



Spoken Tutorial
IIT Bombay

SUMMER FELLOWSHIP REPORT 2021

GRAPHICS & ANIMATION

Submitted by

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Acknowledgement

I wholeheartedly would like to thank and express my gratitude to **Prof. Kannan M. Moudgalya**, IIT Bombay, for making it possible for me to work on this project. I would like to appreciate the noble cause of FOSSEE, IIT BOMBAY, in promoting the use of FLOSS tools to improve the quality of education in our country. I extend my sincere gratitude to **IT Department, LD College of Engineering**, for making me aware about this wonderful fellowship.

I am very much grateful to **Arthi Varadarajan & Shital Joshi**, Assistant Project Managers, Health & Nutrition, Spoken Tutorial Project, IIT Bombay. I have successfully completed my internship under their guidance. Their efforts, suggestions and tremendous support enhanced my knowledge in the field of 2D graphics and animation due to which I was able to perform very well. I will be always thankful to them for the experience that I had gained.

I am feeling blessed that I got an opportunity to work for **Health and Nutrition Project** in this fellowship. It is always fruitful to work on such project which creates awareness in people about health and nutrition. I would like to thank **Dr. Bella Tony**, Senior Project Manager, Health & Nutrition, Spoken Tutorial Project, IIT Bombay, for believing in me and allowing me to be a part of this marvellous initiative.

I would like to thank my parents and friends for supporting me for this fellowship. Lastly, I would also like to thank all the people who supported and wished for the success of my internship directly or indirectly.

With Regards,
Arpan Prajapati

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Introduction

About Fellowship

I was selected as a 2D Graphic Designer in the Graphics and Animation category of the fellowship under Health & Nutrition, Spoken Tutorial project, and was placed under the mentorship of Arthi Varadarajan and Shital Joshi.

Health & Nutrition, Spoken Tutorial project at IIT Bombay, creates video tutorials to reach out to scores of people for spreading awareness on malnutrition and to reduce infant mortality drastically in India and globally.

This series is created to empower Mothers, Fathers, Grandmothers, ASHAs, Auxiliary nurse midwives, Anganwadi workers, and the entire community with the knowledge of life saving skills with Maternal, Infant & Young Child feeding techniques.

The outreach will be done using translated and dubbed tutorials in all Indian languages that will cover the entire Indian landscape.

Duration of Fellowship

I chose the full time FOSSEE Summer Fellowship 2021 which spanned from 22nd June 2021 to 3rd August 2021.

Aim

To create 2D graphics and animations for Health and Nutrition Project using software like Inkscape, Synfig, Blender.

Software Used

- Inkscape - a professional quality vector graphics open source software
- Synfig - a free and open-source 2D animation software
- Blender - a free and open source 3D and 2D creation suite

Graphics Outputs

Artwork 1 - Mother and daughter eating together



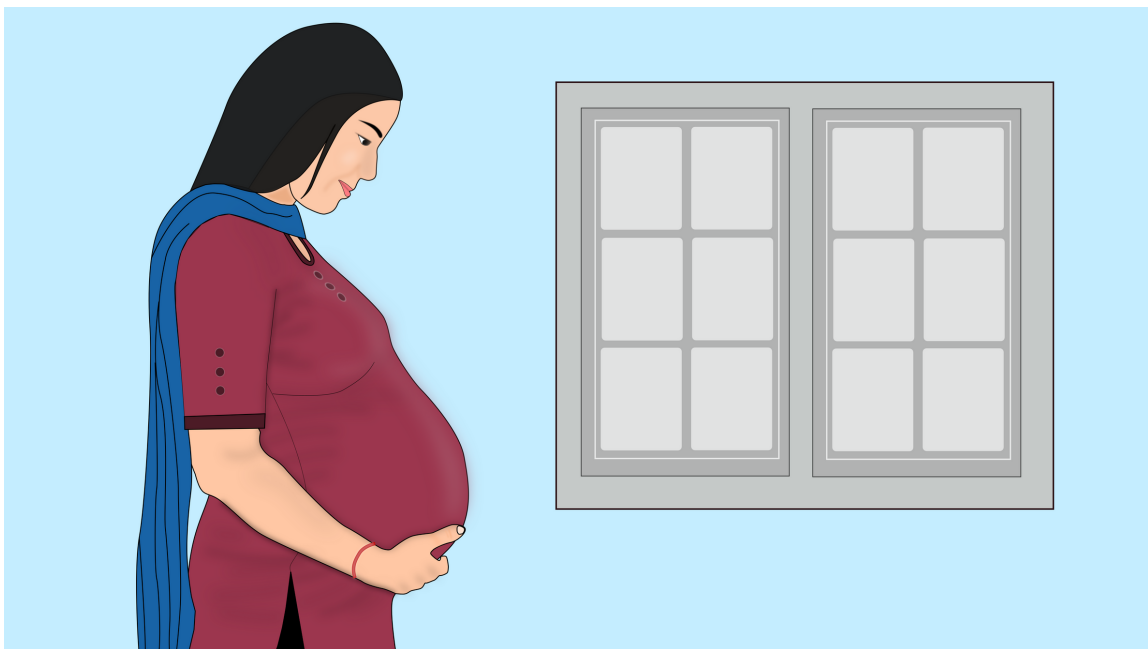
Artwork 2 - Father and daughter sitting in a park



