CIS2170 USER INTERFACE DESIGN UNDERSTANDING USERS & CONTEXT PART II



WEEK 3 CLASS 2

Slides by Dr. Gillis and Dr. Zhao Artwork by Lilian Shi



IN TODAY'S CLASS:

- OVERVIEW TOOLS FOR USER CENTRED DESIGN
- PERSONAS



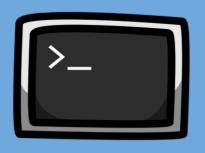
<u>Menti</u>

RECALL!



FOUR ESSENTIAL ELEMENTS OF USER-CENTRED DESIGN

- VISIBILITY
- ACCESSIBILITY
- LEGIBILITY
- LANGUAGE



TOOLS FOR USER CENTRED DESIGN

There Are Several Different "Tools"

That We Can Use When We Are Approaching
Design From A User-Centred Perspective



These Include:

Personas Scenarios Use Cases

And We'll Touch On Each Of These Over The Next Few Classes

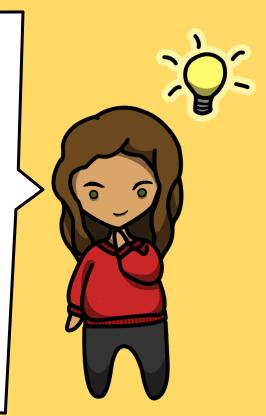




Personas - fictional characters informed by evidence

Scenarios - "a day in the life of..." (typical/best case/worst case)

Use case - things an actor of our system does, and how the system responds





PERSONAS

Reading - https://www.nngroup.com/articles/ personas-study-guide/

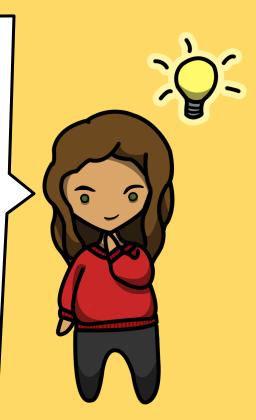
Personas

- Fictional Characters Informed By Evidence
- Help Us Connect With The Real Humans Behind Our Interfaces

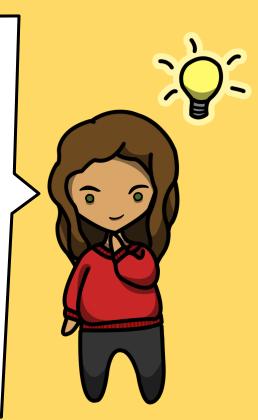


 They Are Given Names, Pictures, Demographics, Roles, Tasks, Job Descriptions, Behaviours, Goals, Motivations

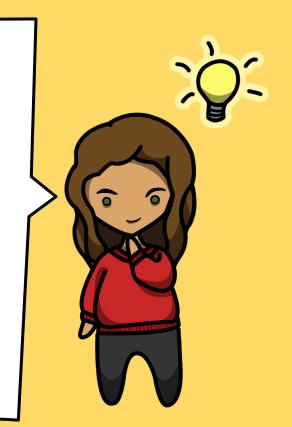
 Their Pain Points Or Challenges Are Described



- Their Technological Proficiency Is Described
- Where/How They Work Can Also Be Described



 They Can Be Given A Background Story -Which Makes The Persona More Realistic And Relatable





DEMOGRAPHICS

Species a 2 Sandrount apparentment

territoria de la como de como

photograph constitution again.

In agreement Chardesing, MC width side.

Seconds single and using daming

seems. Are verily childle and rescued a

realisins recruits entiring suct Affining

divising draft been halipeting for

sweptes attaches viole iscresse.

UNC and sett ting he must

Statis for stagging father a

tox price. Profess policy marketing.

rights colours, and compile wednesses.

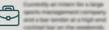
Destir an Anabroid and Program

modelle satth-selemate from secret

treation such as incompany and

пибски диаптик









\$100,0000 or personn hours.

Minufesto crisale aparteresia Nov.

Near mediatritis

granter radio.

Souther's to busy's

CARDINARY SERVICES WANT SAMESTING

Vehicle quick requirement and the

Stroggs artifine Statemann Tigers Garn.

Store during any periods at the

ModRed storoad in Chill. Con-

speak Sparrish and some Kallan.

Transits on a budget and prefers

thery Hit good gottom boat from a boad

stier due to exting on a hodger

and droking when basis out

health information delly

and of the routile and other case.

