Prescription bottle redesign

Marcus Johansson

Team member: Polly Ouellette

Principles of Information Design



Introduction

Most prescription pill bottle label designs today are quite confusing in terms of delivering information in a structured way. That is something we wanted to change with our design. What we saw in todays market was a very generic design that did not inform the users very well the direction that they were going to take their pills. The designs are not personal in any capacity which we saw could help in a household with many people in order to identify who's medicine is who's.

What we wanted to change was the way the information was delivered. What we wanted to try and achieve was a more personalised design that is efficient in different contexts. We wanted that the pharmacists could identify the medicine more easily. We also wanted the user to more easily read of the information and decrease the level of confusion that often is created with todays designs.

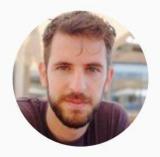
Problem area

What we first looked at and identified was the actual label. The area to fit information on is very small which required the design to be efficient to deliver information. Misuse of a drug can lead to serious damage or death which requires the design to be well planned. What we recognised was that the label has to be clearly structured for different context. A pharmacist needs to be able to look at the label and identify the correct drug before handing it out. The user needs to be able to see important information such as dosage and what kind of medicine it is. Different contexts arise which could involve people living in a care homes where the nurses are serving the drug. Something we also saw was the aspect of timing. Current designs does not really provide an

easy display of when to take the drugs. It is usually printed out in text which can cause confusion, especially grouped with a lot of other text.





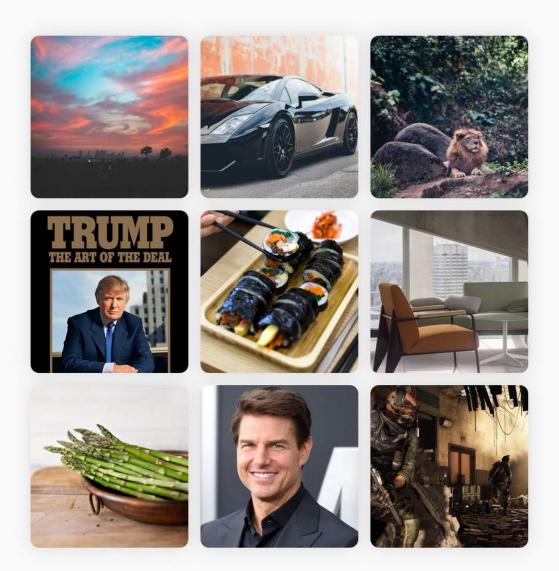


Name: Jerker Svensson

Age: 34

Context:

Jerker is a very successful Swedish man living in New York working in real estate. He likes fast cars and has quite a social circle which he hangs out with a lot during the weekends. However, he managed to break his leg during one of his parties and now has to walk with crutches.



Use case:

In Jerkers case he still needs to be sharp in his mind but don't want to be dozed of by the drugs. He likes to be straight the point and hates wasting time so efficiency and simplicity is very important to him. This requires the label to fulfill these specifications.



Name: Ingrid Johansson

Age: 76

Context:

Ingrid is a grandmother to three and lives in an assisted living facility in the city of Chicago. Ingrid is used to do her walk in the park every morning with her dog. She likes to drink coffee with her friends while knitting blankets for her grandchildren. She also likes to knit and is connected with a knitting club. Her joints are hurting because of arthritis from all the knitting, and she needs a prescription for it.



Use case:

Ingrid is served her prescription by nurses and these nurses serve a lot of prescriptions. In this case the bottle label has to be clear about how much to serve and when.



Name: Jenny Eriksson

Age: 14

Context:

Jenny is a typical teenager who does typical teenager things, like going to the mall and painting her nails during sleepovers with her friends. However Jenny has a terminal illness and has to take prescription drugs on a regular basis and has been since she was a baby. Since Jenny isn't 18 yet, her mother has to pick up the medication for her at the pharmacy, although her mom lets Jenny manage her own medications.



Use case:

As a confused teen with concerned parents Jenny wants her prescription bottles to be simple but also looking good. She doesn't want her friends to judge her when she has to take her pills in school and with a cleaner label she thinks she escapes that.