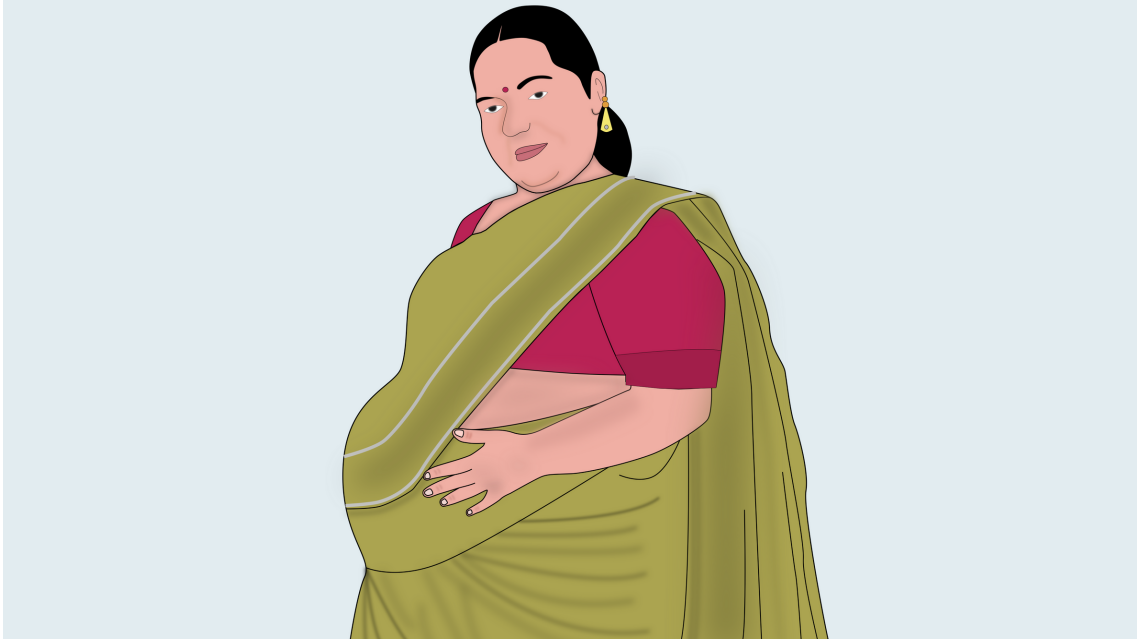
Artwork 3 - A lady cleaning the floor with a mop



