The Creative Process

The 3-S Model

Recap

- History of Creativity
- Contribution of Guilford, Maslow, Mihaly
- Defining Creativity (Making something Novel and Useful)
- Types of creativity

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Poll

A software engineer working on building a new operating system as a “hobby”

a. Mini C
b. Pro C
c. Big C

Poll

- A man makes Math tutorials to help his school going cousin using a doodle software

a. Small c
b. Mini c
c. Pro C

The Path to Big C….

Linus Torvalds

Sal Khan

From: torvalds@klaava.Helsinki.FI (Linus Benedict Torvalds)
Newsgroups: comp.os.minix
Subject: What would you like to see most in minix?
Summary: small poll for my new operating system
Message-ID:
Date: 25 Aug 91 20:57:08 GMT
Organization: University of Helsinki

Hello everybody out there using minix -

I'm doing a (free) operating system (just a hobby, won't be big and professional like gnu) for 386(486) AT clones. This has been brewing since april, and is starting to get ready. I'd like any feedback on things people like/dislike in minix, as my OS resembles it somewhat (same physical layout of the file-system (due to practical reasons) among other things).

I've currently ported bash(1.08) and gcc(1.40), and things seem to work. This implies that I'll get something practical within a few months, and I'd like to know what features most people would want. Any suggestions are welcome, but I won't promise I'll implement them :-)

Linus (torvalds@kruuna.helsinki.fi)

PS. Yes - it's free of any minix code, and it has a multi-threaded fs. It is NOT protable (uses 386 task switching etc), and it probably never will support anything other than AT-harddisks, as that's all I have :-(.

COVID-19 school closure resources: Daily schedules for students ages 2-18 & remote learning resources. Want to help us help others? We are a nonprofit. Please consider making a donation to help us respond.

