

The Brain Behind The Room

Neuroscience Secrets for
Smarter Facilitation



Hi, I'm Dee Scarano



Agenda

Neuroscience Secrets for Facilitators



Why Participants Disengage

Or *do* they?



Activating The Creative Zone

How to activate 'the zone' on demand



Applying Psychological Safety

How (and when) to apply specific methods

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Neuroscience Secrets for Facilitators



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The Neuroscience Of

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Terminology

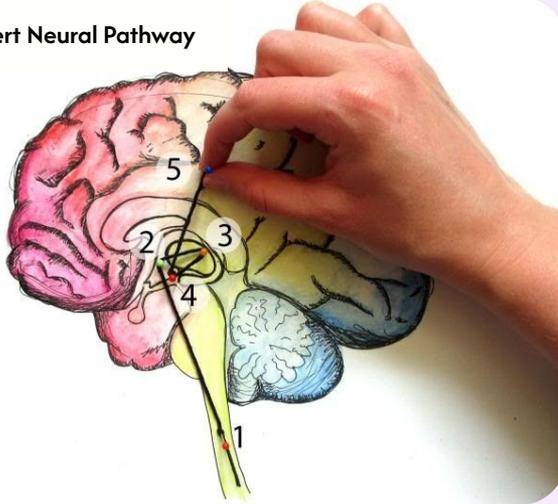
Neurotransmitters

Chemical messengers that pass information around our brain and nervous system.

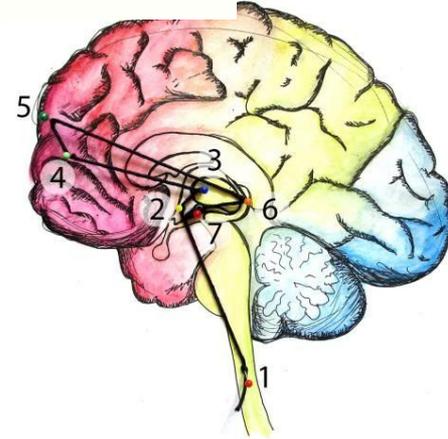
They **influence functions** ranging from movement and sensations to emotions and **thoughts**.

Internal vs External

Shorter Extrovert Neural Pathway



Longer Introvert Neural Pathway



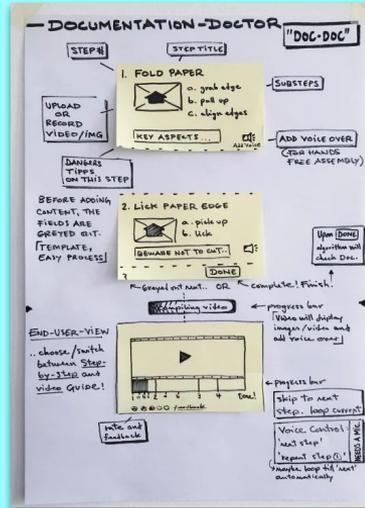
“Speed of thinking is influenced by which pathway is more dominant; dopamine facilitates faster, reward-focused thinking, and acetylcholine supports slower, deeper internal reflection.”

Practical Application

E.g. Critical Solution Sketch Activity

Alternatives for Thinking Fast or Slow

Design activities with intention - to support fast ideas or slower, deeper thinking.