Artwork 4 - Normal weight pregnant woman



Artwork 5 - Obese Pregnant woman



Artwork 6 - Underweight pregnant woman



Artwork 7 - Husband & wife consulting doctor



Artwork 8 - Husband taking care of pregnant wife in pain



Artwork 9 - Pregnant woman exercising



Artwork 10 - No smoking in pregnancy



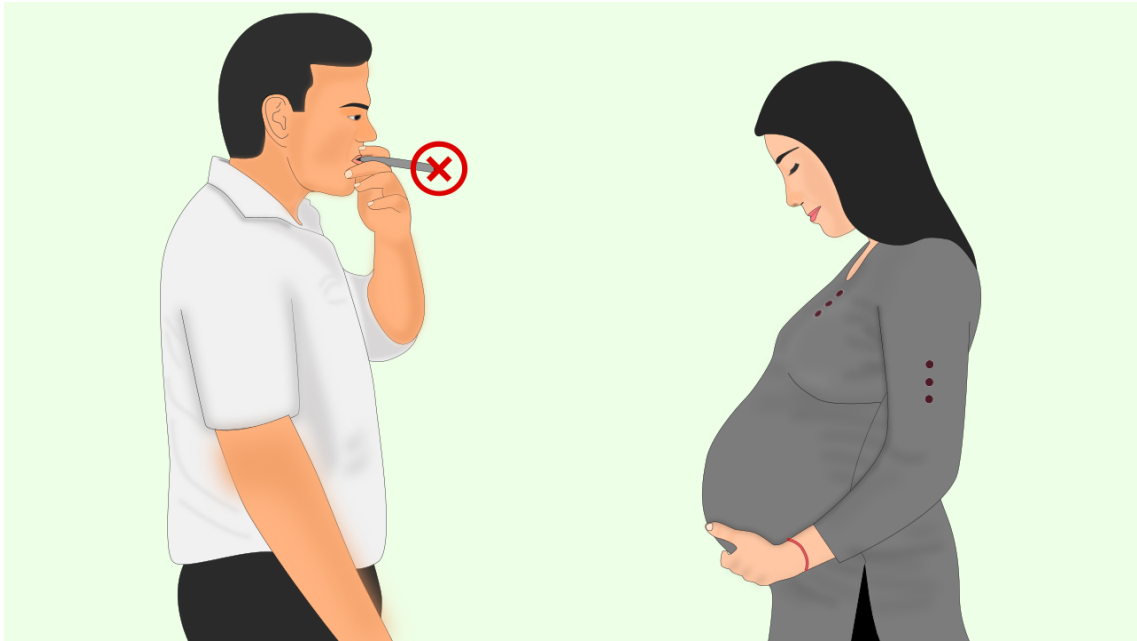
Artwork 11 - Husband buying fruits



Artwork 12 - Husband and wife eating together



Artwork 13 - No smoking in front of pregnant woman



Artwork 14 - Pregnant woman doing meditation



Artwork 15 - Pregnant woman walking



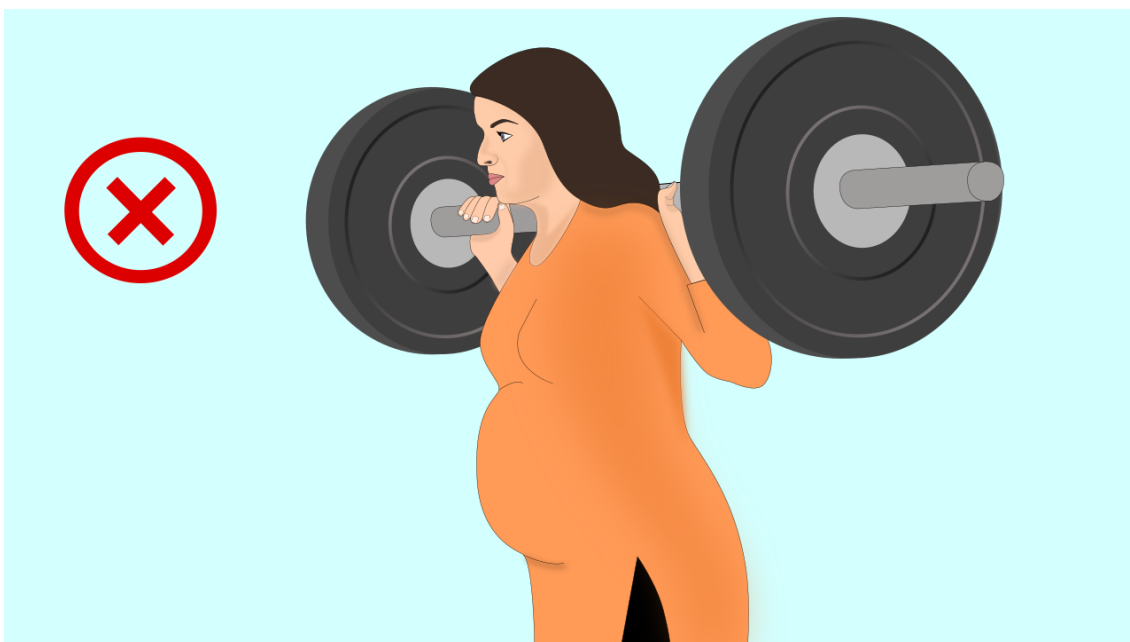
Artwork 16 - Malnourished mother and child