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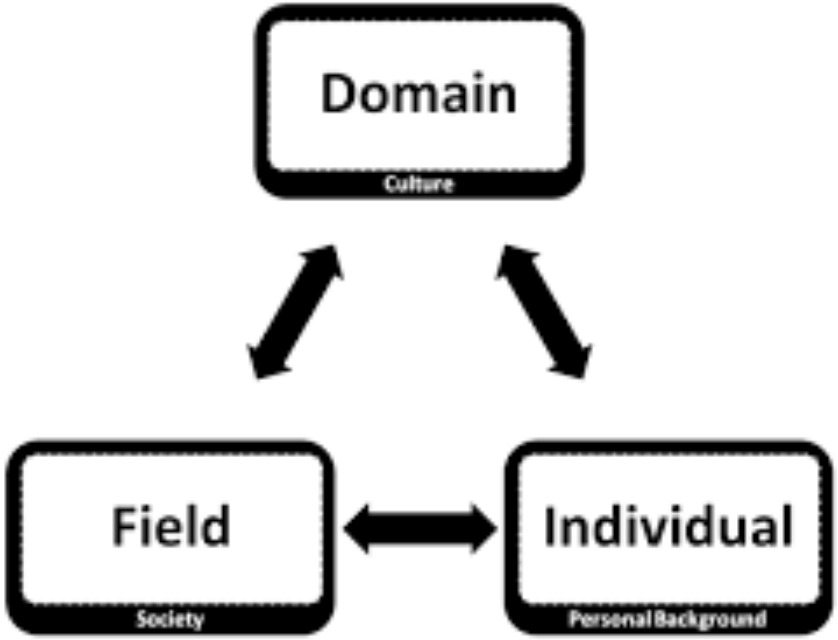
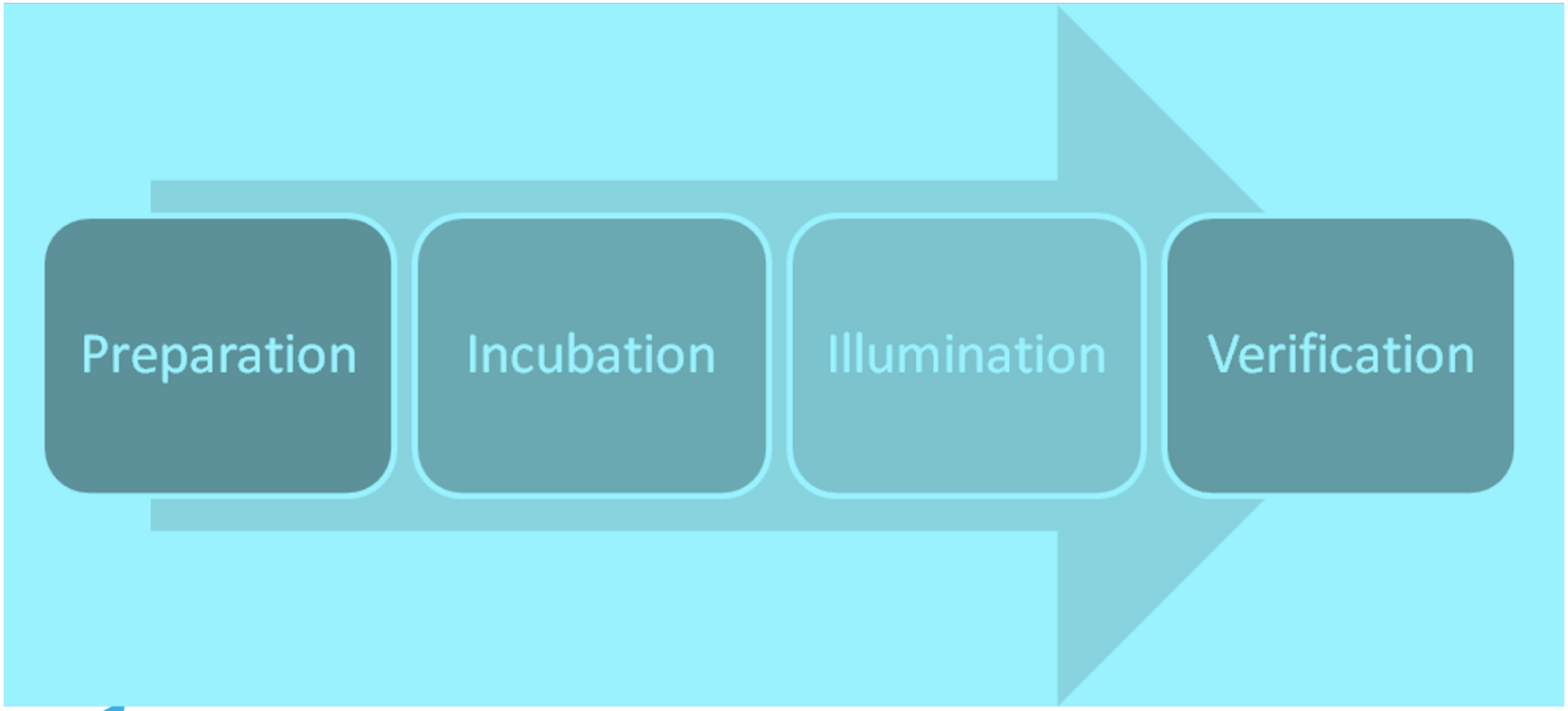
Is there a process?

The System's Model



The Classic Four-Stage Model of the Creative Process (Graham Wallas)



1.

Preparation

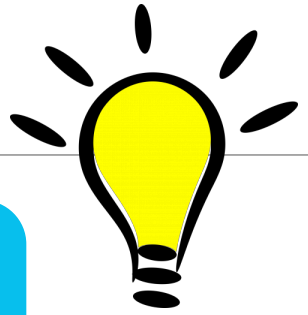
- Define Problem
- Identify flaws/ gaps
- Set Parameters
- Research/ Gather Information
- Conscious Effort

2.

Incubation

- No Active Thinking
- Taking a Break
- Sub Conscious
- Trains of Association
- Few minutes to few years!

3.



Illumination

- Discovery or Breakthrough
- The Aha Moment
- Subconscious
- Sudden and short lived

4.

