



Human Computer Interaction

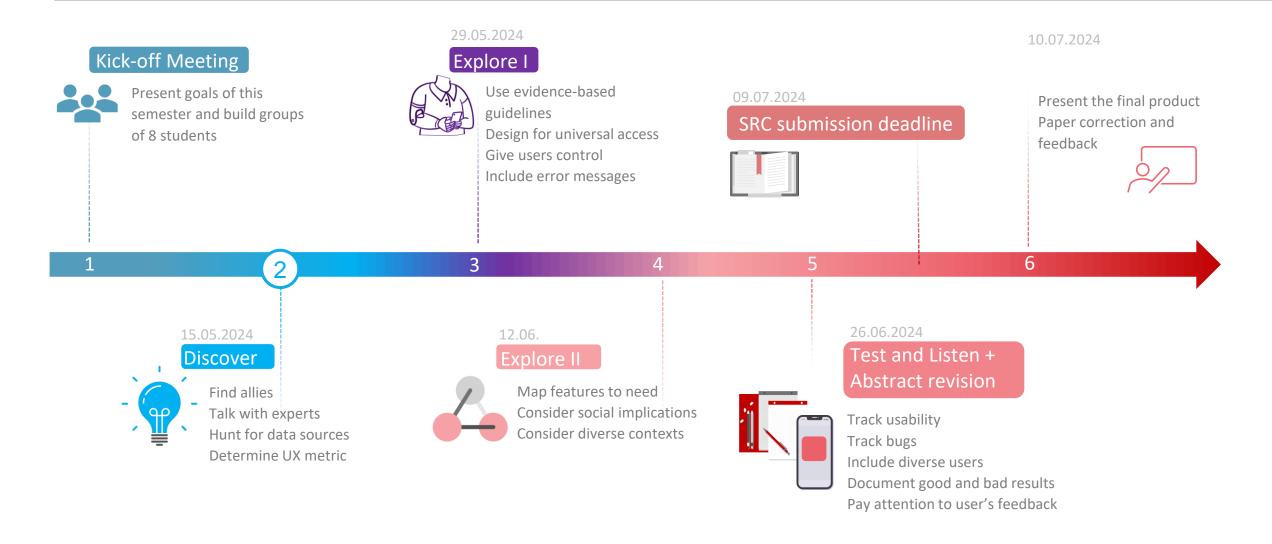
Exercise: Discover

Prof. Dr. Björn Eskofier Machine Learning and Data Analytics (MaD) Lab Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) Summer Term 2024

You will work on one project idea over the course of Data Analytics Machine Learning Data Analytics the semester











Which main obstacle/problem are you solving with your application?

How to Discover?









Discover

Competitive Usability Evaluations





Summary: Data on what works well or poorly on other sites saves you from implementing useless features and guides UX investments to features that your users need.

Competitive evaluations let you assess if your design is better or worse than your competitors and discover the relative strengths and weaknesses of competing designs. They allow you to take an in-depth look at how others solve the same design problems.

https://www.nngroup.com/articles/competitive-usability-evaluations/

Use Cases for Design Personas: A Systematic Review and New Frontiers

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ABSTRACT

Personas represent the needs of users in diverse populations and impact design by endearing empathy and improving communication. While personas have been lauded for their benefits, we could locate no prior review of persona use cases in design, prompting the anestion: how are personas actually used to achieve these hen-

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1 INTRODUCTION

Personas are fictional persons that represent real user segments [7], enabling designers to go beyond mere descriptive segments (p. 60) and truly empathize with end-users [84]. Cooper [41] defined personas as a user-centered design (UCD) and human-computer interaction (HCI) technique that promotes immersion into end-users'



Benefits:

- Reduce risk of failure
- Empathize with customers
- Learn from others and apply value driven improvements (initially implementing valuable features that benefit the users)

Typically focus on 2 to 4 competitors that:

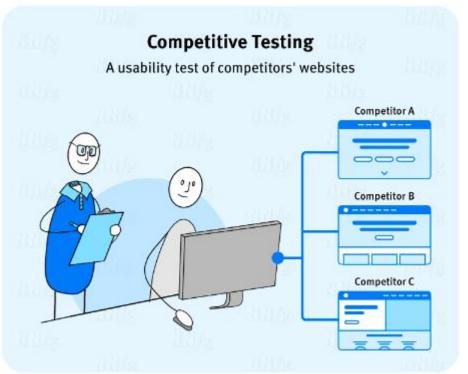
- Offer similar content + functionality
- Provide the best UX overall
- Use innovative design that sets them apart
- The competitors that your customers are most likely to compare you to!



Methods







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https://www.nngroup.com/articles/competitive-usability-evaluations/







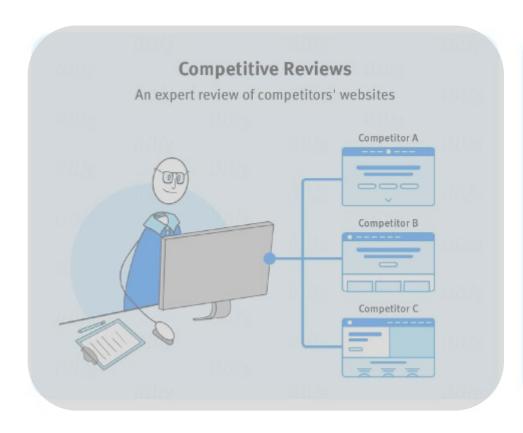


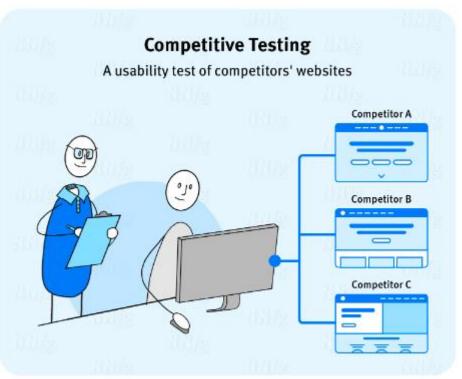
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Methods







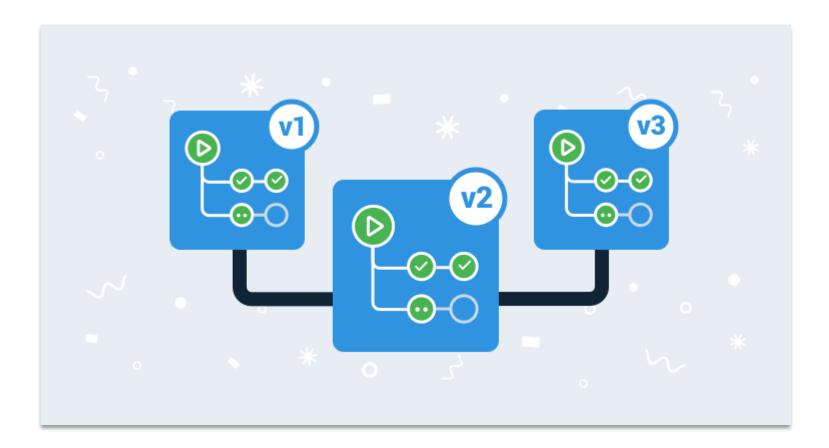
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A competitive evaluation can also involve multiple variations of a single design instead of competitor products.



Design Personas

Who are you designing for?





There is no "average" user

The goal of personas is to characterize vital end-user groups

User personas help a product team find the answer to one of their most important questions: "Who are we designing for?"























Design Personas

When To Create Personas?