Artwork 17 - Old man having headache



Artwork 18 - Pregnant woman lifting heavy weight



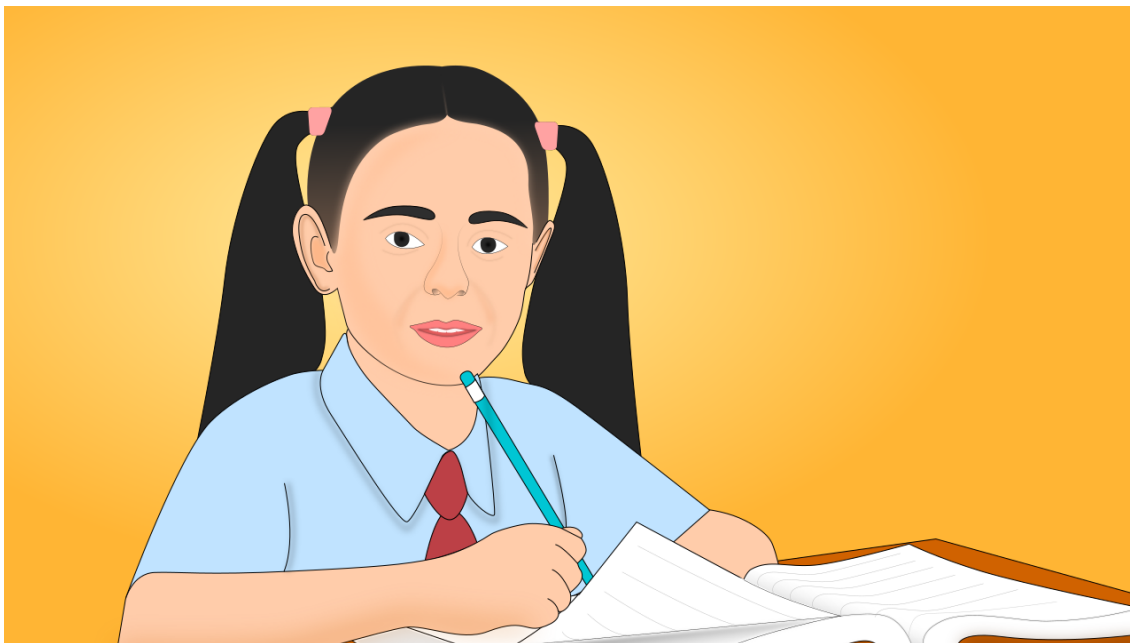
Artwork 19 - Woman with neck Pain



Artwork 20 - Old woman having back pain



Artwork 21 - School kid



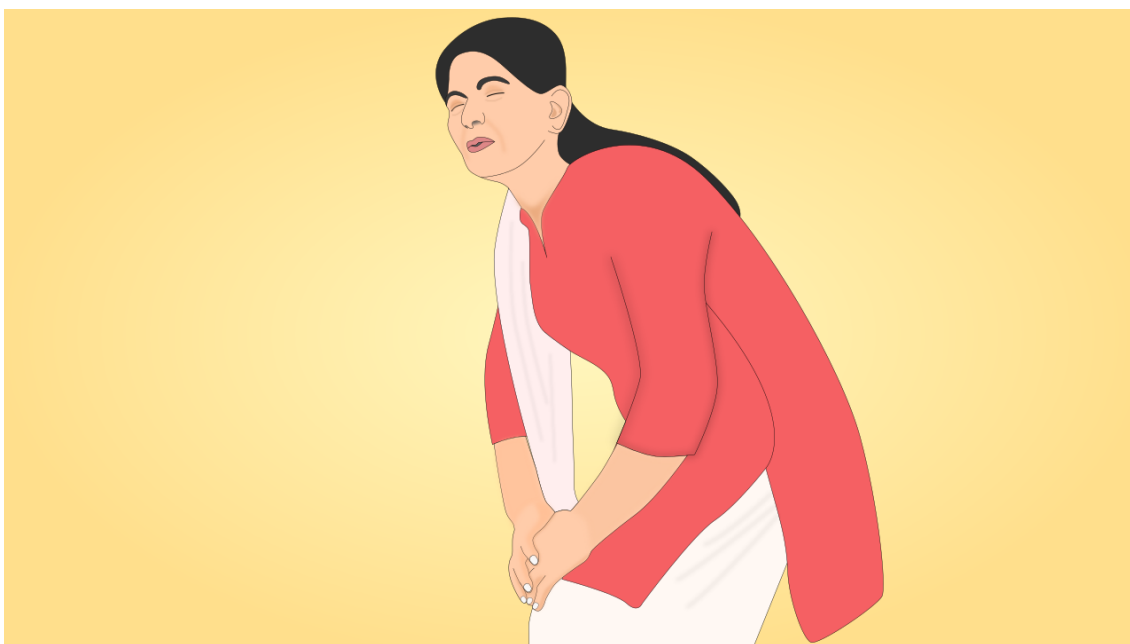
Artwork 22 - Happy small kid



Artwork 23 - Small kid eating



Artwork 24 - Woman having knee pain



