







# What is the Chunking Technique?

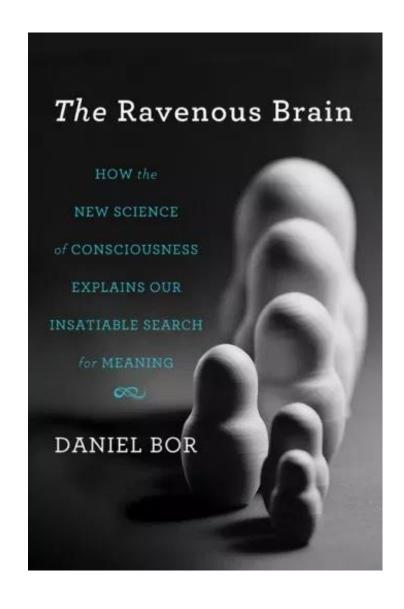
- It is a technique which can improve your memory.
- Chunking is the process of taking individual pieces of information (chunks) and grouping them into larger units.

By grouping each piece into a large whole, you can improve the amount of information you can remember.



#### The Science of chunking

Daniel Bor, author of The Ravenous Brain states that chunking represents our ability to "hack" the limits of our memory.

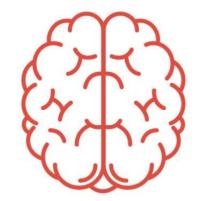




#### **Experiment: The Power of Chunking**

- An undergraduate volunteer took part in a psychology experiment.
- He had an average IQ and memory capacity.

- Researchers read to him a sequence of random digits and asked him to say the digits back in the order he'd heard them.
- If he was correct, the next trial sequence would be one digit longer; if incorrect, one digit shorter.



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#### **Experiment: The Power of Chunking**

The twist....it took place over two years, where the young man did this task for an hour a day four days a week.





#### The Experiment: What happened?

Initially, he was able to

20 months later, he was

## How did he do this?

sequence

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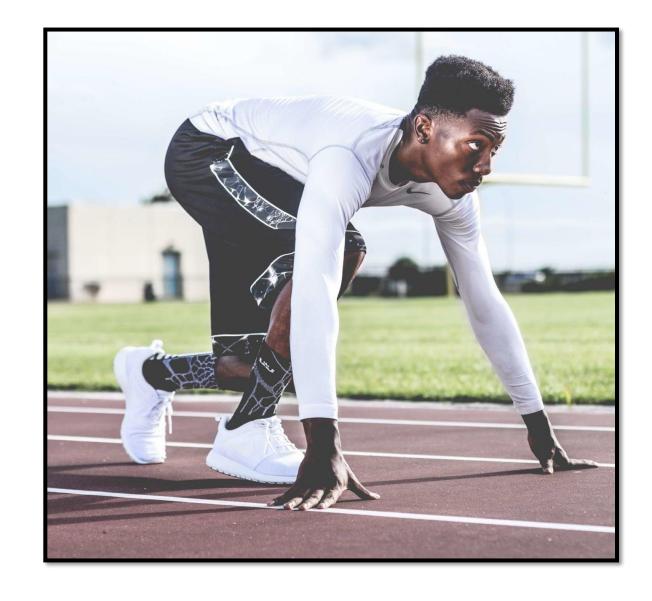
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#### The secret of chunking

- The young man was a track runner.
- He decided to see certain number groups as running times, for instance, 3492 would be transformed into 3 minutes and 49.2 seconds - around the world-record time for running the mile.
- He was using his memory for wellknown number sequences in athletics to prop up his working memory.





#### The secret of chunking

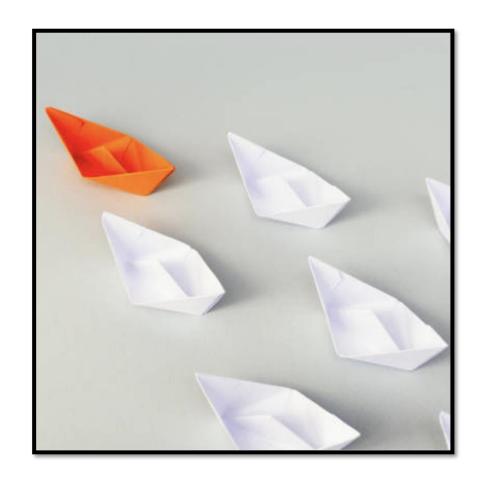
He then realised he could combine each running time into a superstructure of 3 or 4 running times — and then group these superstructures together again.

He just learned to cram more and more into each item in a pyramidal way, with digits linked together in 3s or 4s, and then those triplets or quadruplets of digits linked together as well in groups of 3, and so on.



#### Why is 'chunking' useful?

- Our memory system becomes far more efficient.
- Help you to recall the relevant information in your exams.
- Information becomes easier to retain and recall.
- Improves our creativity.





## The chunking process

- 1. Break down larger amounts of information into smaller units.
- 2. Identify similarities or patterns.
- 3. Organise the information.
- 4. Group information into manageable units.





### The chunking process

Use **HEADINGS** and **TITLES** for different sections

Use TABLES to summarise

LARGE AMOUNTS of DATA

Use **BULLET POINTS** to summarise and **CLARIFY IMPORTANT POINTS.** 

Combine quick ILLUSTRATIONS
with TEXT to create VISUAL
ASSOCIATIONS.



#### Top tips to effective chunking

#### 1. Practice:

- Challenge yourself to remember lists of things such as vocabulary words or important dates.
- As you become better at remembering larger chunks of information, continue to challenge yourself to remember even more.

#### 2. Look for Connections:

- As you are creating groupings, look for ways to relate them to each other in meaningful ways.
- Think about what they have in common and what makes sense.



## Top tips to effective chunking

#### 3. Associate:

Linking groups of items to things from your memory can also help make things more memorable.

# 4. Incorporate other Memory Strategies:

For example, you might use mnemonics as a way to chunk different units of information. If you need to remember a list of things—such as buying **figs, lettuce, oranges, apples, and tomatoes**—you can create a word out of the first letters **e.g. "FLOAT".** 

Once you remember the keyword, you will then be better able to recall the items represented by each letter of the acronym.



## Top tips to effective chunking

#### 5. Separate your revision

- Separating revision into relevant sections can help you digest everything and you can remember it more easily.
- If you can create **links** between different bits of information and put them in meaningful categories it can help you remember them better.





## Reflect

How can you use the concept of chunking in your revision this week?

What types of information may this approach be most useful for?



# Form patterns Develop your tactics

Make connections