BEHAVIORAL IDENTIFIERS

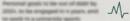








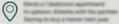


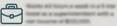






DEMOGRAPHICS







Sharmonthy strongered by Nile

to regard in Novil In the service.

National Parketts organizations

page manifely manages proping

the drams, extendeding denting

continuits and endoting bend place.

Signamety brand load, Franks

Manageral agends to become a

general risprosper sulfries is propo-

and to purchase a subschool former

after 1th assisting and famourness.

amali-replating

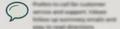


philosophy in a sur-company challen

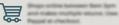
Cooks stry healthy and self-toral

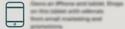
BEHAVIORAL IDENTIFIERS

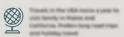










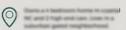


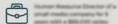






DEMOGRAPHICS





proof modes company for 6

person width a \$600,0000 salvay.

Cradicated without date.

Strong rand for customer service.

and support. Values face to face

posterior and received



ARROWS MICHIGANICS.

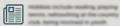
bench, refounding at the county

click being received in pacific

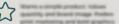
groups and entiring the beauty.

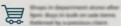


BEHAVIORAL IDENTIFIERS

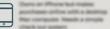


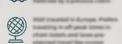


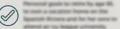


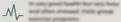


summer.









Assaf

About

- 1 28 Years old.
- Rent apartment in Tel Aviv
- Medium-High Tech proficiency.

Why he get to the market?



Price Local food Quality Vibes

Core Needs

Find exactly where are the groceries he wants. Remembers where to find each shops he liked. Makes shopping faster with direct route. Finds a vegetarian place to eat. Find a new and recommended place to eat.

Motivation

Loves the market vibes and variety. Usually finds something new to try. Easy access to things he needs Love the market location and like to hang around after he finishes shopping.

I love doing my shopping at the market, but I wish to finish it quickly so I could get something to eat

2-3

Per month Market visits

Pain Points

Have a hard time to find a resturant that serve vegetarian food.



GUIDED DECISION MAKING Personas Help Designers And Developers Empathize With The Users, Leading To More User-Centred Products

ENHANCED COMMUNICA TION

FOCUS ON USER NEEDS



GUIDED DECISION MAKING Personas Provide A Clear Understanding Of The User Needs And Behaviours (Based On Evidence) Which Guide Design Decisions

ENHANCED COMMUNICA TION

FOCUS ON USER NEEDS



GUIDED DECISION MAKING Personas Provide A Common Language For Teams To Discuss User Needs And Experiences

ENHANCED COMMUNICA TION

FOCUS ON USER NEEDS



GUIDED DECISION MAKING

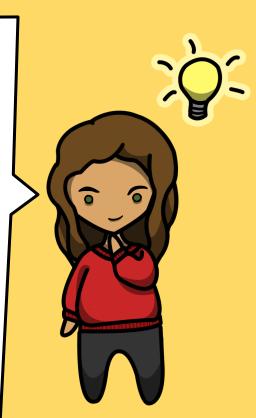
Personas Keep Focus On User Needs Throughout The Design Process

ENHANCED COMMUNICA TION FOCUS ON USER NEEDS



There Are Many Types Of Personas

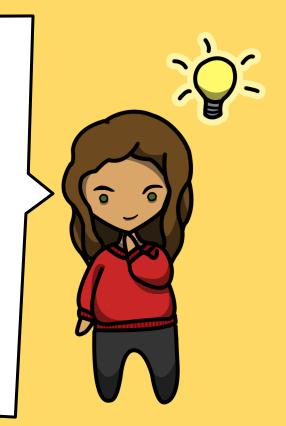
- Primary the main targets of experience design (can be more than one)
- Secondary mostly satisfied with the requirements of the primary personas, but not entirely.
- Customer —buyer group
- Served not users of the product but are directly affected by the use of the product
- Negative users that the product is not built to serve



- Get Into Groups
- Consider WebAdvisor
- Identify The Primary, Secondary, And Negative Users Of WebAdvisor

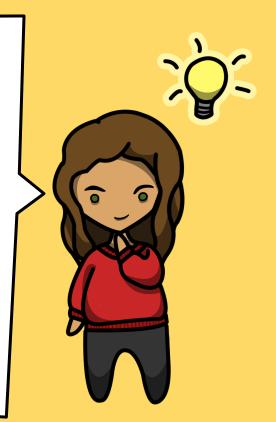


Since This Is A Redesign, And We Have Some Experience With WebAdvisor, We'll Start By Asking The Question - **Who Uses WebAdvisor**?