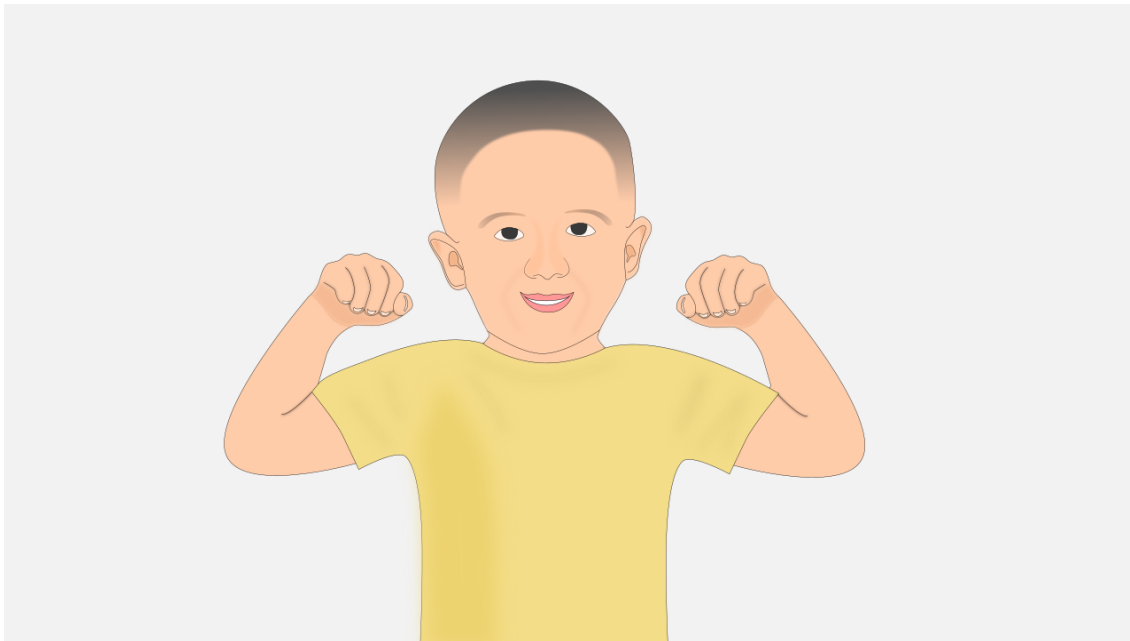
Artwork 25 - Healthy man



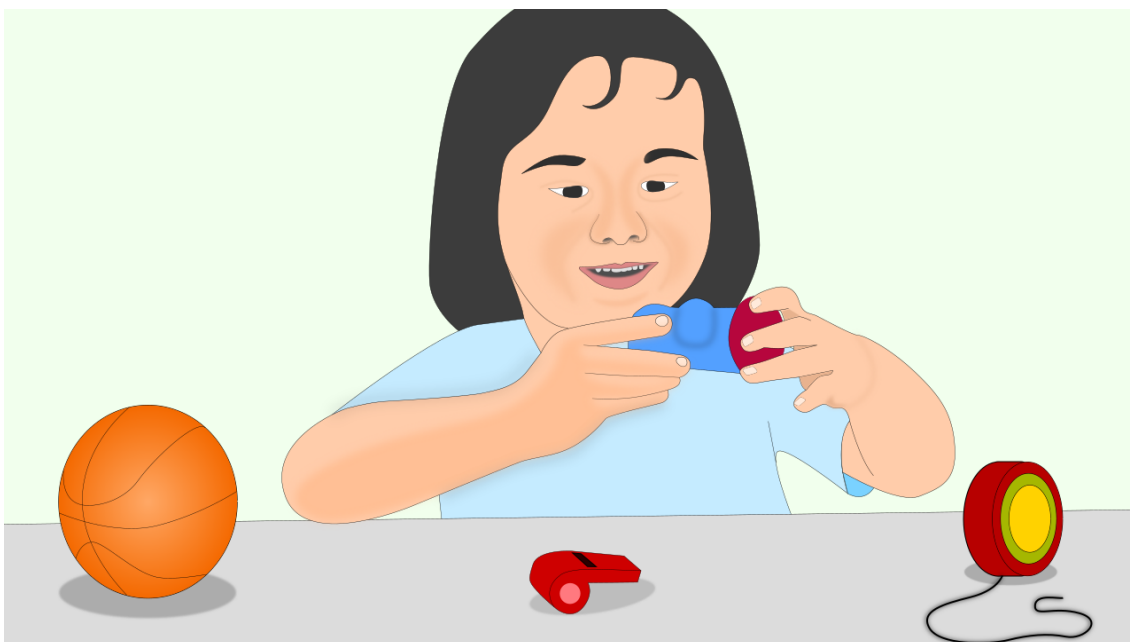
Artwork 26 - Mother feeding a child



Artwork 27 - Healthy kid



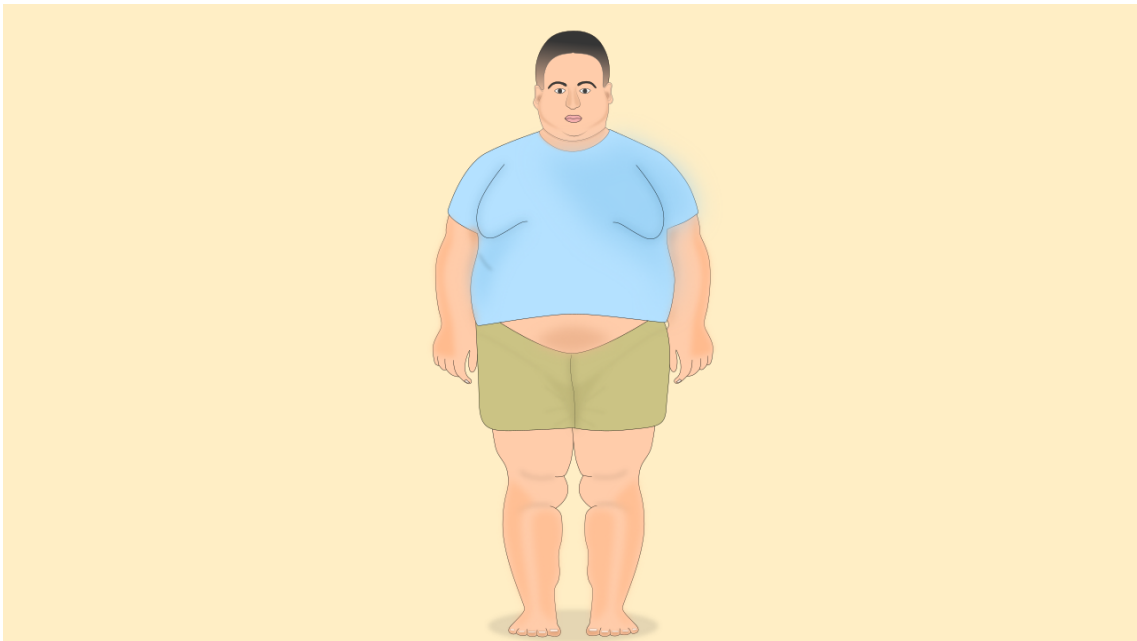
Artwork 28 - Kid playing with toys



Artwork 29 - Pregnant woman drinking water



Artwork 30 - Obese kid



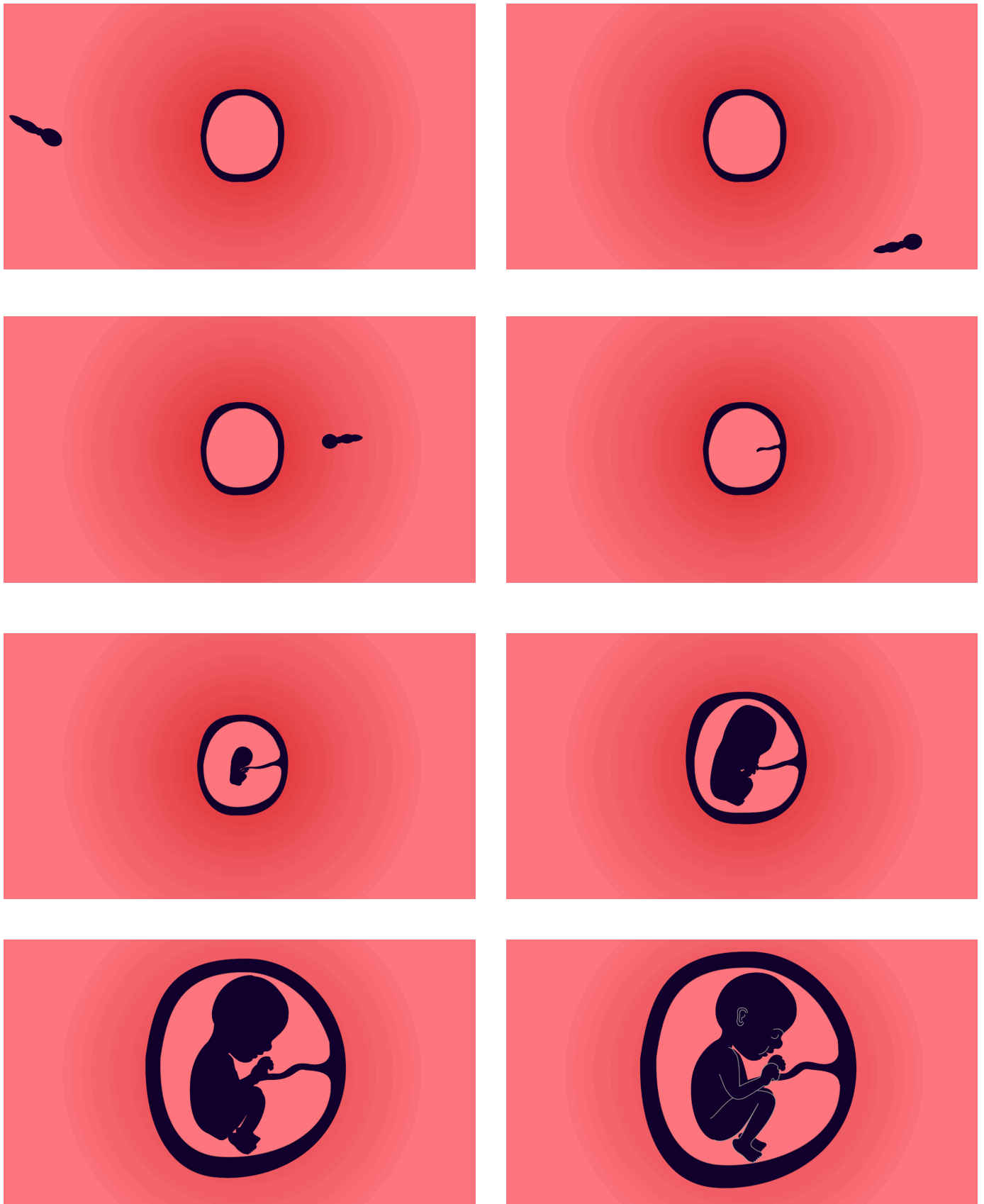
Animation Outputs

Animation 1 - Baby in mother's womb



