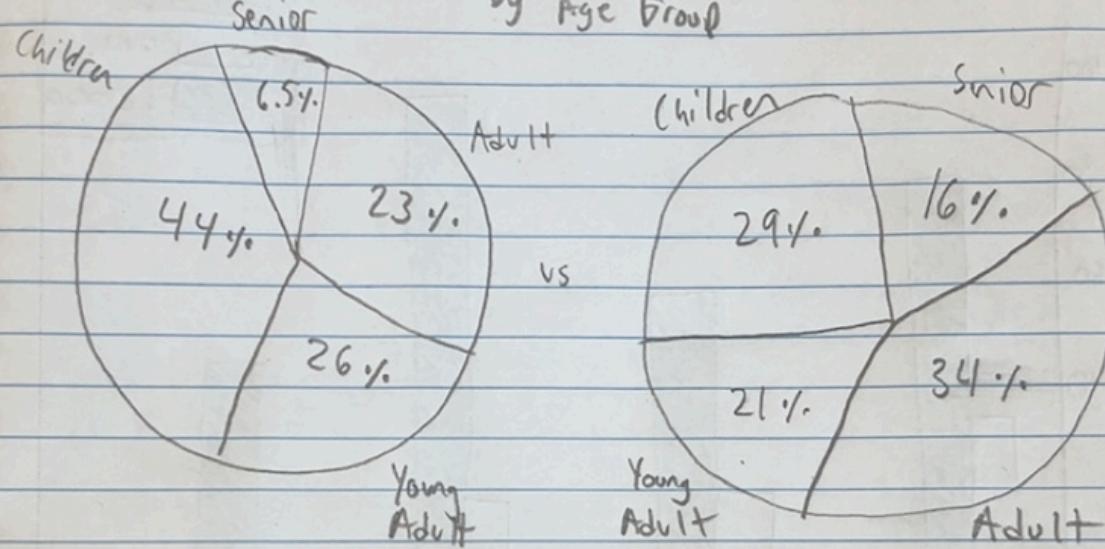


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HW 1 Overall Reflection:

In my first sketch I used two pie charts because they feel very approachable and make it easy for me to see that children fell from about 44 percent to 29 percent while seniors climbed from roughly 6 percent to 16 percent. I instantly get each group's share, but I also notice that the pies take up a lot of room for just two moments in time. It is hard to judge small differences in slice size and I can't see the actual headcount behind those percentages. In my second sketch I switched to side-by-side bars showing the raw population in millions for 1900 versus 2000. That makes it clear that adults went from around 23 million to almost 100 million and seniors jumped from nearly zero to over 10 million. What I don't like is how the tiny white bars for 1900 almost disappear next to the tall shaded bars for 2000, and the heavy hatching feels visually dense without color to separate the years. In my last chart I created a multi-line graph of each age group's percentage over the full century. I enjoy watching the adult line cross the children line mid-century and the steady rise of the senior share. That view tells a strong story of shifting proportions, but I found that relying solely on different line styles without color makes it easy to lose track of which line I'm following. Small wiggles in the middle bands also get lost unless I add callouts or gridlines. To bring the best of all three sketches together I could try a stacked-area chart so that proportions and totals live in the same view. For the bar chart I would swap the hatch fills for two simple colors to make 1900 and 2000 pop. If I stick with lines, I would add a touch of color or a few data labels at key years so readers always know which group they are looking at. Those tweaks would let me keep the friendly feel of the pies, the precision of the bars, and the trend clarity of the lines all at once.

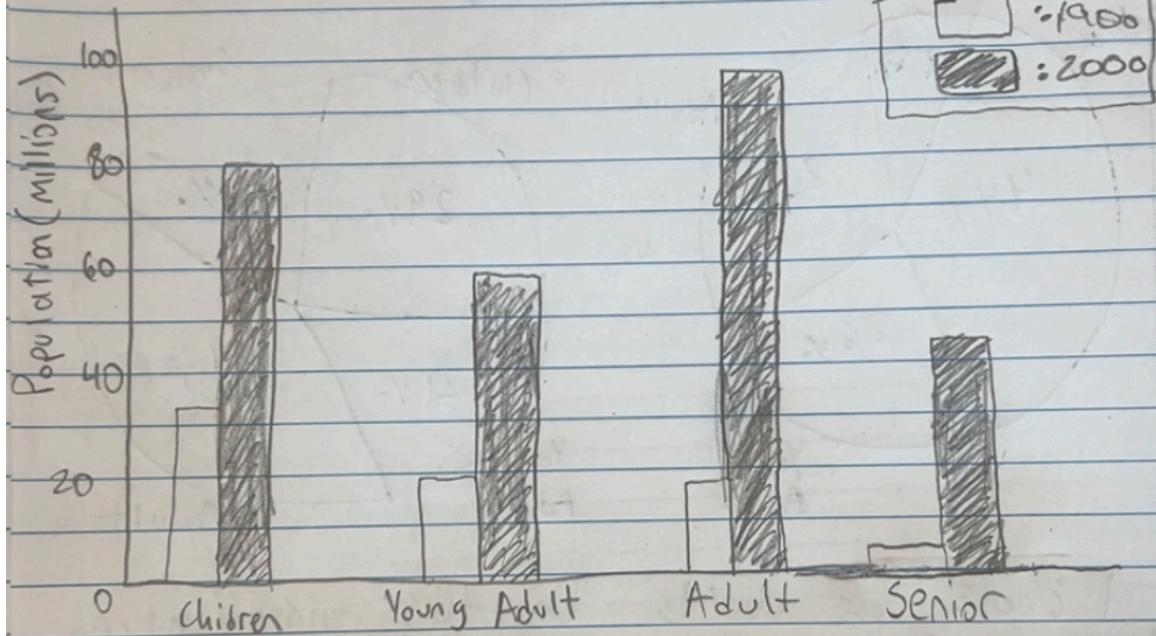
Population Distribution percentage by Age Group



