Async brainstorming

A brainstorm method tailored for async collaboration

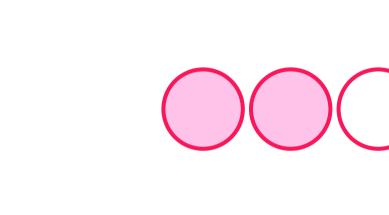
INTRODUCTION

Design an inclusive and effective brainstorm with this template tailored for async collaboration. These activities are great when calendars are packed, participants can't meet live because of time zone conflicts, or when you just want to give collaborators more time to think about their ideas.





1-2 hours





Difficulty Intermediate

AGENDA

- Define your problem statement
- 2 Brainstorm
- **Group ideas**
- 4 Prioritize

PREPARATION FOR ASYNC WORK

Before sharing this mural with collaborators, review the facilitation recommendations for async projects. Then, define the problem statement and fill out section 1.

Provide collaborators with a timeline for each phase of the brainstorm — then explain the activity checkpoints below. Consider recording a quick explainer video, if collaborators are unfamiliar with async collaboration.

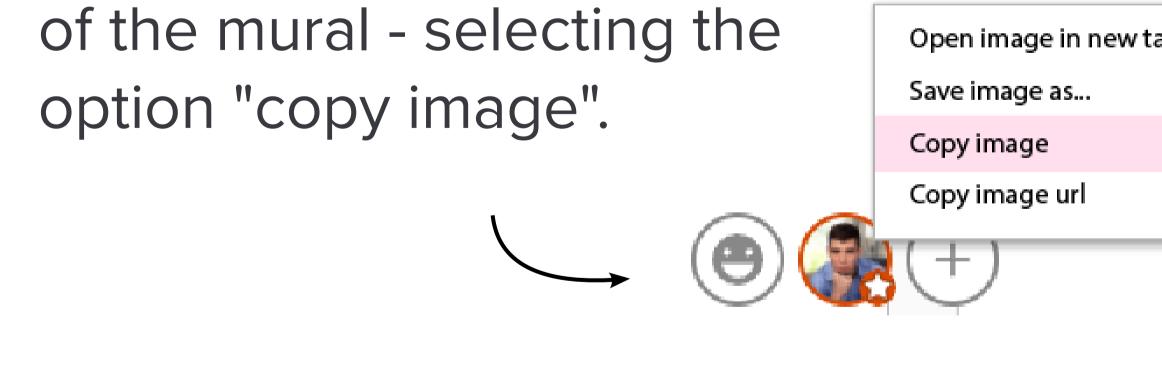




ACTIVITY CHECKPOINTS

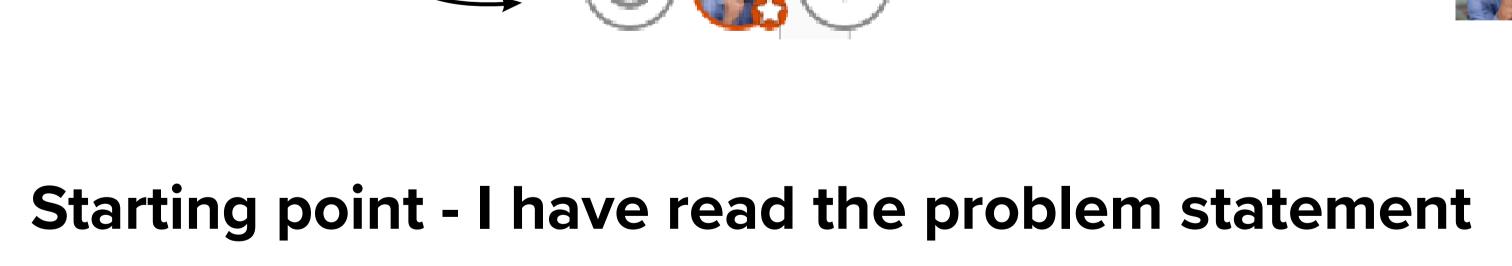
Add your profile picture here to help track the team's progress. After you finish an activity, move your avatar below.

You can easily add your profile image by right-clicking your avatar in the lower part



Left-click any part of the mural and paste the image with ctrl (cmd) + v.

Hello!

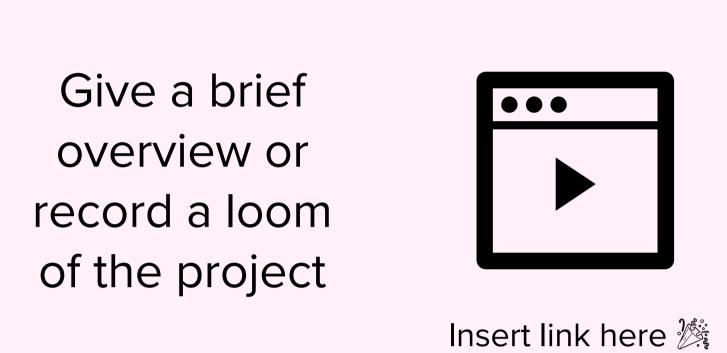


Define your problem statement

What problem are you trying to solve? Frame your problem as a "How Might We" statement. This will be the focus of your brainstorm.