gif : https://drive.google.com/file/d/1LEc_jV3UyQbTcRPru24ve4-3VoTZg7mu/view?usp=sharing

Animation 2 - Fetal Development



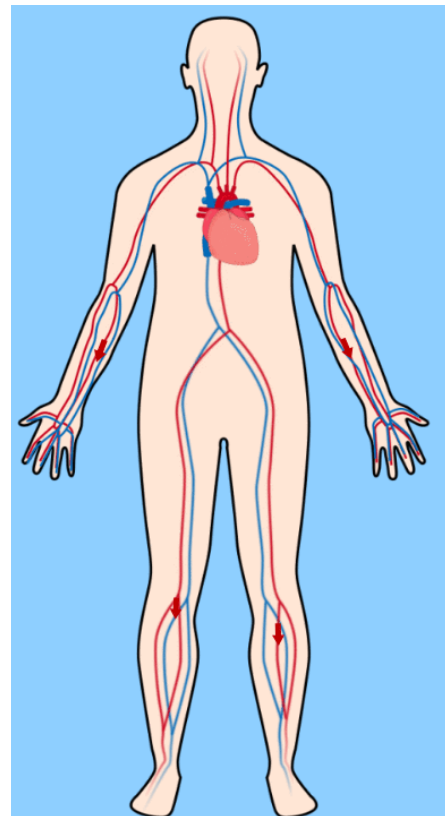
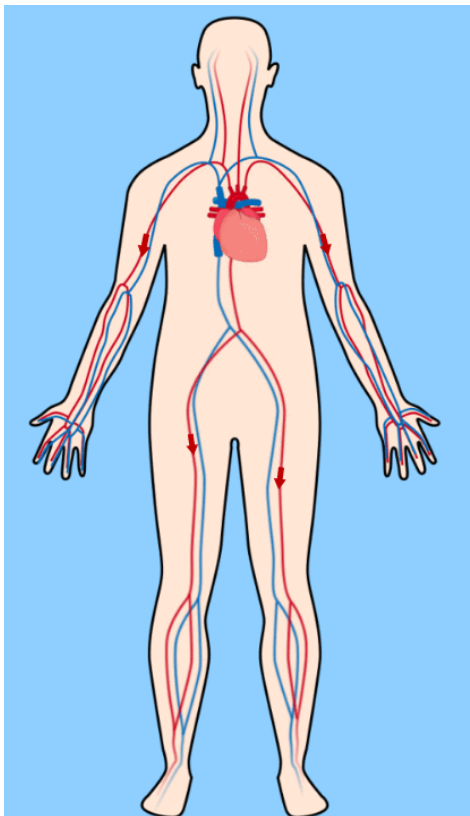
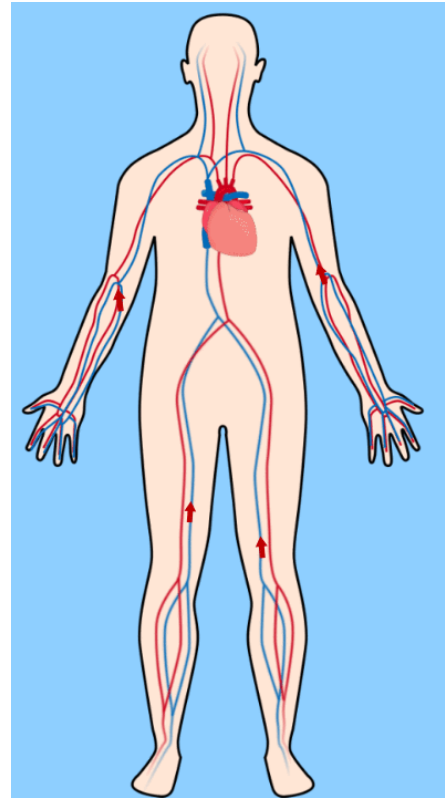
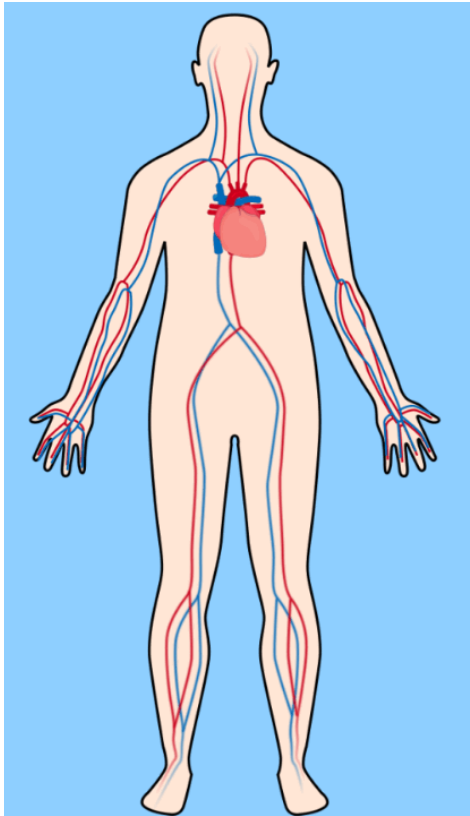
gif : <https://drive.google.com/file/d/1i5KQCCfj1O6wPDULA2kgalj6CujljKTB/view?usp=sharing>