Verification

- Compare results to Criteria
- Revise/ Refine
- Conscious and Deliberate

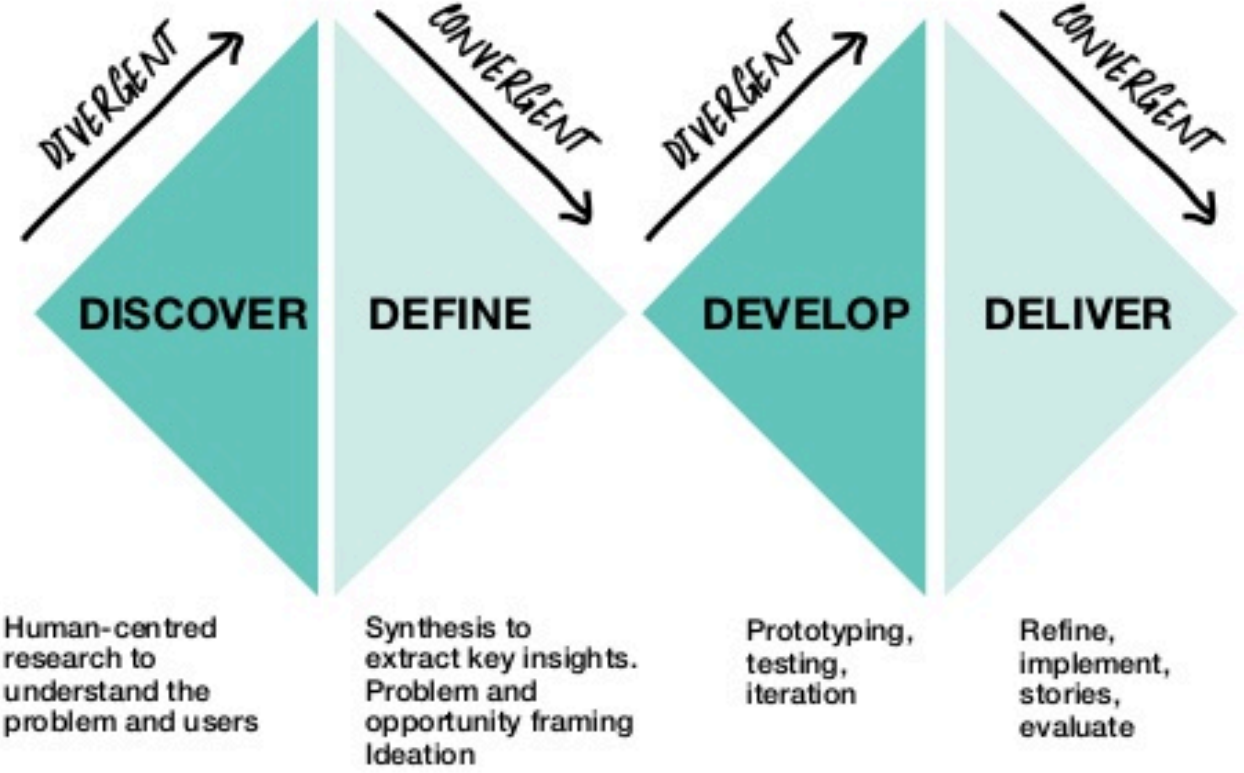
5. & 6.

Production & Evaluation

- Commercialization
- Feedback
- Conscious and Deliberate

The Creative Process

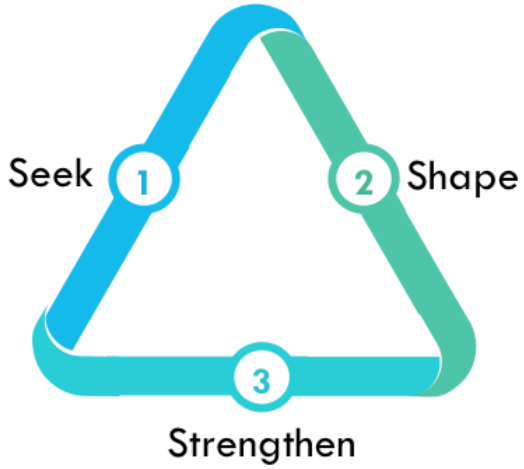
Some Alternate Models



Design Thinking

The 3-S model

A unique framework for personal creativity using techniques employed by artists



5 art domains – 15 Techniques

Learning creativity from…

- Photography
- Music
- Drawing
- Writing
- Science

Seek- An Artist's Mindset

> *All true art is literally a mirror of the artist's mind*

- Mindful observation
- Visualization
- Empathy
- Perspective
- Curiosity

Strenghten- Creative Skills

> Very many people go through their whole lives having no real sense of what their talents may be, or if they have any to speak of
>
> The gardener does not make a plant grow. The job of a gardener is to create optimal conditions

