





Students in academia are different. Who do we talk to? An empirical study from NMBU

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<http://www.lavernesartpotfolio.com>

Personality theory



Dichotomies of type

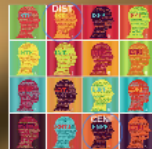


E (Feeling):
Tends to make decisions based on their values rather than pure logic. Is often empathic, and strives to create a warm, personal and friendly environment.

N (Intuition):
Tends to perceive the world indirectly through the unconscious, associations and "reading between the lines".

S (Sensing):
Makes perception mainly through the senses, and is fact oriented and down-to-earth.

T (Thinking):
Tends to make decisions based on pure logic and theories rather than values, and may seem impersonal.



E & Sensory:
- Focus on the outer world of things.
- Acts before-hand thinking.
- Likes to communicate and work in groups.

I & Intuitive:
- Focus on the inner world of concepts and ideas.
- Thinks before acting.
- Likes to work individually.

D (Judging):
- Prefers to have worked out plans.
- Needs to understand by first understanding the parts.
- Downward thinking.
- Usually good at getting things done in due time.

P (Perceiving):
- Likes to be flexible with regard to how and when to reach a given goal.
- Often procrastinating as an effect of the need for more background information in respect to find a relation or a big picture within given the parts a meaningful context.

Personality theory



Carl G. Jung (1875 - 1961)
(www.sofia.edu)

Katharine Briggs Isabel Briggs-Myers

Personality theory

Dichotomies of type

F (Feeling):

Tends to make decisions based on their values rather than pure logic, is often emphatic, and strives to create a warm, personal and friendly environment.

S (Sensing):

Makes perception mainly through the senses, and is fact oriented and down-to-earth



N (iNtuitive):

Tends to perceive the world indirectly through the unconscious, associations and "reading between the lines"

T (Thinking):

Tends to make decisions based on pure logic and theories rather than values, and may seem impersonal.

E (Extravert):

- Focus on the outer world of things
- Acts before/while thinking
- Likes to communicate and work in groups.

I (Introvert):

- Focus on the inner world of concepts and ideas
- Thinks before acting
- Likes to work individually



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D (Digital):

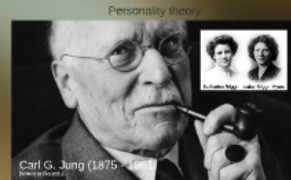
- Prefers to have worked out plans
- Builds up understanding by first understanding the parts (bottom-up thinking)
- Usually good at getting things done in due time.

C (Contextual):

- Likes to be flexible with regard to how and when to reach a preset goal
- Often procrastinating as an effect of the need for more background information in respect to find a relation or a big picture which give the parts a meaningful context



Personality theory



Dichotomies of type

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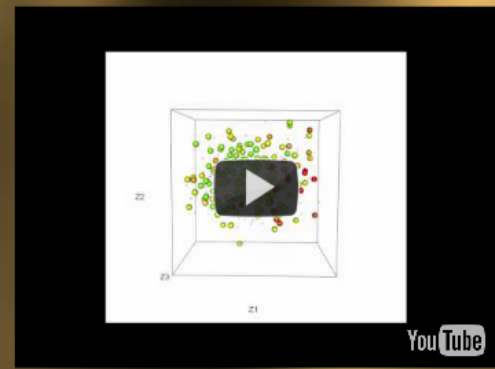
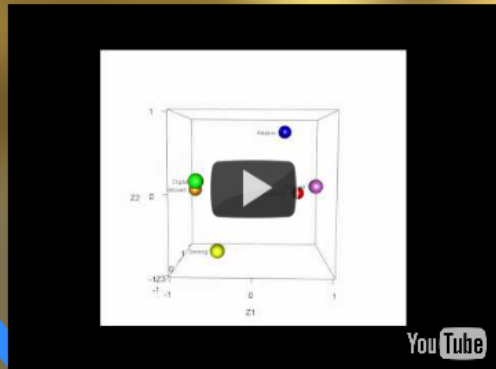
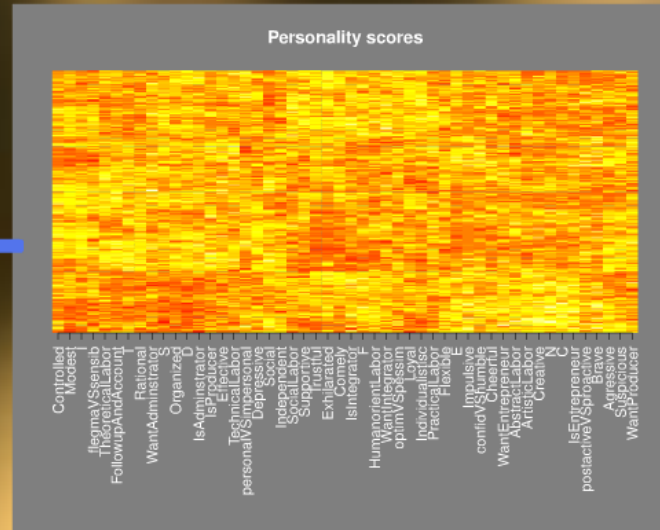
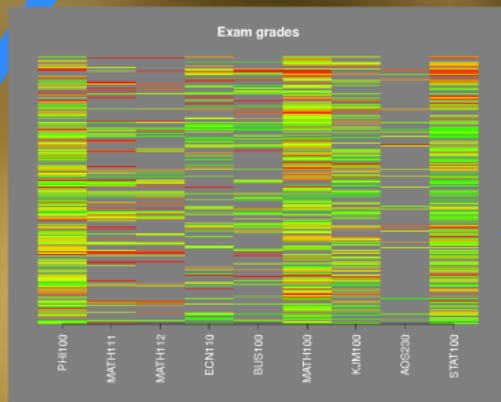
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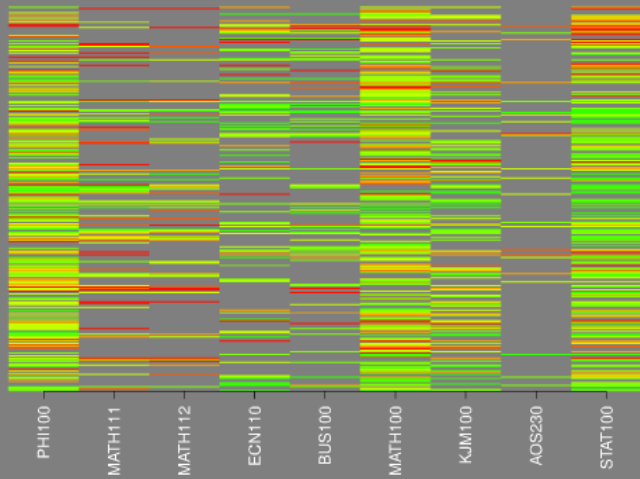
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Data