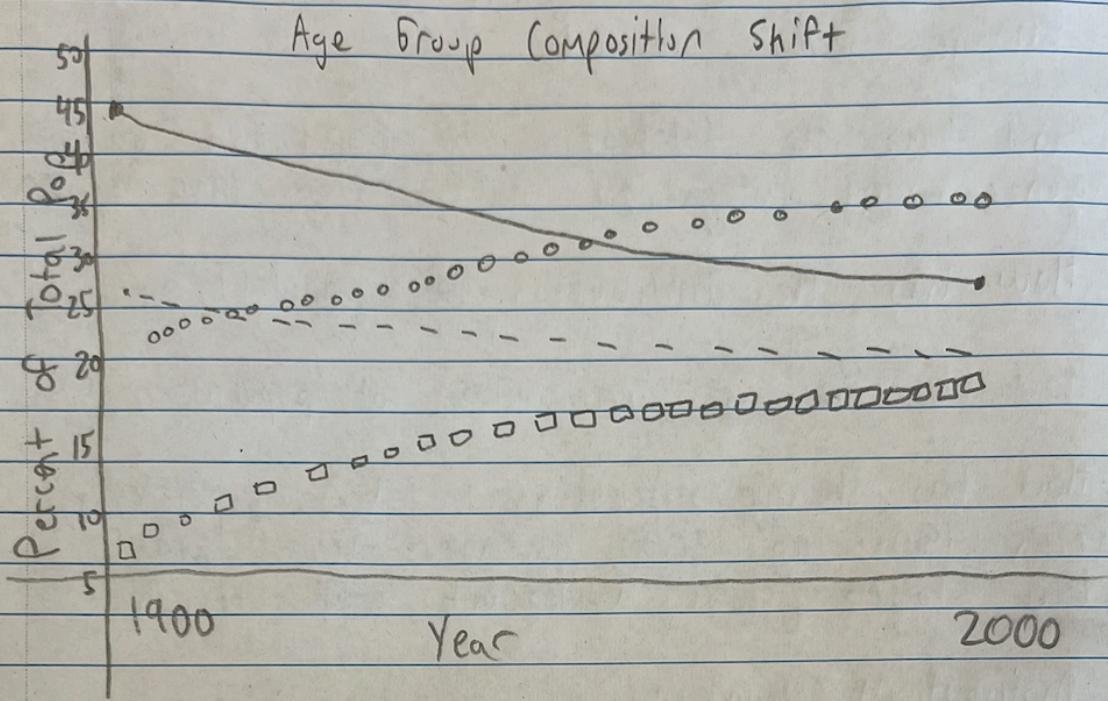
I chose pie charts for this visualization because they portray categorical percentage breakdowns very well in a neat fashion. By placing them next to each other it makes for a nice comparison. I aimed to show demographic shifts over the 100 years. This design worked well but I think using color would've helped with comparison measures, highlighting key differences.

Age Group Population Comparison

Key : Year
□ : 1900
■ : 2000



I chose this design because once again, it is simple but it clearly gets the point across that overall the population did increase significantly but the trend of decreasing in numbers/population per age group is almost gone by the 2000. I was hoping to show the variance and how it has changed. I think that to improve, I could have included



Key

□ = Senior

O = Adult

— = Children

--- = Young Adult

- I chose this design because it is simple yet it shows the shift of age demographics very clearly in an easy to interpret format. I was hoping to show that senior citizens went up in percent of the total population group fairly largely (probably due to modern technology / advancement of medicine). One thing that would help improve the chart is adding color to distinguish lines instead of changing the line format itself, just for clarity.