Sir Ken Robinson

- Creative excellence
- Copying to learn, copying to create
- Whole Brained Creativity

Shape – Your Creation

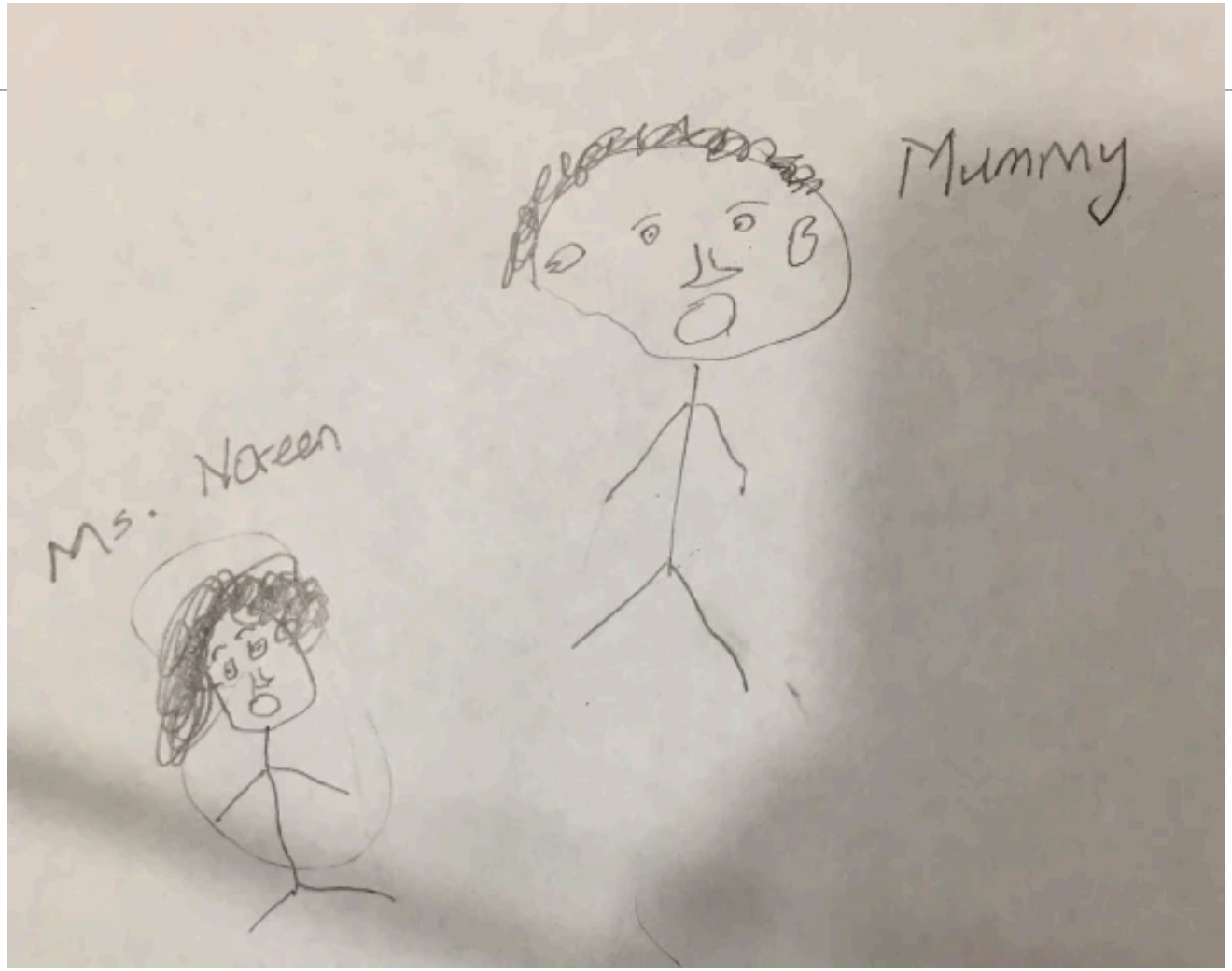
“To be creative you actually have to do something.”