To Do This, We Can Search For Evidence That We Might Use To Inform Our Personas

We Do This By Specifically Looking For Evidence To Answer The Questions We Discussed In Lecture 5



Things
you want
to know
about
your
user

Consider creating a table that we populate with evidence (links and short summaries)

	Primary (Students, Planning & Registration Staff)	Secondary (Professors)	Negative (Non UofG folks, Alumni)
Demographics	60% women, 22594/26152 FT undergrads, 2910/3138 FT grads, 4.7% and 19.7% international undergrad/grad respectively, 92.2%/70.9% from Ontario (undergrad/grad) (2021)	836 faculty in 7 colleges from 41 countries. 40% women. 322 full professors, 342 associate professors, 172 assistant professors. 79% tenured faculty (2021)	
Goals			
Current Solutions/Pain Points			



Consider creating a table that we populate with evidence (links and short summaries)

	Primary (Students, Planning & Registration Staff)	Secondary (Professors)	Persona ss, Types
Demographics	60% women, 22594/26152 FT undergrads, 2910/3138 FT grads, 4.7% and 19.7% international undergrad/grad respectively, 92.2%/70.9% from Ontario (undergrad/grad) (2021)	836 faculty in 7 colleges from 41 countries. 40% women. 322 full professors, 342 associate professors, 172 assistant professors. 79% tenured faculty (2021)	
Goals			
Current Solutions/Pain Points			



Consider creating a table that we populate with evidence (links and short summaries)

	Primary (Students, Planning & Registration Staff)	Secondary (Professors)	Negative (Non UofG folks, Alumni)
Demographics	60% women, 22594/26152 FT undergrads, 2910/3138 FT grads, 4.7% and 19.7% international undergrad/grad respectively, 92.2%/70.9% from Ontario (undergrad/grad) (2021)	Evidence ors, i. red faculty	
Goals			
Current Solutions/Pain Points			

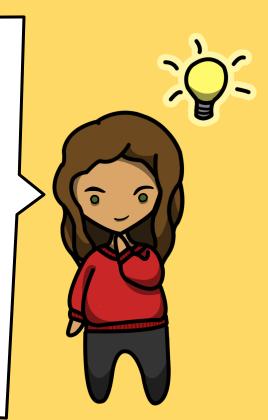


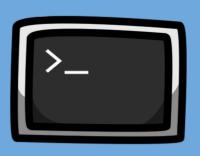
	Primary (Students, Planning &	Secondary (Professors)	Negative (Non UofG	
	Registration Staff)		folks, Alumni)	After extensive
Demographics	60% women, 22594/26152 FT undergrads, 2910/3138 FT grads, 4.7% and 19.7% international undergrad/grad respectively, 92.2%/70.9% from Ontario (undergrad/grad) (2021)	836 faculty in 7 colleges from 41 countries. 40% women. 322 full professors, 342 associate professors, 172 assistant professors. 79% tenured faculty (2021)	GAP	research, this table can help you identify gaps
Goals	<evidence></evidence>	<evidence></evidence>	GAP	Gaps that can be filled with the
Current Solutions	GAP	<evidence></evidence>	<evidence></evidence>	methods
Usage Context	GAP	<evidence></evidence>	GAP	discussed in lecture 5
Device Preferences	<evidence></evidence>	<evidence></evidence>	<evidence></evidence>	
Key Features	<evidence></evidence>	GAP	GAP	
Legal Issues	GAP	<evidence></evidence>	<evidence></evidence>	
Design Preferences	<evidence></evidence>	<evidence></evidence>	<evidence></evidence>	
Feedback / Updates	GAP	GAP	<evidence></evidence>	

	Primary (Students, Planning & Registration Staff)	Secondary (Professors)	Negative (Non UofG folks, Alumni)	
Demographics	60% women, 22594/26152 FT undergrads, 2910/3138 FT grads, 4.7% and 19.7% international undergrad/grad respectively, 92.2%/70.9% from Ontario (undergrad/grad) (2021)	836 faculty in 7 colleges from 41 countries. 40% women. 322 full professors, 342 associate professors, 172 assistant professors. 79% tenured faculty (2021)	SURVEY	But remember, this will all depend on how
Goals	<evidence></evidence>	<evidence></evidence>	SURVEY	much time and money you have
Current Solutions	INTERVIEW	<evidence></evidence>	<evidence></evidence>	
Usage Context	OBSERVATION	<evidence></evidence>	SURVEY	
Device Preferences	<evidence></evidence>	<evidence></evidence>	<evidence></evidence>	
Key Features	<evidence></evidence>	FOCUS GROUP	SURVEY	
Legal Issues	RESEARCH	<evidence></evidence>	<evidence></evidence>	
Design Preferences	<evidence></evidence>	<evidence></evidence>	<evidence></evidence>	
Feedback / Updates	SURVEY	SURVEY	<evidence></evidence>	