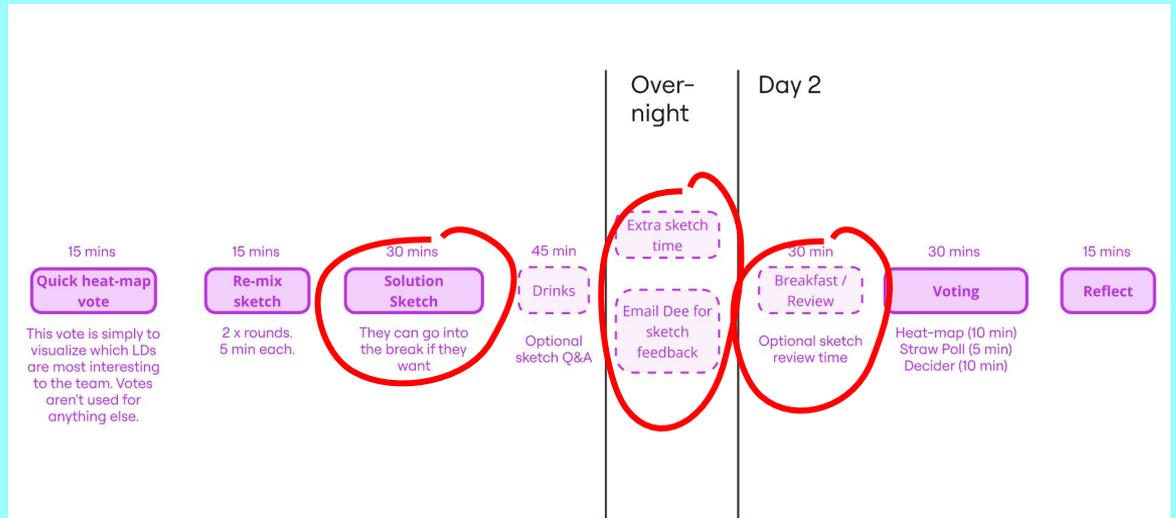


Practical Application

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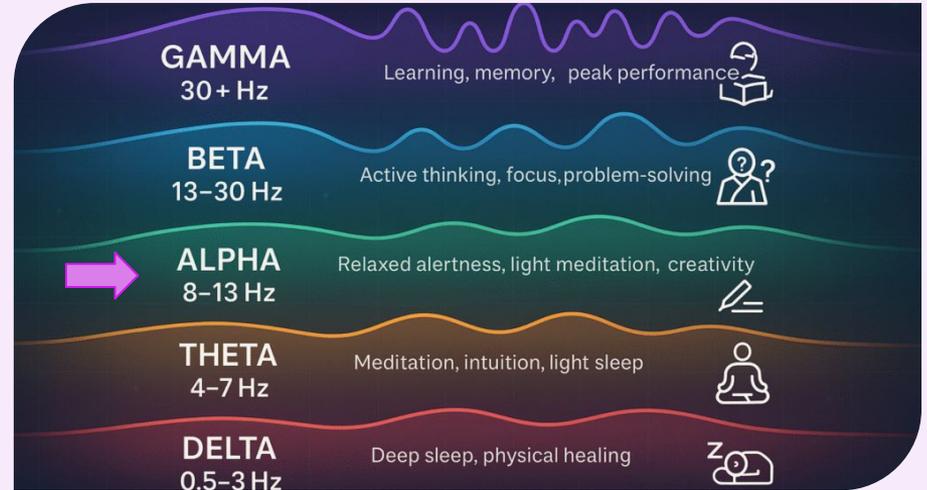
The Neuroscience Of

Activating The Creative Zone



Alpha Brainwaves

The Creativity Brainwaves



Alpha waves are prominent during **wakeful relaxation** and are associated with states of relaxation, present-moment awareness, and **internal creativity**.

The Default Mode Network

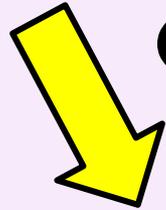
The Neural Network of Creativity



“The DMN becomes active when the brain is **not engaged in external tasks** and switches to **internal mind-wandering** thoughts like memories, self-reflection & imagination

“Creativity”

=



Creative Ideas + **Problem Solving**

(Idea **Generation**) + (Idea **Evaluation**)

Idea Generation

“Involves delving deep **into our existing knowledge** for the seeds of inspiration.

Perhaps by drawing connections from completely **different domains.**”

Idea Evaluation

“Applies a more critical eye to **choose ideas** that will best **suit our goals.**”

Practical Application | Creative Zone

1. Priming

Pre-load the ideal
conditions for creativity
before the stakes are high.

- Internal reflection
- Mind wandering
- Imagination

Quiet Reflection

E.g. Solo thinking and internal reflection
without a problem-solving goal



Journaling

E.g. Free association of whatever comes
to mind based on a simple prompt



Practical Application | Creative Zone

2. Presencing / Mindfulness

Use short activities to
enable “Emptiness” and
activate Alpha Waves and
the DMN

10-min solo walk

Focus on nature & senses (present moment)



Guided mindfulness

E.g. 3-min presencing exercise



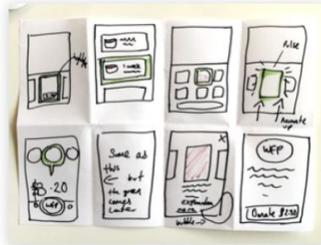
Practical Application | Creative Zone

3. Separate each Activity (and use scaffolding)

Design your agenda with intention to support each neural process, and build into the zone.