Animation 3 - Baby's growth (0-2 years)



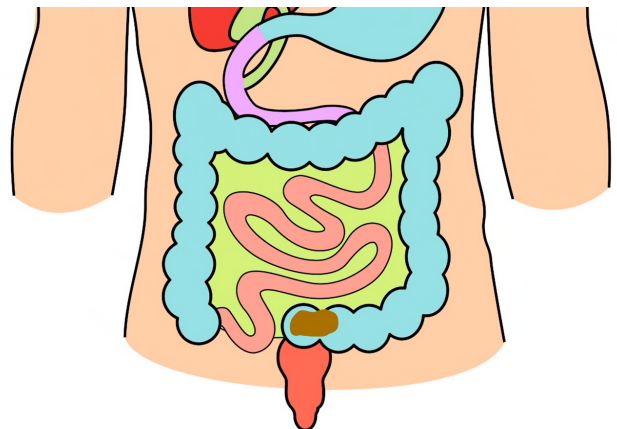
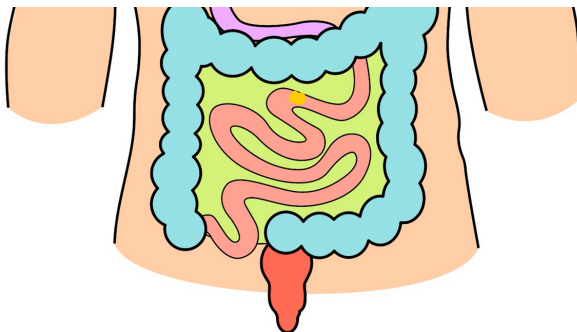
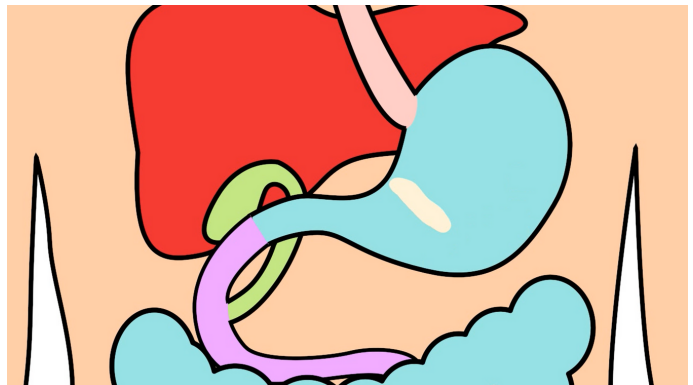
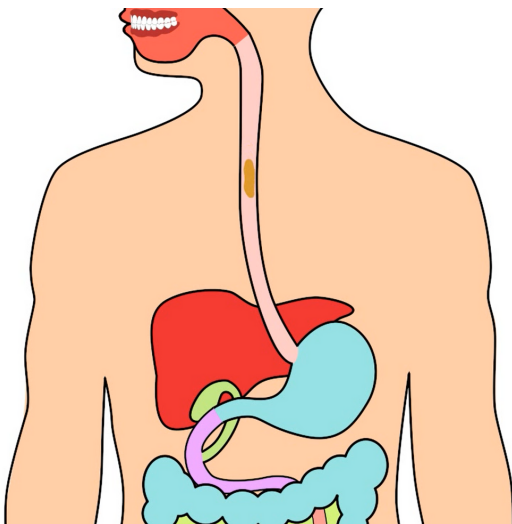
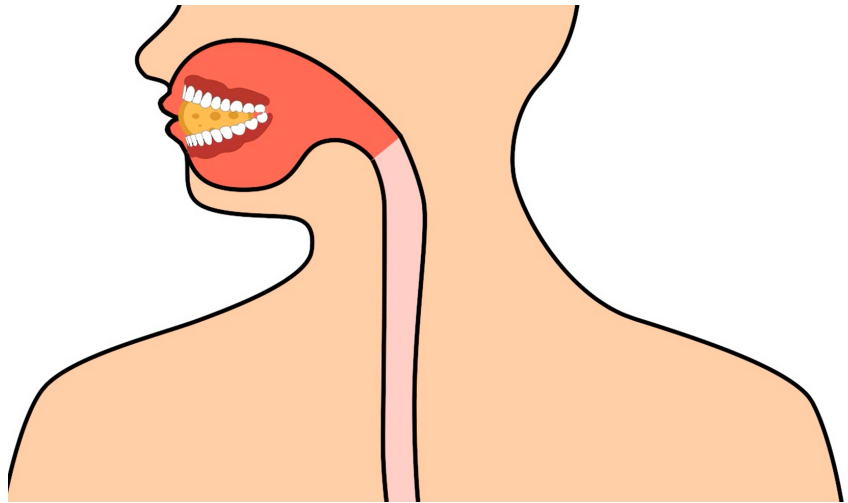
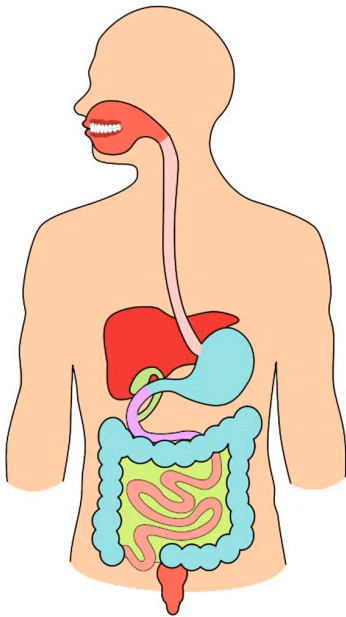
gif : <https://drive.google.com/file/d/1SCKXvggFgTosve3mRiy6rMbHjZolZt9S/view?usp=sharing>