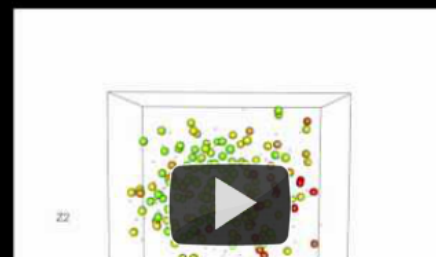
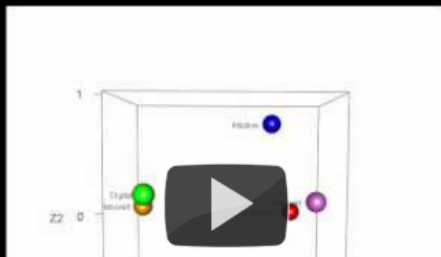
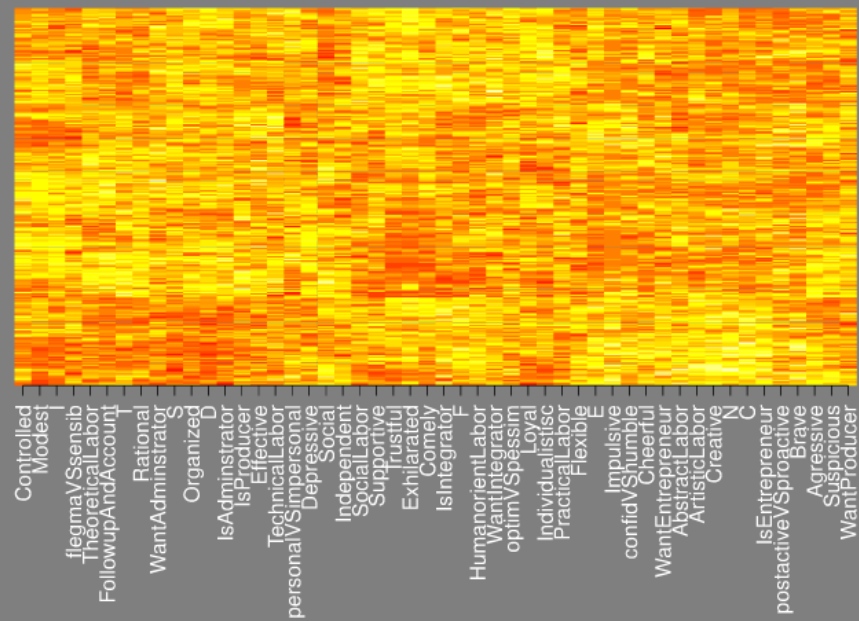


