

UNIVERSITY OF WALES
"TRINITY SAINT DAVIS "



Digital Skills and Research
Methods

BMSW 4003

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"How I can use the DIKW and CRAAP
frameworks to confirm or refute the work of
Angela Duckworth"

DIKW Origin and Appearance



In my presentation, I will show what I have learned of the DIKW Ackoff pyramid (Ackoff, R. L. 1999) explains how to convert data of qualitative and quantitative information. How to apply what you have learned to get fresh insights and knowledge so that we can make decisions and achieve wisdom (Ackoff, R. L. 1999). We can collect data by creating a survey using Paul everywhere, websites, email, URL link, or QR code, Microsoft Forms, Survey Monkey code and others. We then turned the data into a summary, comparing it with Angela Lee Duckworth's secondary data from other students as well, so that she would gain some wisdom. Because electronic forms may circulate online, this is the most convenient approach to gather data in nowadays. Together with my colleagues at the university, conducted a survey using Microsoft Forms to find the data we needed. That research had aimed to understand how grit affects the academic level. Similarly, qualitative data provide information about qualities, but cannot be measured and displayed as numbers The Assignment Grit Survey asks students how much grit they have and what their highest academic level is. This question "What is your highest academic level?" was intended to find the quantitative data we needed for our research. The second question we asked was, "What's your score for grit", according to Angela's questionnaire.

Data and Information

Results from Paul Ranson's survey on
Average Grit Score for people with different
education levels
(conducted in January 2020)



This is what the data obtained in class looks like. However, this data does not make sense unless it becomes information. We receive the information after analyzing this data and accordingly we learn new knowledge. How do I turn this data into information?

Information that has gained interpretation derived from a connecting link.

This "meaning" may be useful, but it is not necessary. In computer language, a relational database makes information from the data stored in it "(Ahsan, S. and Shah, A. 1999). According to Ackoff (1999)," Information is contained in descriptions, answers to questions that begin with such words such as who, what, when, where and how much" (Ackoff, RL 1999).

So, to be able to compare it from our survey I have to answer two questions:

1. Is there a connection between the academic level and Grit?
2. What percentage are people who have the same academic level?

Data and Information

ID	What is the highest academic level that you have from the UK government?	What is your GRIT score from the Angela Duckworth survey?	
1		1	2,5
2		3	3,4
3		1	4,4
4		5	3,8
5		2	3,5
6		2	3,8
7		2	3,2
8		3	4,4
9		3	4,2
10		7	4,4
11		1	4,4

Following the relationship between academic level and the grit of the respondents in our survey, we find that are formed three groups of people which have almost the same level of academic skills.

The graph gives us good information on which to analyze to try to answer the questions we asked ourselves above in the presentation. As we can see, there is no relationship between the assessment of grit and the academic level. Regardless of their academic level, the majority of the people in our group have nearly the same grit score. We can see what the representative part of people is based on their academic degree by translating our data into information.

Comparison of Data



Analyzing this line diagram for the average grit score for people with the average grit score for people of various backgrounds educational levels, we can summarize that there is no relationship between Grit and academic level. We should not underestimate the fact that our study contains data from only 11 people. In our Digital Skills and Research Methods class, I learned that the information obtained is a variable constant depending on the number of participants in the surveys. January last year (2020) UWTSD students also did a similar study. They gathered their information in the same way we did. In this way, we can improve our understanding, analyse information, and gain more knowledge.

With a table, we can very easily compare our information.

Data and Information

How many people have the same academic level?		
Amount of people	Academic Level	% of people
3	1	27.27%
3	2	27.27%
3	3	27.27%
1	5	9%
1	7	9%

First, it is noticeable that the participants in the survey are a small number of respondents of our questions. This, in turn, reflects the results we have received. We also found that, according to our data, there is no link among grit and academic achievement. Is the result different in other studies? We cannot fail to notice that the majority of the participants in our study are on the same academic level. The majority of people in our survey have the same academic level. In our colleagues' research, most of the leading reviews are people with a 2 sense of achievement in primary education" (Ranson, P. 2020).

Angela Duckworth is an "amazing person" (Ranson, P. 2020). Her lectures have been watched with great interest by millions of people around the world. Her biography shows that she is extremely ambitious, a great enthusiast, she is passionate about her work related to people. She began his career in management consulting and taught for seven years to become a psychologist. She claims that students and learning should be viewed through a "motivational perspective" (Duckworth, A. L. 2013). Together with her team, Angela has done several studies in different places and with different contexts. They argue that "the important predictor of success is not social intelligence, good looks, physical health or IQ. This is GRIT "(Duckworth, A. L.2013)



We can observe that there is no link between academic achievement and grit based on the information we received From January 2020, the ratio is changing.