Animation 4 - Pumping of Heart



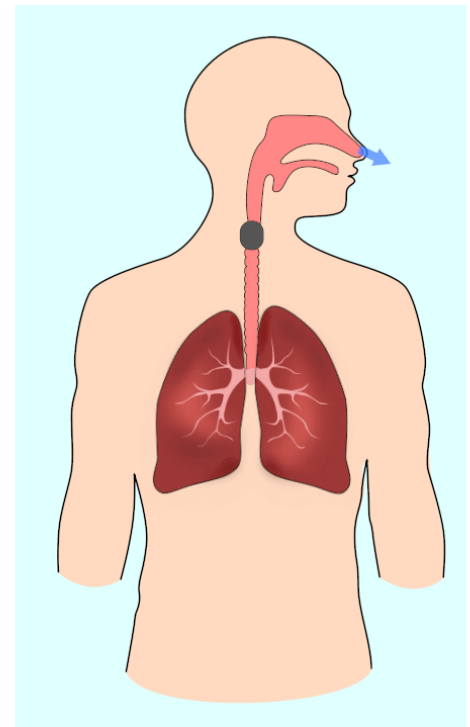
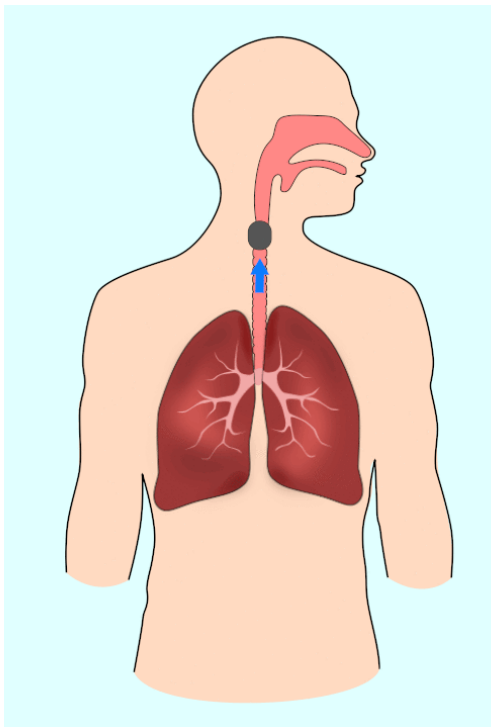
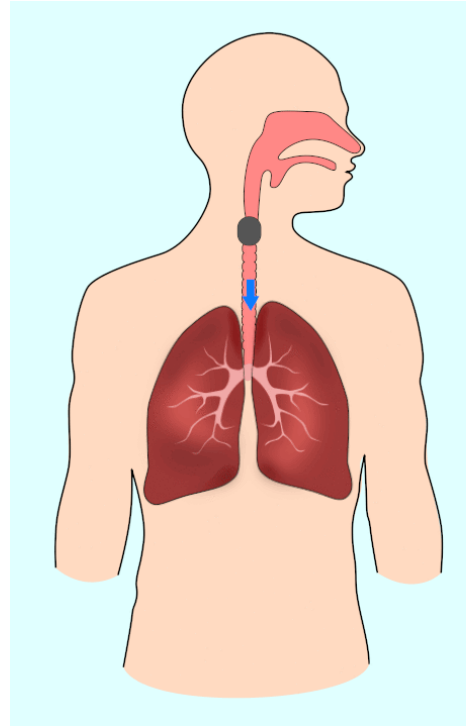
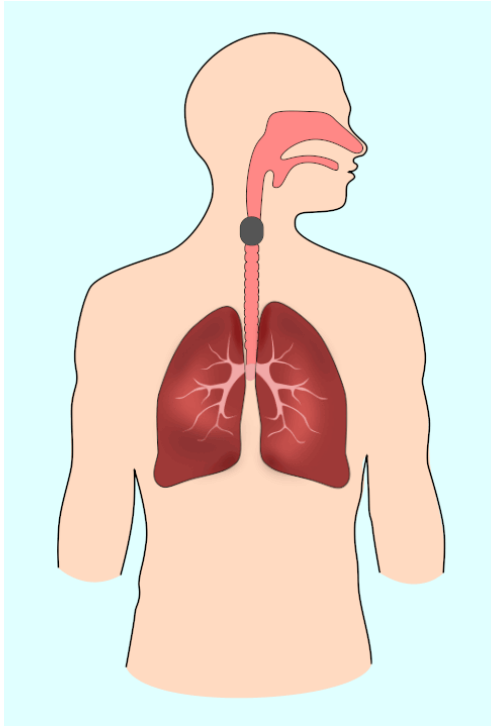
gif : https://drive.google.com/file/d/1BUhIZIB0LlobBe8r5TMoW72KVq_GGvsT/view?usp=sharing

Animation 5 - Functioning of a Digestive system



gif : https://drive.google.com/file/d/1LK4-cODmkFMh_2ezCCNciGJ6b-Mw3VKp/view?usp=sharing

Animation 6 - Lungs animation



gif : https://drive.google.com/file/d/1uZnJgjpO4lUJw_2Pl0d0VbZNBHCA4ayt/view?usp=sharing

Animation 7 - Man coughing



gif : <https://drive.google.com/file/d/1k-T5PRL5XazVNL2DWghwg72Mv1E9v-iW/view?usp=sharing>

Animation 8 - Man shivering in cold



gif : <https://drive.google.com/file/d/1l6lYIXlgDqkz7HuGRSaiAfq5ABJVY7Vk/view?usp=sharing>