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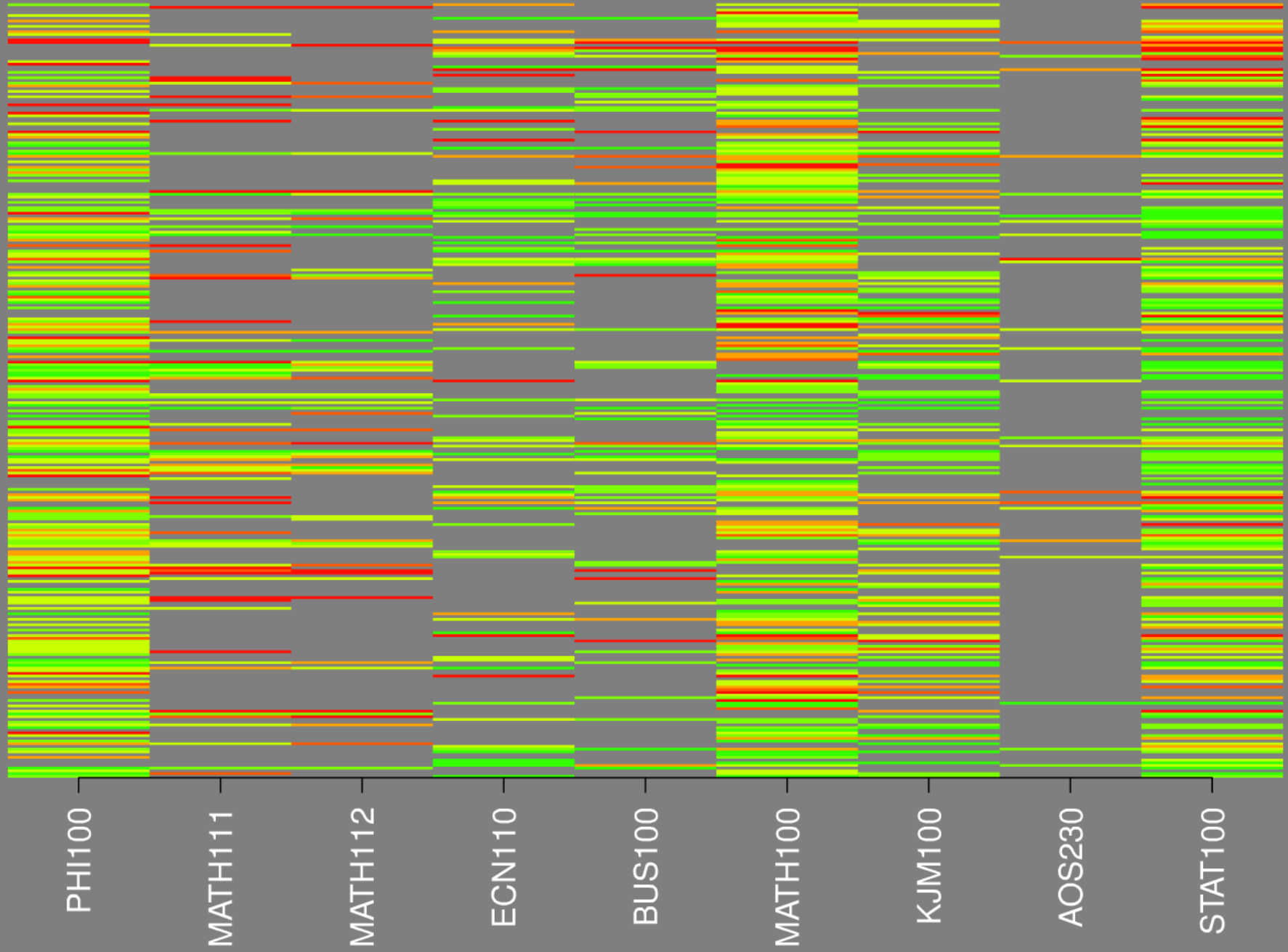
Exam grades