Cautionary statemens

Direction for use

Directions for Use

Cautionary Statements

Prescription

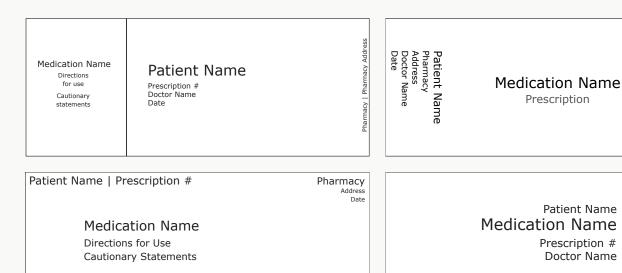
Patient Name

Prescription #

Doctor Name

Sketches

This preliminary work helped us produced many different iterations. While Polly was sketching with pen and paper I produced the personas illustrated above. After she completed a wide array of different iterations we picked out together our five favourites. I converted these into digital sketches and was submitted.





Pharmacy | Address

Doctor Name

Refine and improve

After missing our chance for in-class critique for the first weeks work we were a bit lost on how we would proceed. We had some general direction of what to do and we knew how we would go about it to improve the design. We started out into dividing the artboards into grids. We wanted to make sure that the label would be able to tell a story. This story would be told with the help of the actual bottle as it is circular the twisting of the bottle is of high relevance. It meant that the label would be divided into three different sections of visibility.











Improved sketches brought to critique session

Sketches & Critique

We had a good look at our sketches and as mentioned put into grids and started to form a design system. We knew that we wanted to utilise the available whitespace instead of dividing it into lines as current label designs do. We thought about starting to use colour as part of the system but decided not to as we thought that integrating colours to it was for the week after. However when we got to class for critique session we learned that it was a wrong move. It was a valuable session as it pushed us into the right direction of where we wanted to take the designs. We also started researching concepts for label designs and found some good examples. The concepts got us into about dividing the information with the help of icons and illustrations.



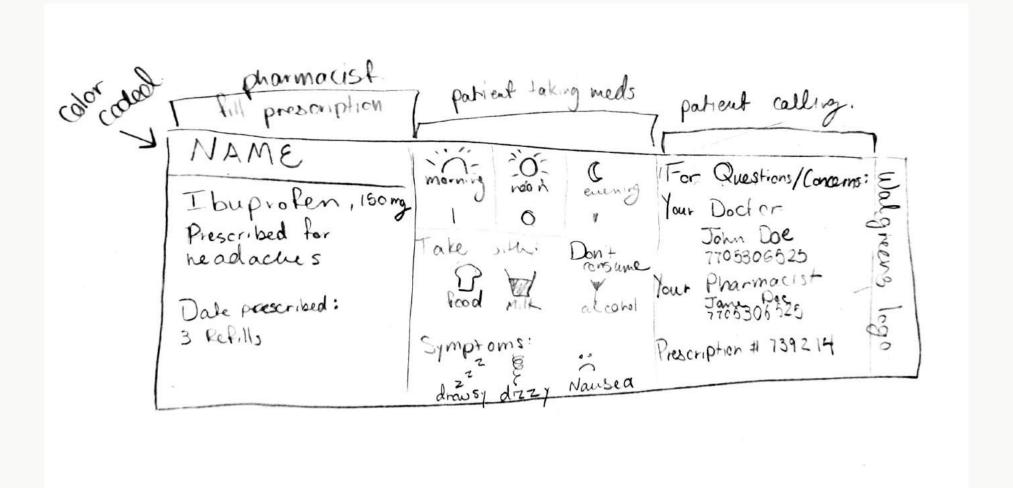
Concept labels from target that includes color scheme and icons



Week three Final design

Following the second weeks critique we decided to do an all new design and incorporate all the new design ideas we had. We knew that we wanted to implement a clear and instructive way of taking the medicine. We also wanted to incorporate icons in order to simplify and make it easier for the user to distinguish the information. We wanted to add colours to the label and with all of this we wanted create a clear and effective design system that would work with our previous revelation regarding the twisting of the bottle and clear grid structure. While Polly started out sketching a potential layout I started working on the visual design. This meant colour palette, icons and typography.

