# Samsung S20

**Mobile Phone Camera Experience Design for Millennials** 

# Team











Virj Kan

UX Strategist

**Carl Nolting** 

UX Lead

Sean Bornheimer

UX Director & Product Manager Nathan Folkman

UX Engineer & Director



UX Designer

# My role & contributions

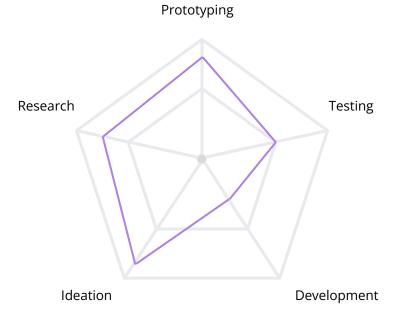
### UX Research

3 guerrilla interviews, 3 in-studio interviews), comparative studies (camera modes), conducted 5 usability testing sessions

• Facilitated two brainstorming sessions.

### Prototyping

Created low-fidelity & high-fidelity prototypes using Sketch and Unity 3D (interactive camera concepts)



### **The Problem**

In 2019, Samsung's internal research indicated **Customer Satisfaction Index (CSI)** for Samsung Galaxy S9 phone camera with **just 1% increment** from previous year (2018, CSI: 81).

This is **low in comparison** to its competitor and also given that Samsung had far better hardware and software features delivered with the phone camera.



# **Empathize & Discover**

#### TARGET AUDIENCE

### Who are the users?

### Millennials in the U.S.

Age 18 to 36 (Born between 1982 - 2000) We chose millennial users as they are the high impact group and avid smartphone users.

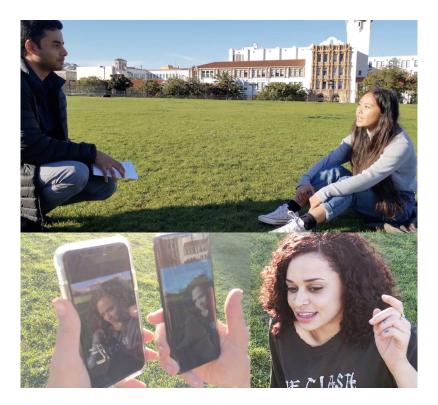
We approached with a goal to uncover core values that drive appealing experiences for millennials.



#### PRIMARY RESEARCH

# Semi-structured & Guerrilla interviews

We interviewed 12 millennials to understand their smartphone camera use, preferences, what motivates them and what do they value in terms of photo capture experience.



#### SECONDARY RESEARCH

# **Comparative Analysis**

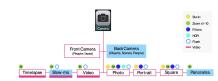
We uncovered insights about how Samsung phone camera experience was dependent upon Android and other third-party components

Evaluated camera modes usefulness & how they differ in serving millennial user group





Apple product ecosystem



Samsung S9 camera modes

iPhone X camera modes

# **Research Insights**

#### **ISSUES IDENTIFIED**

# Lack of authentic expression in photos taken using Samsung S9

By default the Samsung S9's selfie camera mode applied '**skin tone**' filter which resulted in photo losing original characteristics.





Samsung S9 portrait selfie

iPhone X portrait selfie

"In photo taken by Samsung phone, my hair lacks depth and face looks flat ... I want my photos to look like me and not someone else ... "

#### **RESEARCH INSIGHT**

# False notion as a result of camera's default settings

Users tend to believe that default settings in phone camera provides best photo capture experience.

Source:

'Do users change their settings?' by Jared Spool, 2011 https://archive.uie.com/brainsparks/2011/09/14/do-users-change-their-settings/ Accessed on 13 Nov 2018 < 5% Users have changed any settings at all > 95% Kept the settings in exact configuration the program was installed in

#### **ISSUES IDENTIFIED**

# Proper lighting while taking photos plays a huge role

For every photo users tend to capture, they almost every time put lot of effort getting the light right. It's a challenge and takes lot of cognitive effort to spatially illuminate the subject.



"Most times I end up going in circles to align for better light but it's tricky... you know ... you can later edit them but that does not come so natural ..."

#### **ISSUES IDENTIFIED**

# More steps in sharing the photo content

While most users capture photos and instantly share them on social media and other apps, we can rethink of reducing the number of steps involved.



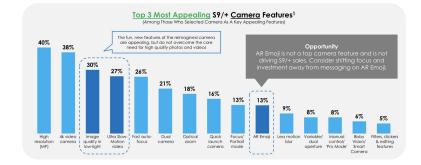
"Mostly I take selfies and share them on social media ... I tend to use camera directly on my Snapchat since it's quick"

#### **RESEARCH INSIGHT**

# Users are more interested in professional camera modes

As there are too many camera modes available while users prefer the core features, frequently used modes need to be more accessible.

Source: Samsung's internal mobile phone camera research report, 2018



Usage stats gathered from Samsung S9 phones around the globe indicate professional photo capturing modes are most widely used

#### **ISSUES IDENTIFIED**

# For visually impaired users, it's challenging to focus on a subject

Getting photos right in terms of focus and subject positioning is important. Those details play a role in communicating one's intended stories.

Samsung S9 camera accessibility can be improved to help solve the above issue.



"A friend of mine is legally blind and he takes more photos than me... he mentions VoiceOver feature is very useful but on Samsung it's not easy to focus on faces while taking photos ..."

# **Redefine the problem**

# Bringing pieces together

Samsung Galaxy S9 has too many camera modes while only few are frequently used. With less contextually driven experiences and missing millennial's core values, overall resulting experience is less appealing to the end users.