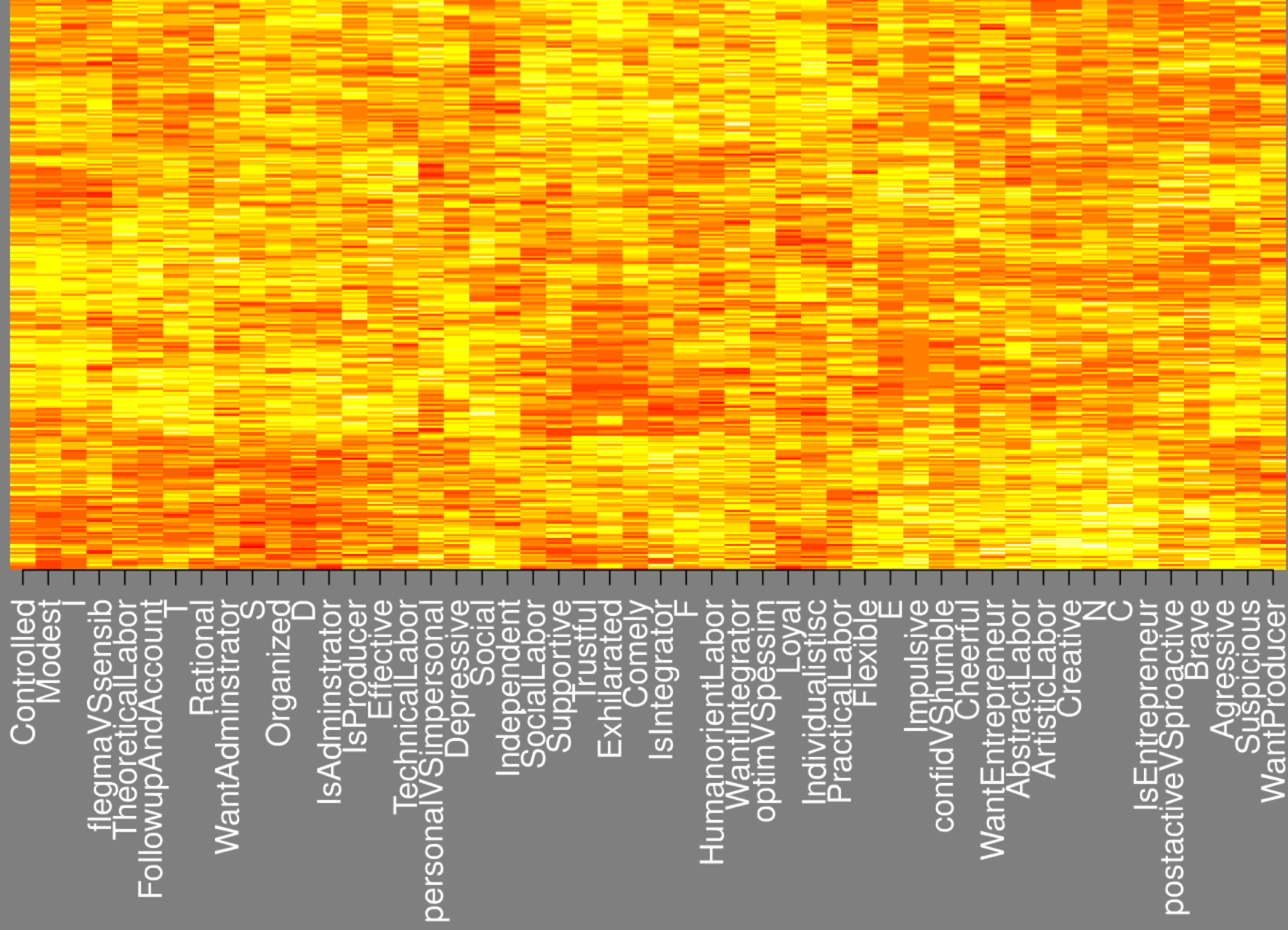
Personality scores



Exam grades

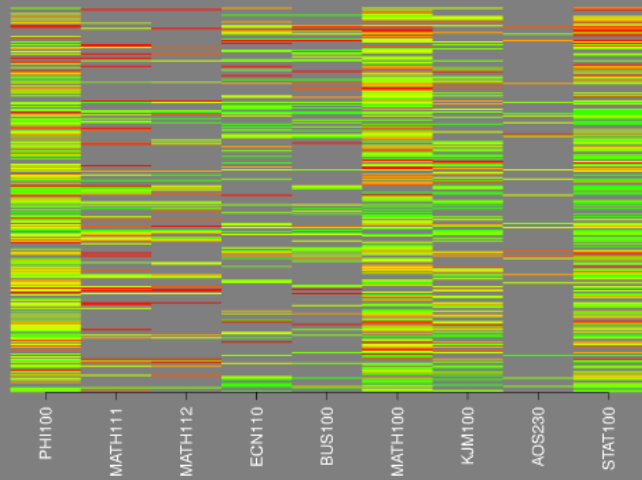


Personality scores

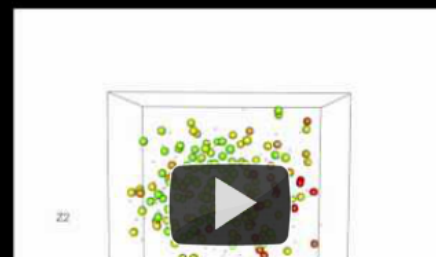
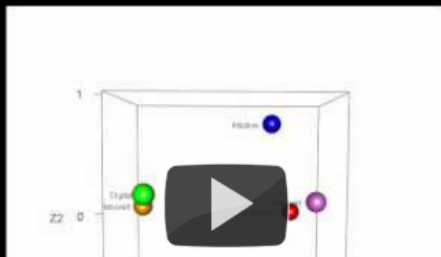
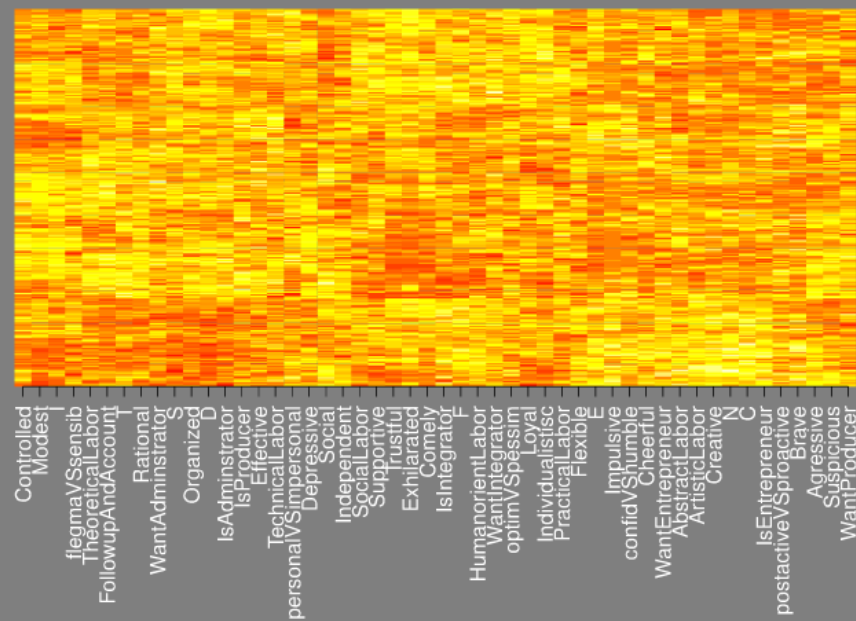