Sketching



Design system

Typography:

Avenir light

Avenir light oblique

Avenir Roman

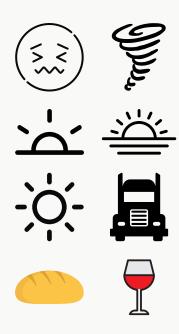
Avenir Medium

Using Avenir was targeted for our personas as they wanted something more modern and nicer looking. While it performs those things it is also a great font for both headlines and body text.

Colours:



Icons:







Ingrid Nilsson



Do

Take with

food





Don't

For questions:

Ibuprofen 200mg

40 red/brown tablets 📀



Prescribed for headaches

Possible symptoms

Drink

alcohol

Date prescribed: 9/10/18 3 refills







Operate

machinery

Drowsy Dizzy

Nausea

Your doctor

Magnus Johnsson (404) 393 4567

Your pharmacist

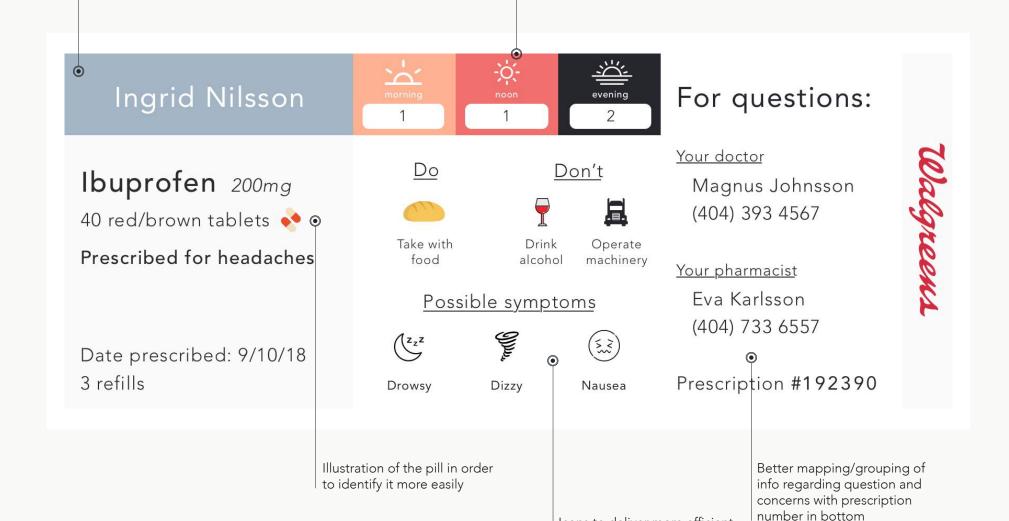
Eva Karlsson (404) 733 6557

Prescription #192390

Color-coded for specific person in the household to identify more easily without reading the text

Schedule for taking the drug using symbols and colour. If user is colour blind they can rely on icons

> Icons to deliver more efficient information instead of relying on a massive amounts of text



Information for the pharmacist Information for the user when Information for the user when when handing out the drug using the drug having questions Ingrid Nilsson For questions: Your doctor Don't Do Ibuprofen 200mg Magnus Johnsson (404) 393 4567 40 red/brown tablets 📀 Take with Drink Operate Prescribed for headaches food alcohol machinery Your pharmacist Eva Karlsson Possible symptoms (404) 733 6557 (5.3) Date prescribed: 9/10/18 3 refills Prescription #192390 Drowsy Dizzy Nausea

Final reflections

After the final critique session we had I felt great about the design. The final artefact is a big evolution from our previous ones. It conveys all the information in the way we wanted and with the use of the newly incorporated ideas. What I agree on which was said at the critique session, was that the icon design can be more uniform in its style which would complete the design system. I do believe however that they successfully communicate our idea of using icons to help the user search for vital information. Other than that I felt that the feedback was very positive about the use of grids and colour. Most people agreed that when seeing the label flat on the table it could be hard to see the grid right away but when applied on the pill bottle it would make sense as they placed it in the hand and rotated it around.

The cooperation with my team member Polly has been great and I think we have been successfully working towards a design that we both are really happy about. I think we complemented each other great as she wrote and sketched a lot while I was working on the digital material which means we used each others strengths.

What I would want to do in the future is to work on the icons and make sure that they follow the same kind of style. Also try out different kinds of drugs to make sure that the design system works in different cases.