
59	11:37.8 - 11:41.5	I'm just wondering a bit more in terms of the actual groups ....?	SP
60	11:41.5 - 11:46.1	Flow? I don't think there is a flow at this moment.	
61	11:46.1 - 11:52.1	What about for the whole thing? I can see that you have some kind of space? Do you felt the need to fill that space?	SP
62	11:56.0 - 12:18.9	I felt that maybe I needed to better organize the groupings but I found that very difficult. But yeah - i felt like I could use more ... web base thing I think I could organize that even better. But yeah - I did not utilize properly - I feel like I was unable to utilize spaces.	
63	12:18.9 - 12:22.2	What about like symmetry?	SP



64	12:22.2 - 12:25.9	Yes, symmetry (...) (...) (...) refinement level.	
65	12:25.9 - 12:36.6	If you could - were you thinking maybe I need something from one side - it should be on the other side?	SP
66	12:36.6 - 12:59.1	yes - So, I felt that this are like this two have a very similar thing like low level and higher level. I think also like religious, communities and policy. This affect social, cultural, people, school and children and then this affect public, market places. I guess this topic affects these three subject.	
67	12:59.1 - 13:10.1	Here you have something like this kind of shape, like three and two? Do you felt like completing this one so it is like kind of the same?	SP
68	13:10.1 - 13:14.2	no	
69	13:14.2 - 13:18.9	this two ones are kind of similar - but did you felt like completing the groups?	SP
70	13:18.9 - 13:29.7	No - I felt like as long as they were related and I would not want to complete them base on the fact that the thing needed completing - the topic was more important.	
71	13:29.7 - 13:50.6	What about multiple level? what about a foreground and a background?	SP
72	13:50.6 - 13:57.3	Maybe yeah. - Yes.	
73	13:57.3 - 14:07.2	If you were trying to create a narrative or story? Were you trying to do that?	SP
74	14:07.2 - 14:53.7	Slightly in terms of the ordering of levels of detail. I think that if I'm new to this research area and of my level of understanding of one particular field of health is low - I would prefer to start at the high level and then go to the lower levels. So, suppose I'm interested in health and stuff. but then if I go into gene and DNA - I might get a bit scared about the research that is produced here. so I prefer to start here. This would provide links to this guys here and then here.	
75	14:53.7 - 14:57.1	What about the cards? do you like the cards? the shape? how you?	SP
76	14:57.1 - 15:01.0	Yeah - I think it helps connect the groups in a nice way.	



77	15:01.0 - 15:12.7	So for example, I gave the same task but in an iPad, would that be a bit better, or did you actually liked it?	SP
78	15:12.7 - 15:38.1	I prefer this stuff. I think the iPad, specially the size, it would difficult to group. Maybe it would be possible. Like if you could zoom in and out and stuff. I think it might be a bit easier to group. But always, getting just like that *snap fingers* that overview picture very quickly that always helps.	
79	15:38.1 - 15:54.7	What about your whole overview? do you feel like you know the whole thing now? do you fell like you know what they are doing? now?	SP
80	15:54.7 - 15:59.6	Yea, I see there is an idea of what type of styles of research is taking place.	
81	15:59.6 - 16:11.0	Is I were to tell you - you were away - could you actually explain it to them?	SP
82	16:11.0 - 16:33.4	I say it is a very wide group of research - i would not be able to ... I would say that this are the types of topics that are available in terms of health, sort of art, entertainment and social services. But I would only be able to give a high level. because this are all high level topics.	
83	16:33.4 - 16:41.2	I was not bale to use the blank cards, I did not understand why? Was I suppose to introduce new topics - I did not think I could introduce new topic.	
84	16:41.2 - 16:48.0	Is up to you - is just an option	SP
85	16:48.0 - 17:11.2	If I now, I forgot to give you four of them- how? do you think you can actually add them to the chart? or I noticed you draw a few things. but say for example you could just redraw the circles.	SP
86	17:11.2 - 17:43.1	Yeah - I think fuel and stuff i would normally put it back into the group of basic element. But when i see animal, I would group them into animal, plants and people that would create a new group. Language is something that I do not see anything related to maybe there is something like text and sound. I would not know what group to drop language in but if its school language then it is very very difficult.	
87	17:43.1 - 17:54.6	For example if it fits into this group something - how would you add that- would you put it in a corner or?	SP
88	17:54.6 - 17:55.7	Yeah I would just put it in a corner.	
89	17:55.7 - 17:59.4	But if it does not fit? then you would actually need a new group?	SP





90	17:59.4 - 18:08.8	Yeah.	
91	18:08.8 - 18:18.8	How expert are you in this? do you do visualization? or charts when you work?	SP
92	18:18.8 - 18:39.3	We do simulations so that is like a we do a small level representations visualizing the different states. the smaller one, but not too much. not like this level of details you guys work.	
93	18:39.3 - 18:55.1	What about layouts and things like that? like web pages, leaflets? do you have any experience with those?	SP
94	18:55.1 - 19:01.3	I made a web place that is about it.	
95	19:01.3 - 19:09.3	I mean web page, layouts, how do place things?	SP
96	19:09.3 - 19:28.7	I think in game design there is always like an aspect of that - place things. 1 to 5? 1	

Contours  
Proximity  
Packing  
Recommendations  
Positive  
Figure and Ground  
Engagement (Happiness)  
Connectedness  
Similarity  
Symmetry  
Previous Experience  
Starting points  
Tangibility  
Closure and Common Region  
Continuity  
Annotations  
Confidence  
Update  
Duplicates  
Links  
Long distance interactions  
Groups  
Narrative  
Groups into Groups  
Hex into groups  
Spaces  
Communication  
Negative  
Problems or Difficult parts  
Statement  
Gestalt Laws  
Comments  
Level of Abstraction  
Strategy  
Creation  
Visualisation  
Coding Density