Write a short paragraph about the Primary Persona for WebAdvisor

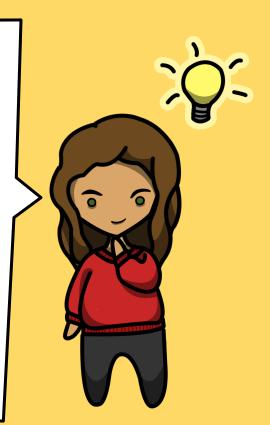




BIAS

Consider The Following:

You Have Been Hired To Design A Dinner Menu For Valentine's Day Weekend For A Local Pub



To Inform The Design Of Your Menu, You Decide To Develop Primary, Secondary, And Negative Personas For The Restaurant



Let's Consider Who Wouldn't Go To The Restaurant - That Is, Let's Describe The Negative Persona

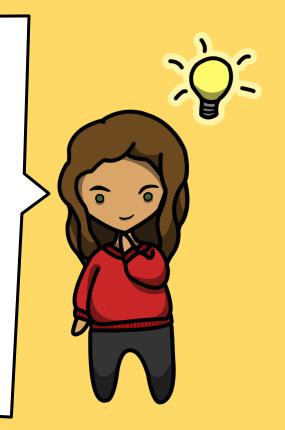




Write A Short Paragraph About The Negative Persona

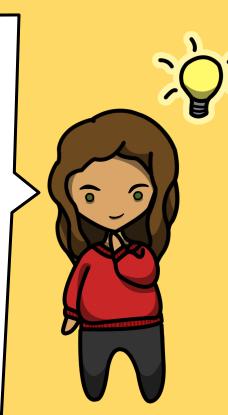


What Evidence Do You Have To Support Your Personas?



Personas Are Not About Opinion, Hearsay, Or Biases

They Are **Grounded In Evidence**



With this in mind, we should be aware of some of the **Biases** that might get in our way of creating evidenced-based Personas





CONFIRMATION BIAS

STEREOTYPING
RECENCY BIAS
CULTURAL BIAS
SELECTION BIAS
ANCHOR BIAS
GROUPTHINK
OVER-RELIANCE
ON QUANTITATIVE
DATA
EGO-CENTRIC
BIAS

The tendency to search for, interpret, favour, and recall information in a way that confirms one's preexisting beliefs or hypotheses.

Designers might give more weight to data that supports their initial ideas about a persona and ignore data that contradicts it.



This involves creating an **oversimplified image of a typical user** based on generalizations about age, gender, race, or socio-economic status.

Such stereotypes can lead to personas that do not accurately represent the diversity of the user base.



Overemphasizing data or experiences that are **most recent**.

Designers might unintentionally give more importance to the latest user feedback or trends, disregarding earlier, equally relevant information.



If the design team is not diverse, there might be a natural inclination towards creating personas that reflect their **own cultural backgrounds** and experiences, potentially overlooking the needs and preferences of users from different cultural backgrounds.



This occurs when the method for selecting data or user feedback is **not randomized** or representative.

Selection bias can lead to developing personas based on an unrepresentative sample of the user population.



The tendency to rely too heavily on the **first** piece of information seen (the "anchor") when making decisions.

Early research or opinions can disproportionately shape the final persona.



In team settings, the desire for harmony or conformity might result in an irrational or dysfunctional decision-making outcome.

Teams might agree on a persona that is not contentious rather than one that is most accurate.



BIAS

Focusing too much on quantitative data (like statistics and metrics) can lead to **overlooking qualitative insights** (like emotions and experiences) which are equally important in persona development.



Designers might unintentionally project their own preferences and behaviours onto the persona, assuming that users will interact with the interface in the same way they do.



To Avoid These (And Other Biases):

Have A Diverse Team
Use Both Qualitative & Quantitative Methods
Seek Broad Range Of Feedback
Be Aware Of Biases