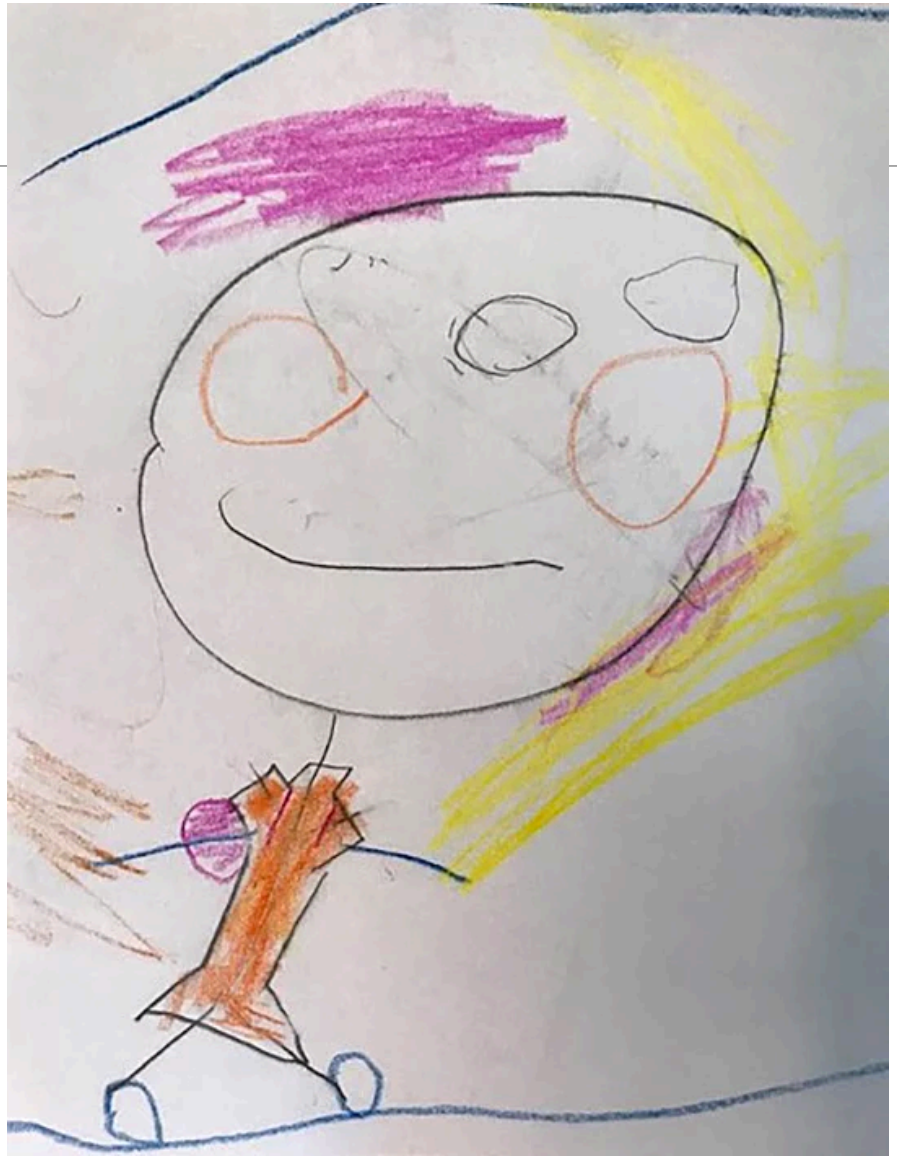
~ Sir Ken Robinson

- Stream of Consciousness
- Combining and Recombining
- Scope and constraints
- Collaborating
- Building upon work of others
- Adding a twist
- Overcoming creative blocks