E.g. From the Design Sprint

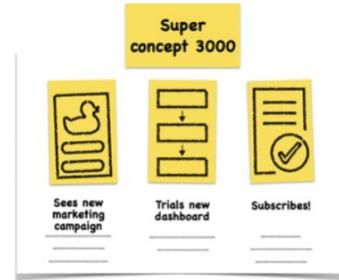
Crazy Eights



Imagination

Default Mode Network

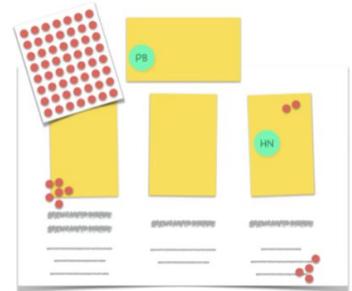
Solution Sketch



Focus, refining ideas

Dorsal Attention Network

Voting



Decision Making

Executive Attention Network

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Applying Psychological Safety

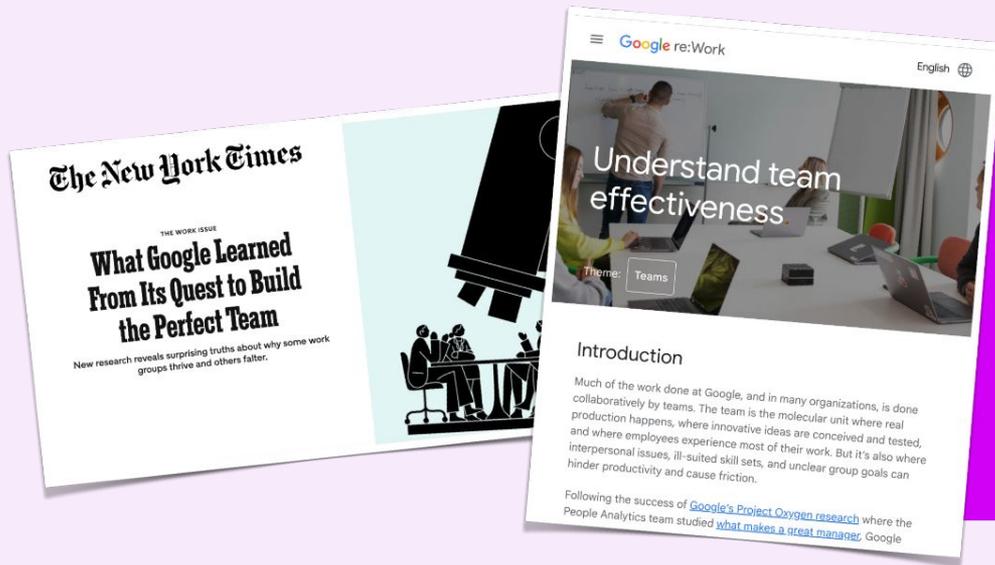
How (and when) to apply specific methods

Applying Psychological Safety



Psychological Safety

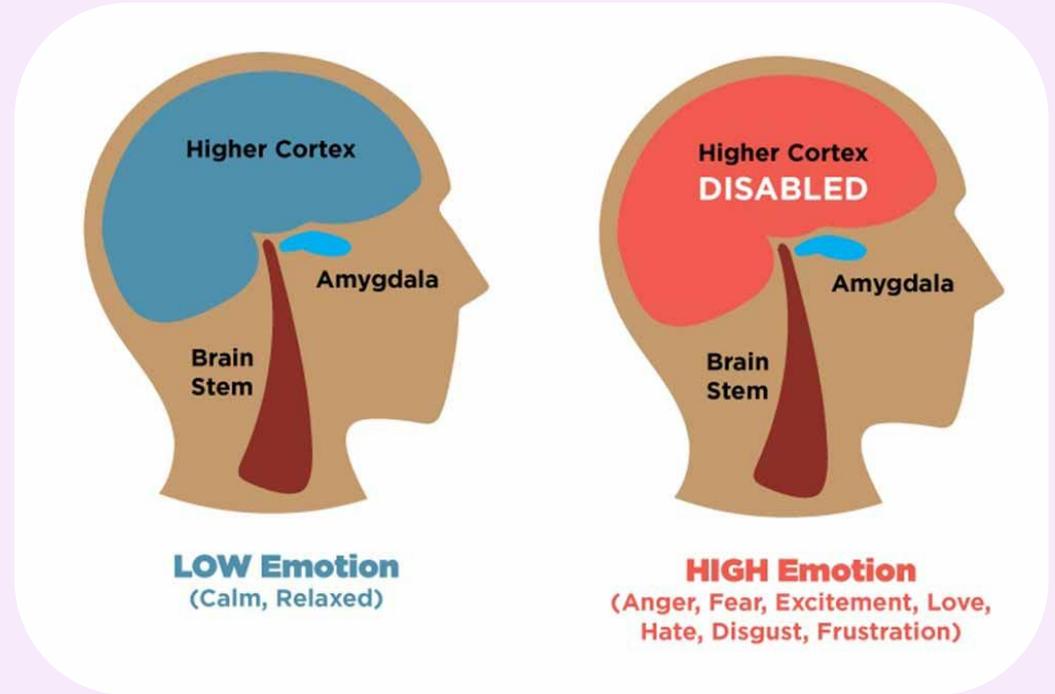
“**Feeling safe** in a group to **take risks or speak up** with ideas, questions, concerns, or mistakes **without fear** of being judged or punished.