Part of the research phase, before the actual design process starts

Field Studies

Interviews

Surveys

Methods of user research



















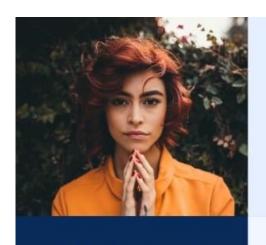




To conceptualize a persona, you can create a personal profile of this person







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Goals

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Frustrations

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Nicky Parker, 28 The Advocate

MARRIED Yes

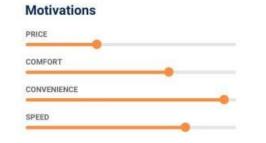
KIDS Sarah 3, Jamy 10

EDUCATION College Degree in Mathematics **OCCUPATION** 9th Grade Math Teacher

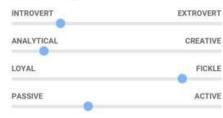
LOCATION San Francisco

Bio or Scenario

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Personality

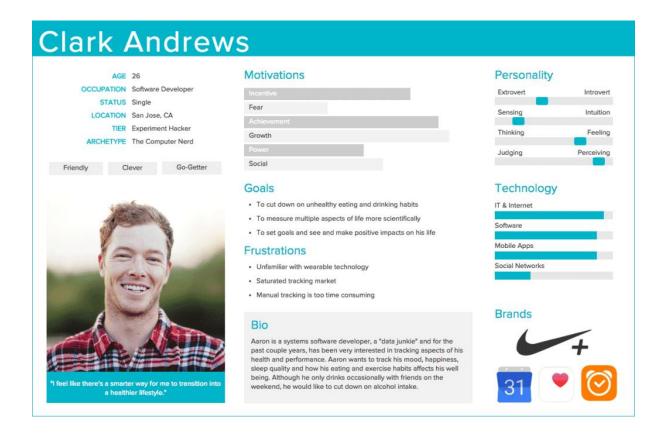


https://ergomania-ux.medium.com/the-ultimate-guide-to-creating-personas-and-how-to-use-them-to-enhance-your-business-1066b0d1f50b

To conceptualize a persona, you can create a personal profile of this person







PERSONA TEMPLATE



Jennifer D. Gephart

32 Occupation Finance Project Manager Education Location Austin, TX Status Single

Cycling, kayaking in Lake Travis, comedy shows, fine dining with Better communication across various departments Clear, defined due dates and

accountability for tasks

Do more with less money

Pain Points/Frustrations

Delays or slow communication

Disorganized work environment

Lack of accountability in tasks across team members

Recognition from board, supervisors and peers

Personal reward from successful deals

Motivations

Interests

friends, volunteering at the

local animal shelter.

Opportunity for raise or promotion

Satisfying clients and

Challenges

Increase revenue fast Increase sales team

productivity Delays or slow communication

Slack Integration

All-in-one project management

for projects Gantt charts

> Notifications for easy and quick collaboration

tool that has clear due dates

Needs & Expectations

Technology & Social Media

She uses Apple devices

Browses on her phone but makes more action decisions on her desktop

Uses Instagram, Facebook, Linkedin, and Twitter

Content-Type Preferences

Wall Street Journal Fortune Business Week The Economist Trade Publications Bloomberg New York Times

Brands & Influences

Google Apple Amazon Microsoft Facebook

https://xd.adobe.com/ideas/process/user-research/putting-personas-to-work-in-uxdesign/

https://uxdesign.cc/creating-research-backed-personas-ec31571cee47



Discuss possible personas (10 minutes)



Who are the main personas that will use your application?

Using ChatGPT in User Research





https://youtu.be/watkVh1U_ko?t=113

Understanding the requirements based on your target group



























The different types of requirements (user, commercial, technical, etc.) must be considered

Keep in mind that it involves many and diverse points of view

Thorough research on the needs of users and stakeholders is essential



The requirements provide a complete vision of the product and expose its main features





User vs. Customer

- Customer is often not the user!
- Creating awareness with the customer for the user
- Design for the user not to please the customer (this is a difficult one)
- Clear assessment of target group and personas will help to convince the customer

Tasks



Please prepare the following for the next session

- Answer: Who is/are the Personas you are building your application for? You can use the provided form in StudOn
- Answer: What are the respective requirements of your application? You can use the provided form in StudOn
- Answer: Who are your competitors, how would you go above and beyond their solutions?