CHEERS!

Individual Project

## Keywords

Interactive design, Arduino, Processing, Digital Hardware

## Brief Introduction

The interactive design using sound, lights, and buttons to create an inter-personal interactive relationship at a bar while still following the social distancing
rules


## BACKGROUND

In the year of 2020, CovID-19 Pandemic has greatly affected people's daily life in all means. Many countries have implemented social distancing and "stay-at-home" orders to contain the virus outbreak, The preventative practices include:


While these practices are proved to be effective methods to slow the spread of the virus. However, at the same time, most people's social
activities are greatly impacted.

## Bar in the Context of COVID-19 Pandemic

As public businesses are in the phase of resuming operations, social distancing guidelines are still essential to keep everyone safe.
In order to observe the pandemic's impacts on people's social life, I choose bar, a popular social place, to be the observing subject. In order to observe the pandemic's impacts on


Many were closed, the ones left are strictly following social distancing guidelines, which were difficult to social between strangers.

Ethnomethodology
Ethnomethodologys the study of the knowledge of the common sense of how ordinary people make sense of their everyday world, it includes the
analysis of social organization, spatial organizations of interaction, and embodied interaction.

Environment
The bar we observed was a small beer and cocktail bar
Sound: Loud background music
Members
At a bar, there are two types of social bonding take place:
Between Friends $\quad$ Between Strangers


## Design goal

The goal is to rebuild the inter-personal interactive relationship at a bar while still following the social distancing rules, using digital technologies.

## ETHNOMETHODOLOGY

Social Organization Analysis

## Rule－based model

According to Parsons，people are controlled by norms and values of behavior：cultural values and social structures．People learn the them through instruction or experience．By using the rule－based model we can understand how people＇s behaviors are defined inherently，

## Rules



ETHNOMETHODOLOGY
Spatial Organizations of Interaction Analysis

## F－formation

We applied the F －formation system on the observed spacial organizations
within a bar Formation is an actively maintained arrangement of people th Within a bar．Formation is an actively maintained arrangement of people th frames an interaction－－－distinguishing particicants from others and helps
participants to maintain a common focus of attention（Kendon，1996）．
In the F－formation system，each person has a＇transactional segment＇which is In the $F$－formation system，each person has a＇transactional segment＇which is
framed by the orientation by the position $\&$ orientation of body；in conversa－ tion，people arrange their transactional segments in a joint transactional space： the Overlap or O－space．
Using the F－formation system，we can understand the spatial arrangements when people interact and what they imply．

Kendon：Basic F－formation System


Norms


Do not fight


No drugs

Common sense


Behave yourself


Buy drink to
make new


Better to not
isturb couples

## ETHNOMETHODOLOGY

Spatial Organizations of Interaction Analysis
F-formation of Spacial Organizations within a Bar
Observing the entire spacial organizations can help us how to design for the whole setting.


## ethnomethodology

Embodied Interaction Analysis
Social Interaction Flow
We are analyzing how a social interaction begins, continues, and ends, what resources did the participants use to explore the social signals, and to understand the mechanism of the social interaction in this setting

Get seated
Drinks are here
Sit for a while
Before leaving


Run out of topics, most
members looking at phones. $\because$


The design concept is to re-shape the F-formation system of social organizations within the bar: change from two
The design concept is to re-shape the F -formation system of social organizations within the bar: change from
independent, non-overlapping spaces to create a new mutual overlapping space which connect two groups.


Our installation will create a new overlapping space between tables, and build an interactive connection opportunity between strangers while keep social-distancing.


The other customer will put the drink glass on the other cup-holder; both table's The other customer will put the drin
cup-holders and arrows are on now.

Each table's LED strip will be lighten up, and both will reach to the middle to make "connected" effect; a glass clicking sound will be playing from each table's speaker.



STEP 3: Soldering the LED strips to be an arrow shape; covered by plastic boards.


STEP 2: Design and attach the cup-holders' sufface with comprehensible notice


STEP 4: Connect all the wires with breadboard and Arduno


The cup-holder is blinking to attract customer's
attention.


Both tables
cup-holders and
arrows are arrows are
lighten up.

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