**About**

Oopsie was built with Flask and Python as a final project for CS50x 2021.

The main goals of the project were:

1. To make an inverse or “dark” (as in Wario to Mario) anti-fertility app that celebrates, with tongue in cheek, the wondrous event of not getting pregnant.
2. To provide a daily “Oopsie” percentage based on selected and combined preventative methods that could be useful at-a-glance to anyone interested – as opposed to the many, very pink existing fertility apps that seem to be designed only for expecting moms and rarely (if ever) involve preventative methods or percentage chances.
3. To allow inputs for The Rhythm Method and calculate a different ongoing daily Oopsie chance based on these inputs and to show these calculations for today, yesterday, tomorrow, and in a populated full calendar view.
4. To create a mini simulation game where the user can “get lucky” (and unlucky) based on the Oopsie chance for the day.

Future goals:

1. To allow pushing Oopsie chances to Google Calendar.
2. To port Oopsie to a mobile application.
3. To create a mobile widget of the daily percentage.

**Sources**

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**Disclaimer**

While the creators of Oopsie have taken great care to research the preventative data and statistics (while citing all source) used in this application, they admittedly are not professional researchers, reproductive scientists, or mathematicians. We are also definitely not giving or suggesting medical advice. Therefore, it is not recommended that you use this app beyond educational or entertainment purposes. In other words, it’s not our fault if you have an Oopsie.

Other Caveats:

Fertility can be very complex! That is why this app relies on statistical averages. We have tried, in some cases, to err on the side of caution. For example, initial figures for the Rhythm Method often assume a 6-day fertile window in which sperm live 5 days, the egg lives 1 day (up to 24 hours), and chances of pregnancy drop immediately to 0% after this; however, sperm and eggs can live longer or shorter based on various factors -- commonly age, but there are many. Instead of trying to consider every possibility, we simply adjusted our model to allow for longer living sperm, eggs, early/late cycles, and other minor anomalies by expanding the possible fertile window to 15 days in which the added days have a diminishing Oopsie chance until %.25. This means the day after ovulation, commonly 0%, has an Oopsie chance of 4%, the following day has 2%, and so on until .25% and then 0% thereafter until the next fertile window.

Based on this explanation, the Oopsie chance should be fairly conservative in general. However, if you or your partner(s) have a special condition that affects your fertility or cycle regularity, this app will likely not reflect an accurate Oopsie chance. We recommend your own due diligence (conduct your own research, consult your doctor, etc.).

**Contact**

Please send feedback to ragmats at gmail dot com. Thank you.