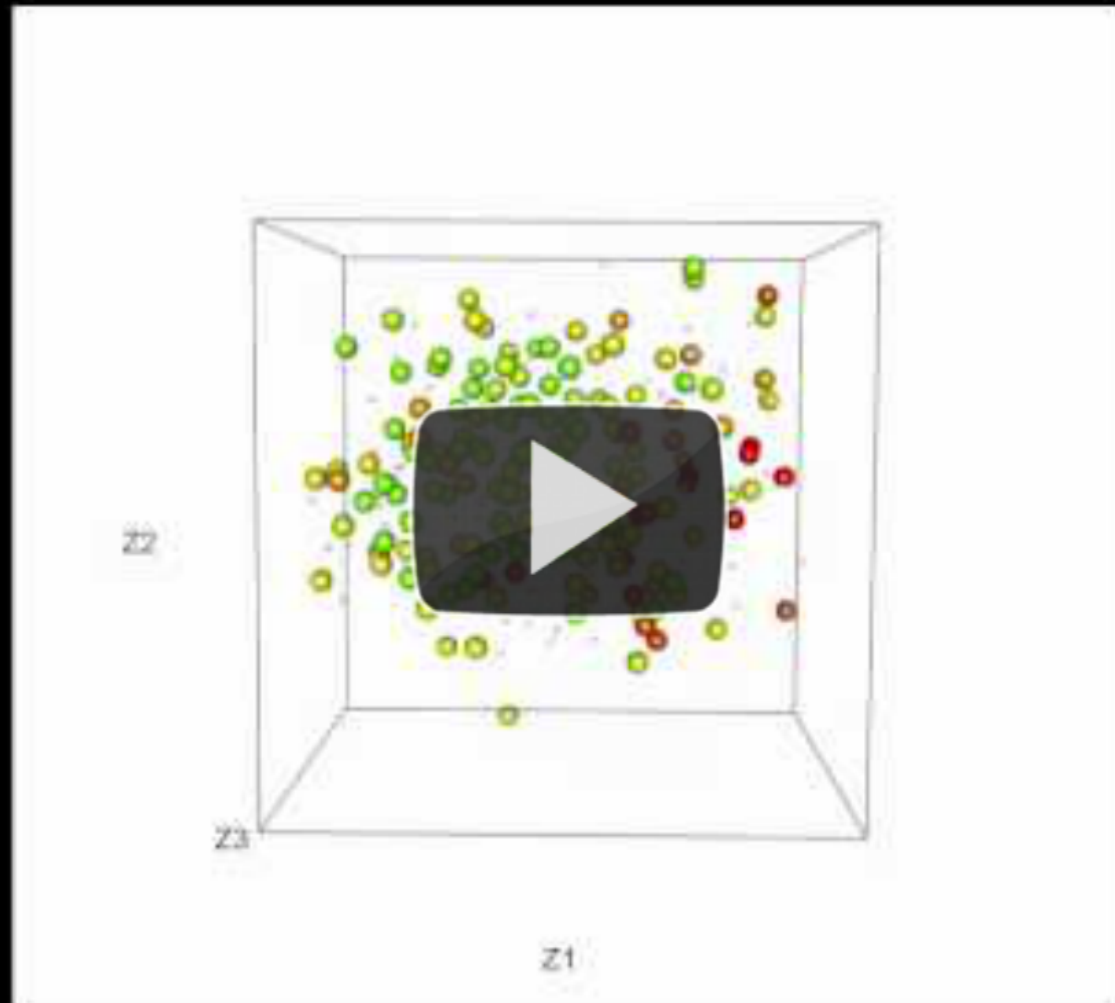
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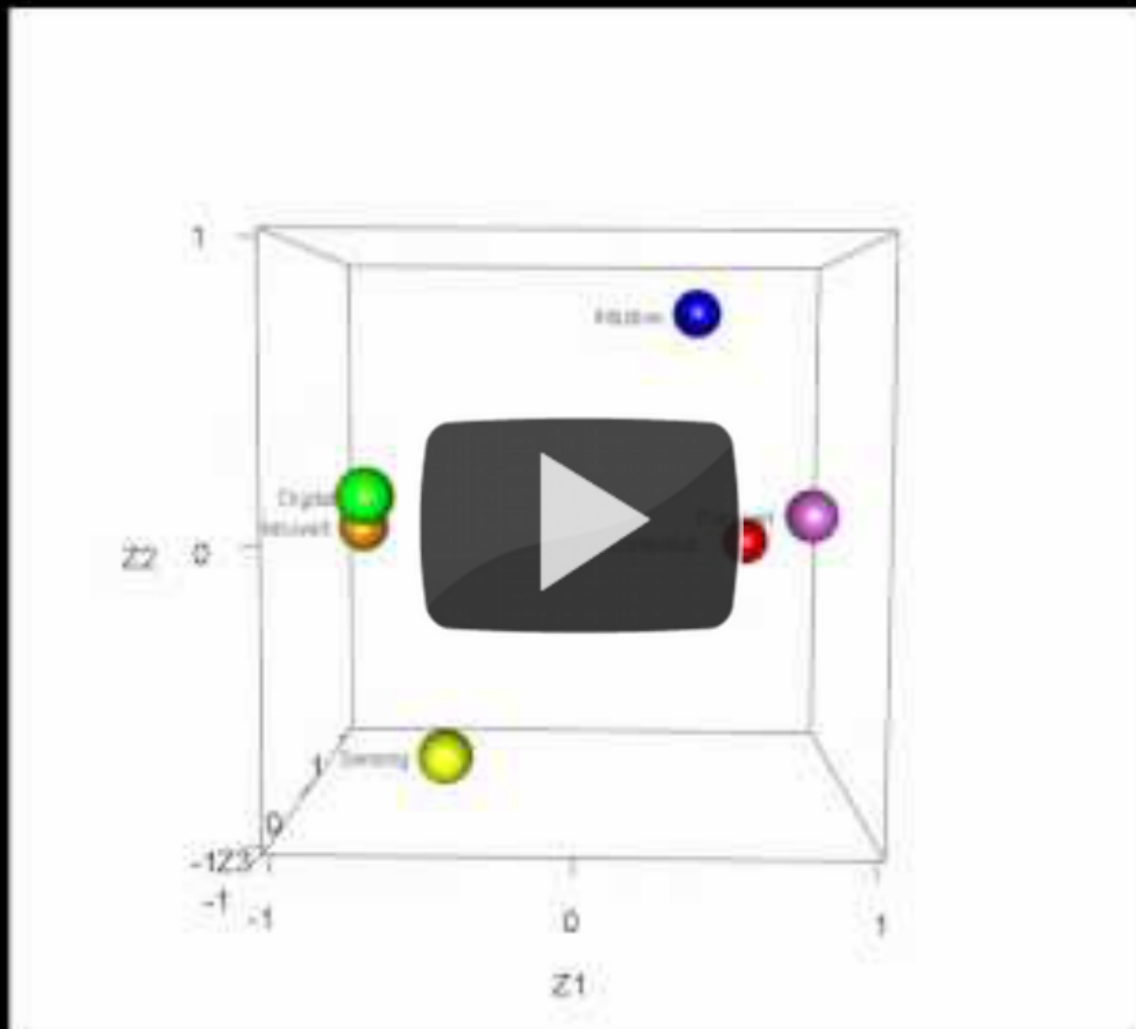