#### **USER STORIES**

### Generate & prioritize





# Ideation

### VOICE OF MILLENNIALS

# **UX Design Principles**



Millennials actively support and embrace products that share their values

- 1. Inclusion over segmentation (Inclusive community, Disability inclusion, Gender inclusion)
- 2. Empowered experience (Privacy, Disconnection)
- 3. Purpose over brand (Sustainability, Purpose)
- 4. Community over product (Community, Mood based music)
- 5. Experience across all touch points (Physical experiences, Social payments, Personalized service)

### CONCEPT GENERATION

# **Immersive Brainstorming**

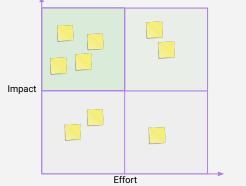
*How might we* enable users to capture content matching their imagination?

*How might we* simplify photo capture modes with focus on contextually-driven experience?

*How might we* enable users share photos more efficiently?

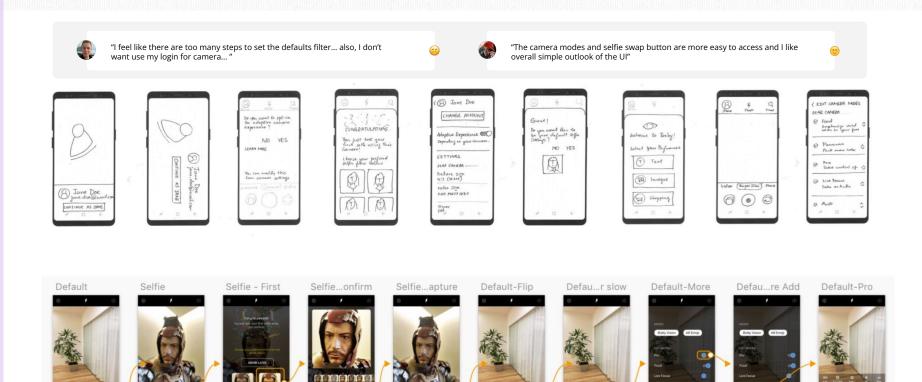
How might we design for inclusive experience?





# Prototyping & Design decisions

### **Initial sketches & iterations**



C

S

🗑 😐 C

uper Slow More

S

Pro

C

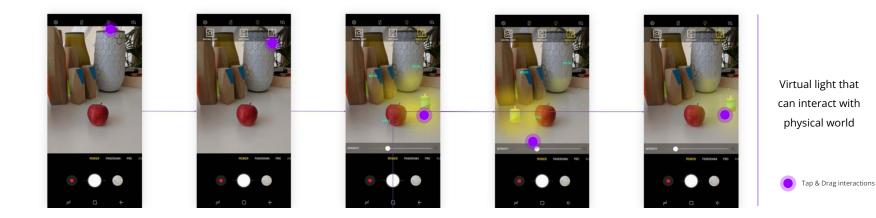
S

### **Initial sketches & iterations**

"I like how some materials can absorb and some can reflect ... there is also a simple way to control light intensity value ... it's useful "



"It seems a bit complex to me... I'm not sure which light to select for my needs ..."



# **Introducing S20 Camera**

# **Redesigned Camera Experience**

### Learn & Adapt

Listen to user and evolve to provide default experience that match user expectations



A quick way to share photos captured reducing friction



### Creative-self

Provide efficient way to manipulate light while capturing photo content



### Less is more

Offer core camera modes first & group the rest for users to select from

### Learn & Adapt





Selfie mode

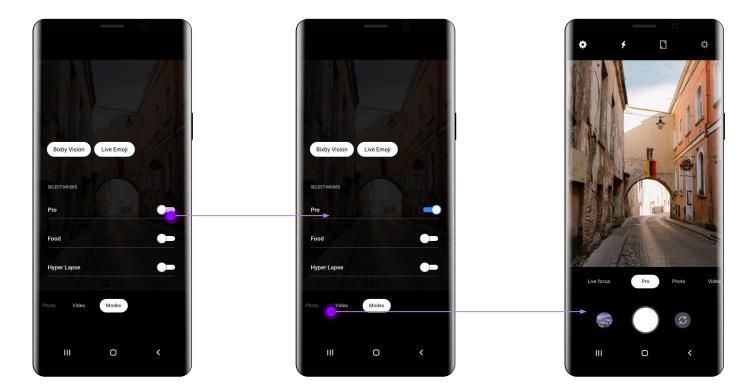
Pick a new filter

Set new filter as default

New default preference set

<

### Less is more



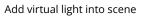
Group least used modes

Add new mode selected

Selected mode now available

### **Creative-self**







Manipulate light

### **Instant share**



Tap to share the photo captured



Select any available means to share

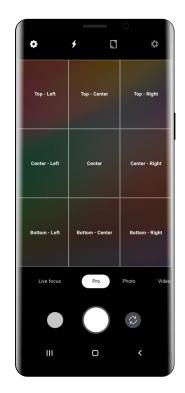
### **Accessibility - Vision**



Reference grid - off center



(Face positioned in Center cell)



Reference grid - In center

Reference grid labels

### How to ensure better reachability?

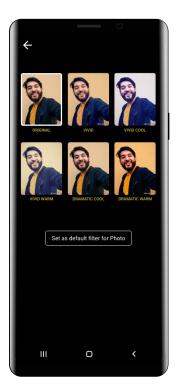




Before

After

### How to enable users make effective decision about their input?





Before

After

### Keeping it simple and clear





Before

After

### **Experience Evolution & Comparison**



Samsung S9 camera view



#### Concept mockup



Samsung S20 camera view

THE IMPACT

# What did we accomplish?







### CSI score

**2%** increment & also **12%** higher engagement with native camera app

### Adoption of 'Voice of Millennials'

Other product teams adopted insights, methodologies that influenced purpose-centric approach

### **More pre-orders**

S20 model received **18%** more pre-orders than S10