The problem statement is to classify the handwritten digits. The goal is to take an image of a handwritten digit and determine what the digit is. This digits range from zero (0) through nine (9). It is a hard task for the machine because handwritten digits are not perfect and can be made with many different shapes and sizes. The handwritten digit recognition system is a way to tackle this problem which uses the image of a digit and recognizes the digit present in the image.





Brainstorm

Write down any ideas that come to mind that address your problem statement. Remember, the key rules of brainstorming are:

- **Advice**
- Defer judgment Go for volume
- Build on the ideas of others
- 📡 우Stay on topic
- Encourage wild ideas Be visual
- PRO TIP: Select a sticky note and click the pencil icon in the menu to sketch.



Brindha			Dhivya Bharathi			Divya			Sathya		
online characters suffer from dynamic of poor feature selection	slow convergence	affect training time	lack of recognition accuracy	complexity of noise from data	variations in character styles	variations in mood of writers make it difficult	heavy-tailed distributions	no sufficient mechanism to effectively manager uncertainity	Pattern analysis is complex	very limited number of characters is offered by this	difficult of broken of touch charac
Huge variability form person to person	Cursive handwriting makes seperation and recognition is challenging	Difficult due to heavy printing resulting from the typewriter impact	The issue is that there's a wide range of handwriting-good or bad	This makes it tricky for programmers of how every character might look	Heavy-tailed distributions remain a major challenge for modelers	Alpha numeric characters are not recognised well	difficult due to shape variance and skewing	Collecting a good labelled dataset to learn is not cheap compared to synthetic data	Poor quality of source document due to degradation over time	There is a probability of the potential of collapse	Difficu predict the behavio complex s
The sheets must be placed properly in tray	Otherwise it would unnumbered the scanning	Difficult to recognize the digits in the image	Handwriting style of an individual person varies	There is no possibility of obtaining information about the type of the input	Stress on some parts of numbers	Huge ambiguity of strokes from person to person	The handwriting must be dark enough	Otherwise it would be hard to read the data and generate a report	It is more expensive method of data entry	It is not done in real time as a person writes and therefore not immediate text input	Need develo efficio algori
Brindha			Dhivya Bharathi			Divya			Sathya		
Helps to transform the writings in the papers to a text document format	mainly used in banking sector	Large quantities of text are often input quickly	Ability to scan the characters accurately	CNN network is used	Moreover it takes less time to convert within the electronic form	Online and offline detection is available	Information can be readable with high degree of accuracy	Very accurate and may produce reasonably top quality images	Online procedure is easier than offline procedure	100% Text- searchable documents	It is in e form w straight to sto send b
AHD fulfill the need of today's business world need	Removing background using machine learning algorithms	The process is much faster	Handwriting recognition is important for genealogy	Using higher- quality images that are easier for character recognition as inputs	Feasible for large volume of data set	It is fast	Easy to implement and support	The latest software can re- create tables also as original layout	Cost effective	Used to verify the originality of paper documents	The ge mode per recogniti segme
Greater security technology	Printed characters can not be	Improving photography practices	The document is not easy to	Processing of information	Advanced version can even recreate tables, columns and even produce	Developing more advanced recognition algorithms to manage task	It is cheaper than paying amount to manually enter great deal of text	State of art strategy	Inspite of rough handling, one can read the information with high degree of	Designing documents in this is a	Flexi

Group ideas

The facilitator should group all the ideas from the brainstorming process (step 2).

After that, you should add your opinions by adding arrows to point ideas into other groups and sticky notes and icons to share your thoughts.

PRO TIP: This is a great place to use color coding. You can change the color of multiple sticky notes at once.

It involved Machine learning methods like Hidden Markov Models(HMM) SVM etc.

Feature extraction step varies for every individual language and hence is not scalable

Used to augment the existing datasets.

Training sets are used to train and adjust the weights of Artificial Neural Network

The performance of artificial learning models is pretty limited due to manual feature extraction phase and their limited capacity of learning.

With the advent of deep learning came tremendous improvements in accuracy of handwriting recognition.

Al requires a lot of data to train while obtaining huge corpus of labelled handwriting images for different languages is a cumbersome task

Prioritize

The facilitator should copy and paste the groups from step 3 into this area and setup the vote details.