Exercise

- Draw a leader

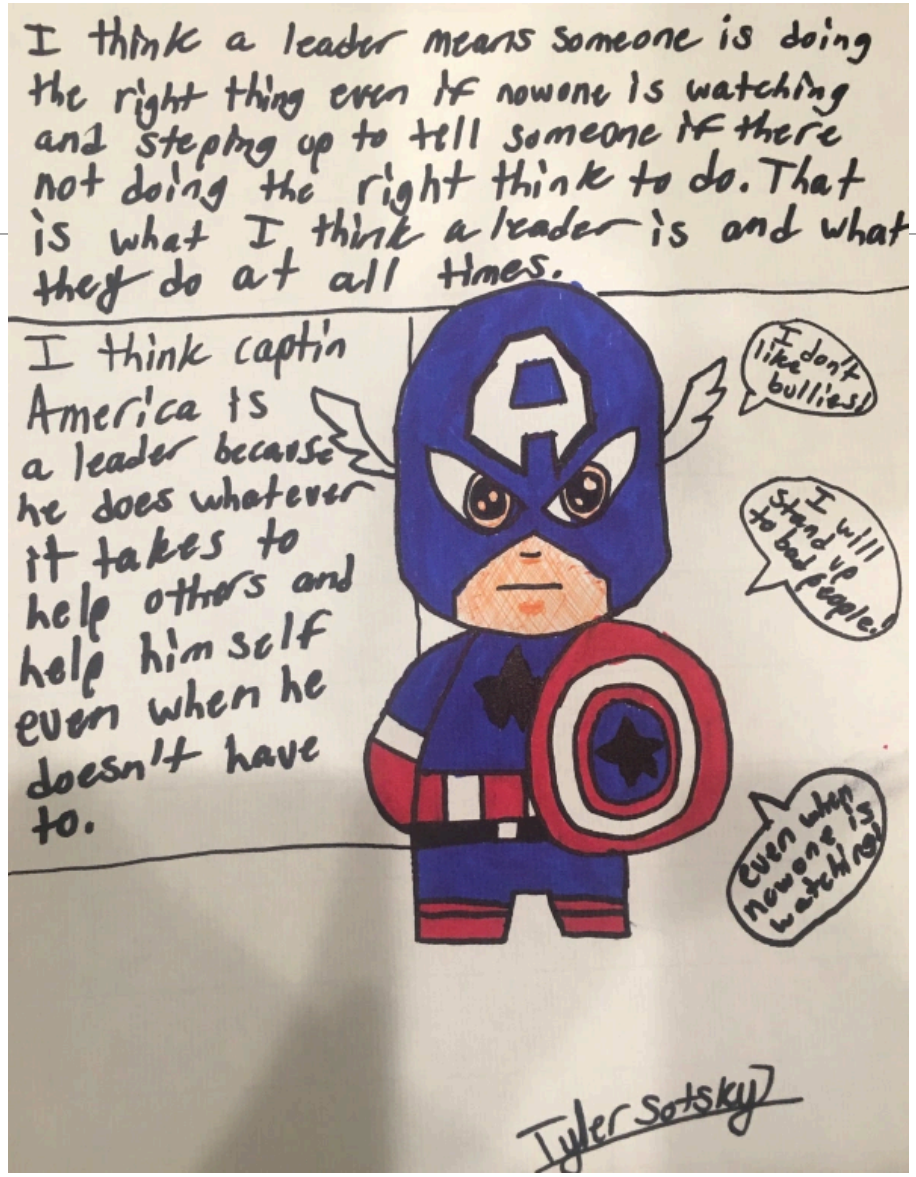

Mummy
Ms. Noreen



DO you need help

Hi, my name is Bill

Here you go
thank you
You've made my day!


I think a leader means someone is doing the right thing even if nowone is watching and steping up to tell someone if there not doing the right think to do. That is what I think a leader is and what they do at all times.
I think captin America is a leader because he does whatever it takes to help others and help him self even when he doesn't have to.
I don't like bullies!
I will stand up to bad people!
Even when nowone is watching!
Tyler Sotsky

WE CAN DO IT!
MY LEADER IS...
• STRONG
• CARING
• ORGANIZED
• ABLE TO BOUNCE BACK FROM MISTAKES
• FUNNY
• ABLE TO ALSO LISTEN
• CREATIVE
• NOT AFRAID TO SAY WHAT SHE IS THINKING
• ENCOURAGING
• NOT A PROCRASTINATOR
• A BOOK LOVER
• THINKS OUT-SIDE THE BOX
ROSIE REVERE HEADBAND
BOOK
BOOK
BOOK

Food for thought

How and why is the creatitve expression of children different from adults?