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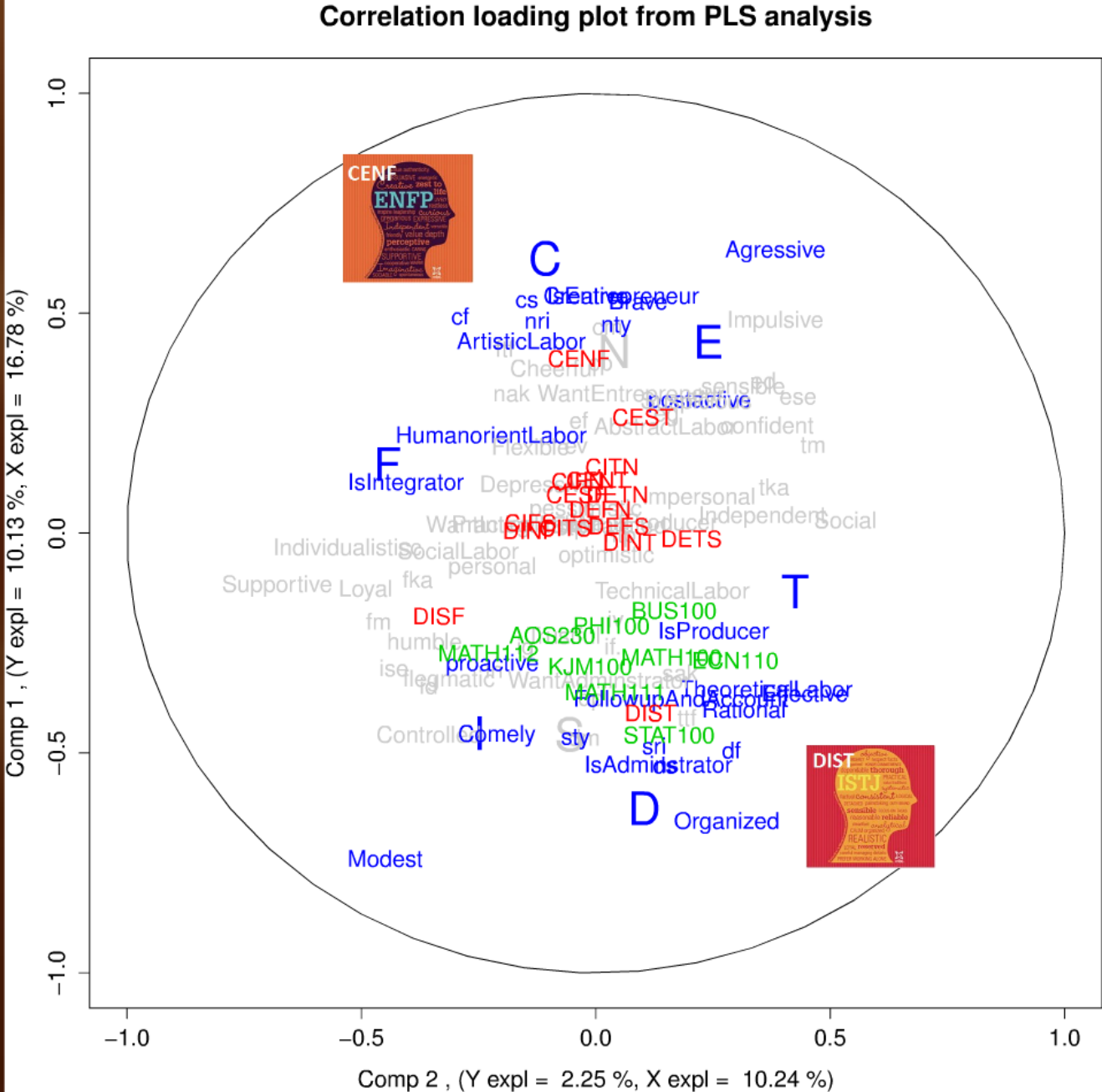