"The more sand you have, the more likely you are to have an advanced education" (Ranson, P. 2020)

I mentioned earlier that Angela Duckworth's experiment was done with more than 2,000 people from different backgrounds. A military study at West Point indicates that "more educated adults have a higher degree of grit than less-educated adults of equal age" (Duckworth, A., Peterson, C., Matthews, M., Kelly, D. 2007. Pp. 1099).

In companies, the data show that Grit was influenced by factors such as conscientiousness, emotional stability pleasantness and to a lesser extent through extraversion and (conversely) willingness to try new experience and a lesser extent influenced by race, gender, nationality, ethnicity and others.

(Duckworth, A., Peterson, C., Matthews, M., Kelly, D. 2007. Pp.1099).

Looking at the data from graphs and surveys, we understand that the UWTSD collection from January 2020 coincides with the data on grit. "The more grit you have, the more likely you are to achieve" (Ranson, P. 2020).



Grit

GRIT. ●

Angela Duckworth asks in-depth: "How do I build grit in my children and keep them motivated in the long run?" (Duckworth, A.L., 2013).

What I have learned so far clearly shows me that we need to enrich ourselves with knowledge and develop in many ways. We must be persistent, fight to gain knowledge and succeed in the future. What I have learned so far motivates me even more and makes me move forward boldly. Do not give up in the face of difficulties. To be an example for my son. This knowledge also makes me feel proud and give him guidelines for grit, ambition and success. I played Ted's Duckworth lecture to help him understand what grit meant. I believe in the power of grit! Now I realize that grit made me grow and be successful in the past. I am sure that grit will help me to be successful in the future.

Angela had told in her TED lecture about the study of another great author, professor Dweck, with her big truth "The power of believing that you can improve" (Duckworth, A.L.2013).

Angela says, I will quote "Talent does not make you spicy, grit is not related to talent" and one more citation "The best idea of building a grit in children is something called "thinking about growth" by Carol Dweck. (Duckworth, A. L. 2013).

Knowledge and Wisdom



In a growth mindset, challenges are exciting rather than threatening. So rather than thinking, oh, I'm going to reveal my weaknesses, you say, wow, here's a chance to grow.

— Carol S. Dweck —

AZ QUOTES

Professor Dweck researched by working with different groups of children who had difficulties at school. Only for one year working with them and they manage to achieve incredible success and development. Professor Dweck says this is because, I quote, "The meaning of effort and difficulty has been transformed" (Dweck, C. 2014). The system of certain attention and attitude towards them stimulates them to feel "smarter instead of dumb" (Dweck, C. 2014).

According to Professor Dweck, if there is enough motivation of people to work hard and make an effort to achieve their goals, they will be successful in any case. (Dweck, C. 2014) I hold the same opinion, although this is not the case in our study. I assume that it is because only 11 people answered the questions. So, the results may not be objective enough in our case.

Reflecting on Professor Dweck's study, Duckworth says, "if people work hard, they change and develop on their own" (Duckworth, A. L. 2013). This is the truth! I have extensive professional experience. I started working as soon as I successfully graduated from a professional technical school. I started from the lowest level, worked in shifts, did my best, read additional literature, developed skills, and gained self-confidence from what I had achieved. Later I decided that I would try to develop in another direction, and I did great. Honestly, I had never heard of grit or "thinking for growth" before, I had never heard of Angela Duckworth and Carol Dweck.



CONCLUSION

It is great to learn something new like this useful knowledge from this module. Anyone motivated enough and ready to take the time to learn new things will sooner or later develop and have better self-esteem. The motivation we have to achieve great goals is the force that moves us forward. The power that makes us survive and keep evolving. Even if you do not achieve international success, the way you live can affect others around you.

The goal of achieving a certain success will help you live more purposefully and will give even more meaning to the things you do. This in turn will give you even more strength to deal with the difficulties you face every day. The successful person sets clear goals and directs the energy to achieve them. Success is different and strictly individual for everyone, but majority people accept that it is the fulfilment of achieving a specific objective of achieving a certain outcome. In general, I came to the final results: one must understand what that means to be effective according to their standards, and when he meets the requirements and makes the required measures, he will be successful. In my opinion, being successful is a very relative concept. Even if we achieve something desired, one always wants more and more, something different. Besides, it seems normal to usually have the suspicion of missed opportunities. It seems to me that each person has a different definition of the word successful.

In my opinion, it is more important to be in spiritual balance, to be with the feeling that we live as we want, not to force our inner self in any way. If I have to choose between success and happiness, I will always choose happiness because I am not sure that successful people are necessarily happy.

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