Google study 2012: “The single most critical factor in team success”

- 🚀 20% Faster project success
- 🚀 31% More innovation
- 🚀 360% Job satisfaction

Fight or Flight?



Psychological safety minimizes amygdala-driven threat responses, enabling higher cognitive function, creativity, and collaboration by fostering a secure, non-threatening environment.

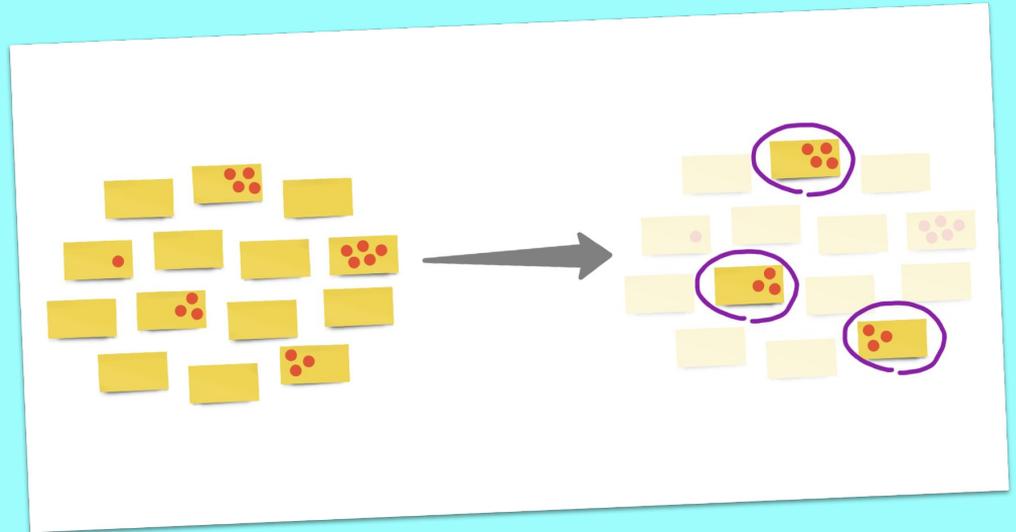
Practical Application | Psychological Safety

1.

Use Together / Alone Methods

- Everyone's opinions are heard
- No-one person dominates
- Subjective opinions → become measurable group decision
- No criticism! (only up-votes)

E.g. Note & Vote instead of an unstructured debate



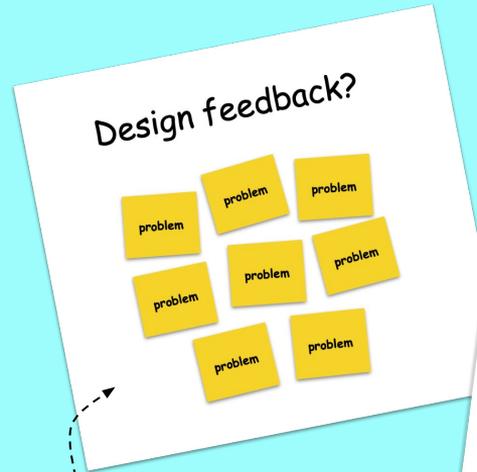
Practical Application

Psychological Safety

2. Anonymous input

- Ideas are assessed, not people
- When fear of judgement is removed input becomes more honest, more ambitious, and more creative.

All stickies same colour



Practical Application

Psychological Safety

3. Standardized formats / templates

- Reduces unnecessary mental load
- Avoids “blank page” anxiety
- Levels the field. Participants don't feel overshadowed.