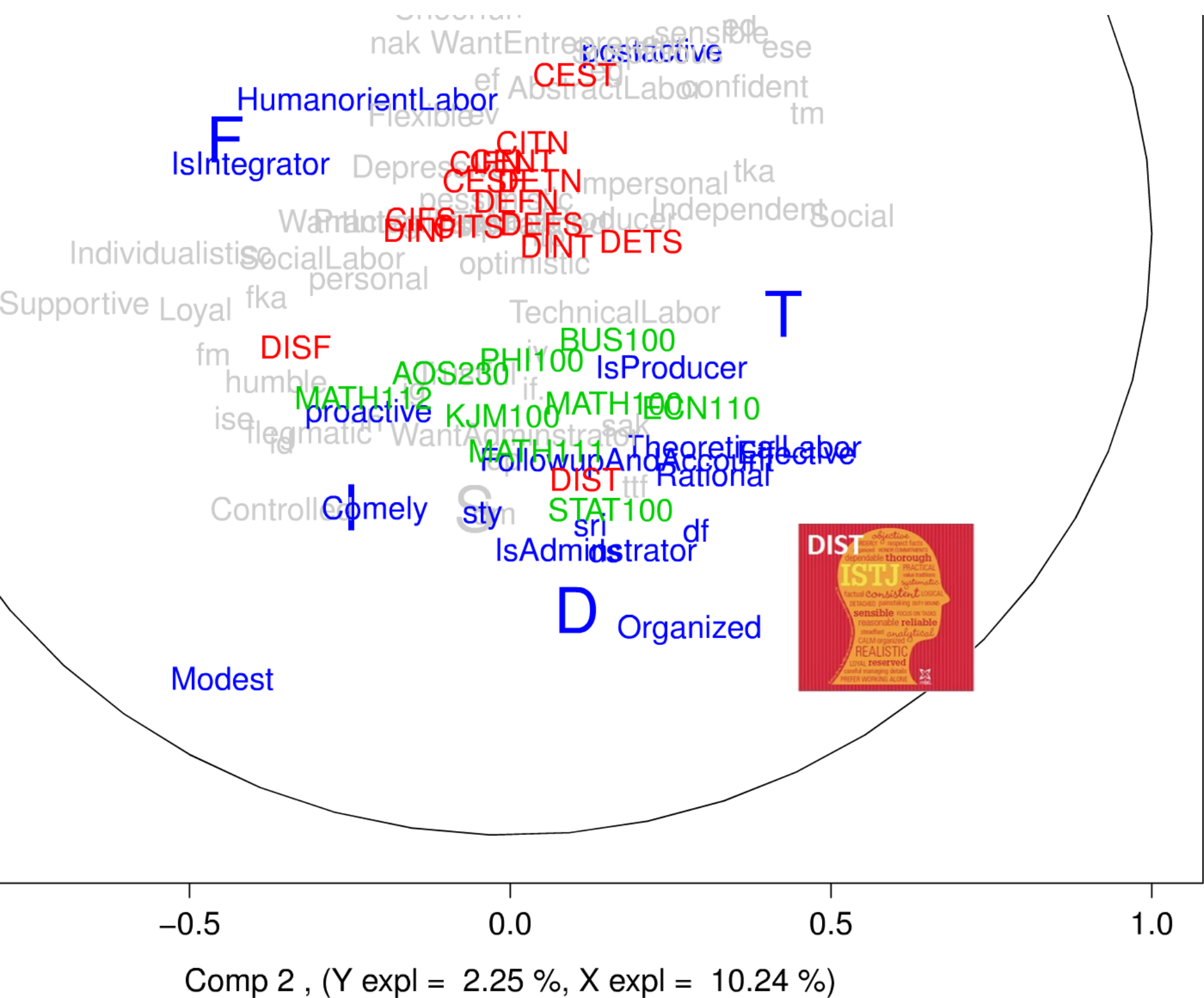
You Tube

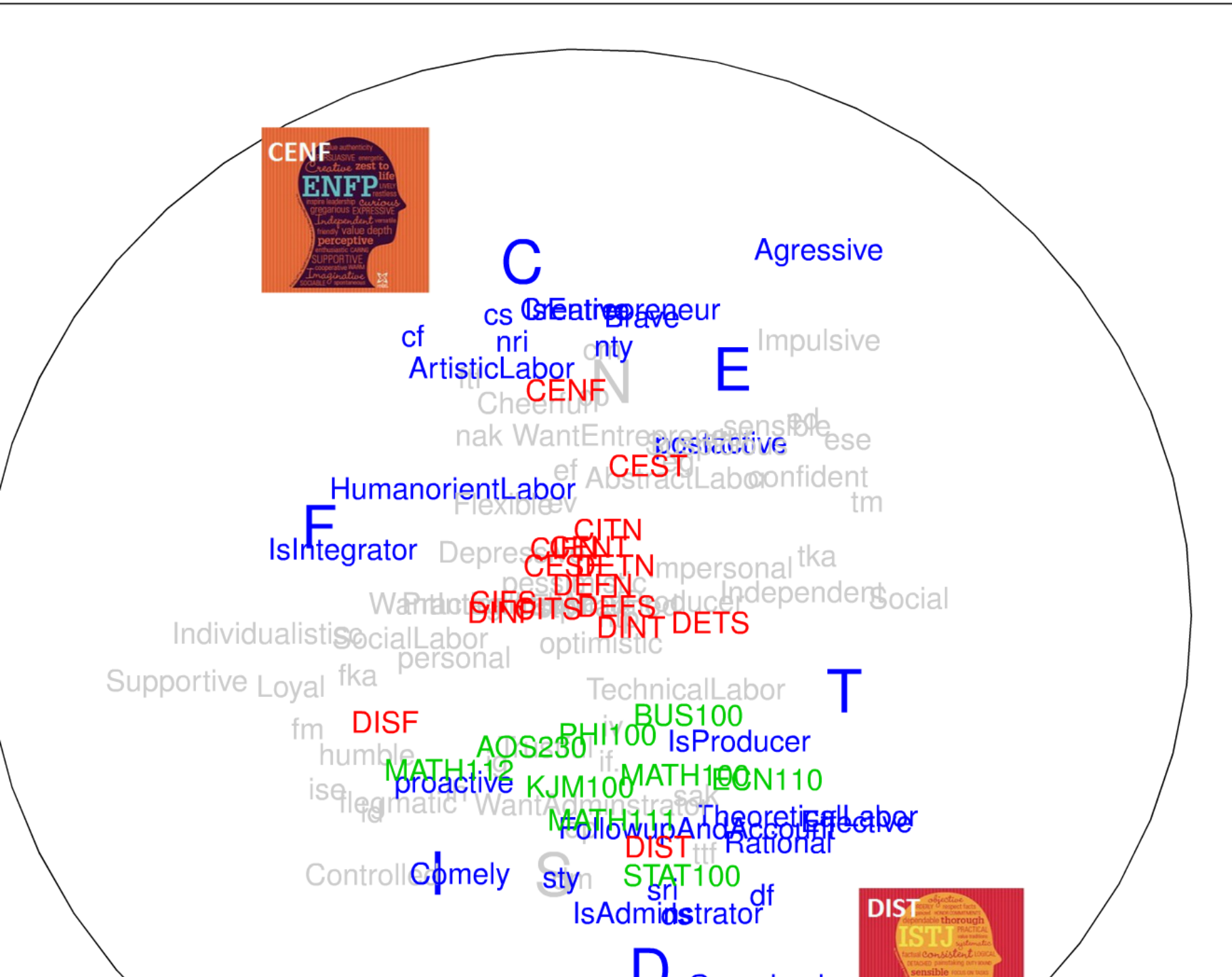


YouTube

Results from data analysis







Pedagogic considerations

"The CENF-University"

CN :

- Flexible course structure
- Explorative style driven by motivation
- Follow inspiration and intuition
- Get the 'Big picture' first, fill in details later

F :

- Driven by personal motivation, relevance
- Work in groups
- Seeks the 'good feeling'

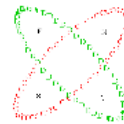
E :

- Discussions in class and in groups
- Explorative style, 'data mining'

One size don't fit them all!

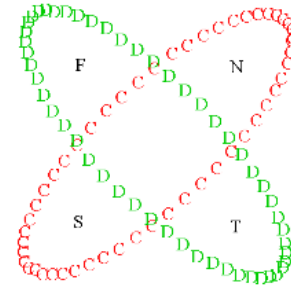
Adapt to the student!

STEMcognition.no



- A new «thinking group» for cognition about the STEM-subjects
 - «Thinking about thinking»
 - Organized under the National Center for Science recruitment (NTNU)
 - Members:
 - Dr. Psychol Helge Brovold, National Center for Science Recruitment
 - Prof. Solve Sæbø, NMBU/ National Center for Science Recruitment
 - Assoc. prof Mona Nosrati, Norwegian Centre for Mathematics Education
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