All contributions follow
the same layout
(e.g. drawing ability is not judged)



E.g. follow the formula for
'Design Critique'
(no unhelpful comments)

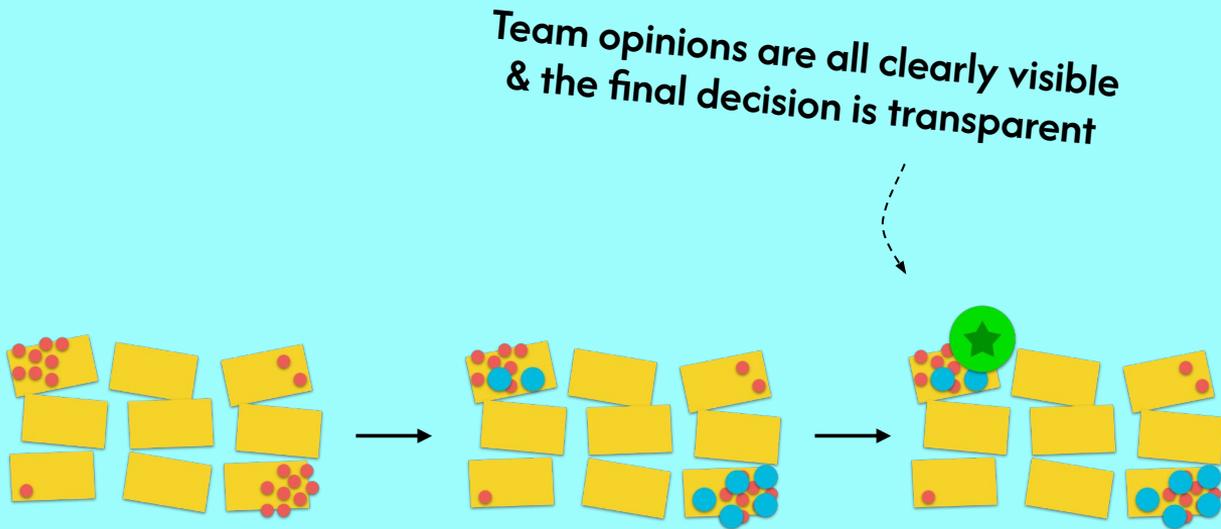


Practical Application

Psychological Safety

3. Scaffolding e.g. with voting

- Layers of voting to support decision making.
- Everyone's voice is visible.
- Decisions are transparent.



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Let's Talk Activities!

How do you design your exercises with intention?

Scaffolding to build to a peak moment?

Priming before creative exercises?

Alternatives for fast (external) and slow (internal) thinkers?

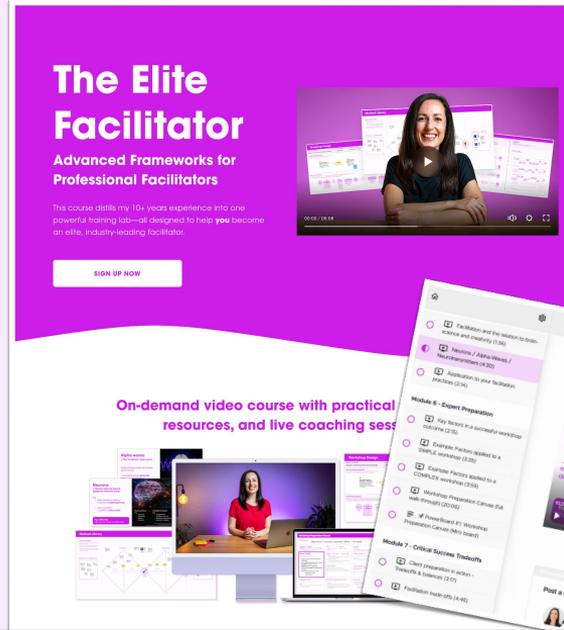
Templates vs free-form?

Anonymous vs not?

Add me on LinkedIn :)

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hello@deescarano.com



The Elite Facilitator

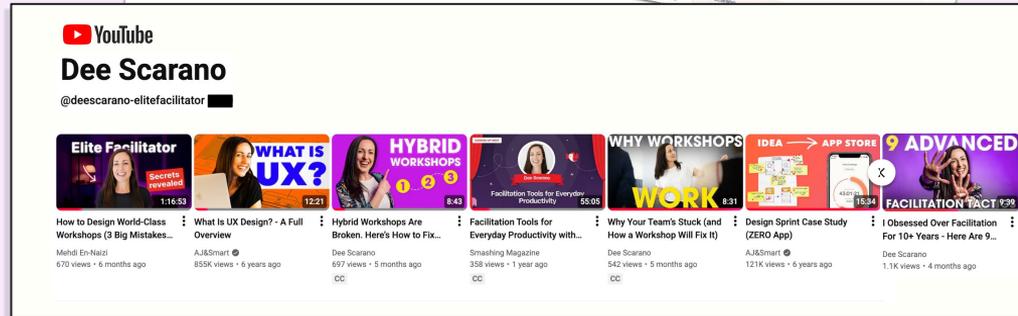
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