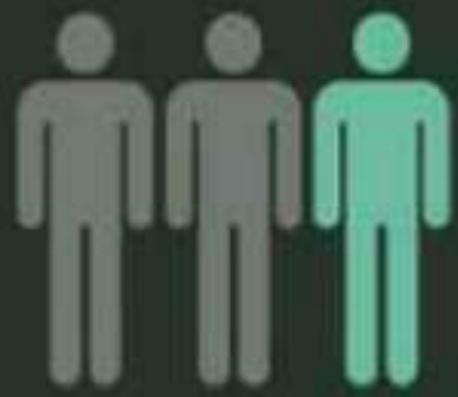


# VISUALIZING THE FIGHT AGAINST CANCER

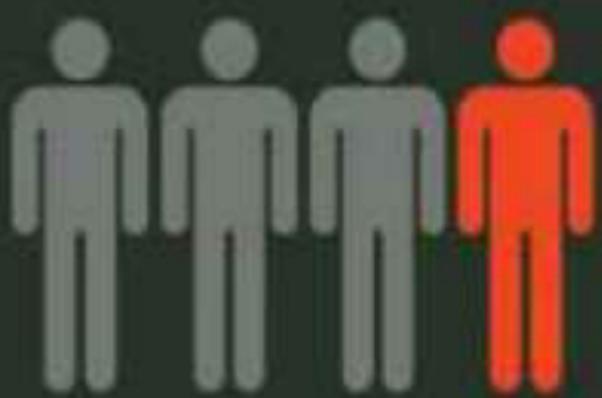


VISUALIZING101

AAKANKSHA KUMAR  
ABHISHEK JAIN  
NIKITA GUPTA



1 in 3  
people will  
contract cancer.



1 in 4  
people will die  
from the disease.

**20% of all cancers worldwide are caused by a chronic infection.**

I.E., human papillomavirus (HPV) causes cervical cancer and hepatitis B virus (HBV) causes liver cancer.

**Within five years,  
cancer will surpass heart disease  
as the leading cause of death.**

according to the American Hospital Association.









## All cancers

- HRT Taking any type of Hormone Replacement Therapy
- Salt Having at least 6 grams a day
- Not breast-feeding Breastfeeding each child for less than 6 months
- Inactivity Being moderately active for less than 150 minutes a week

- Low fibre diet Having less than 23 grams of fibre a day
- Radiation Being exposed to any ionising radiation, including background levels such as those released from the earth

- Red meat Eating any red or processed meat

- Infections Exposure to cancer-causing infections like HPV and Hepatitis B or C

- Sunlight & sunbeds Getting more UV than was typical for people born in 1903

- Occupation Being exposed to cancer-causing chemicals or conditions at work

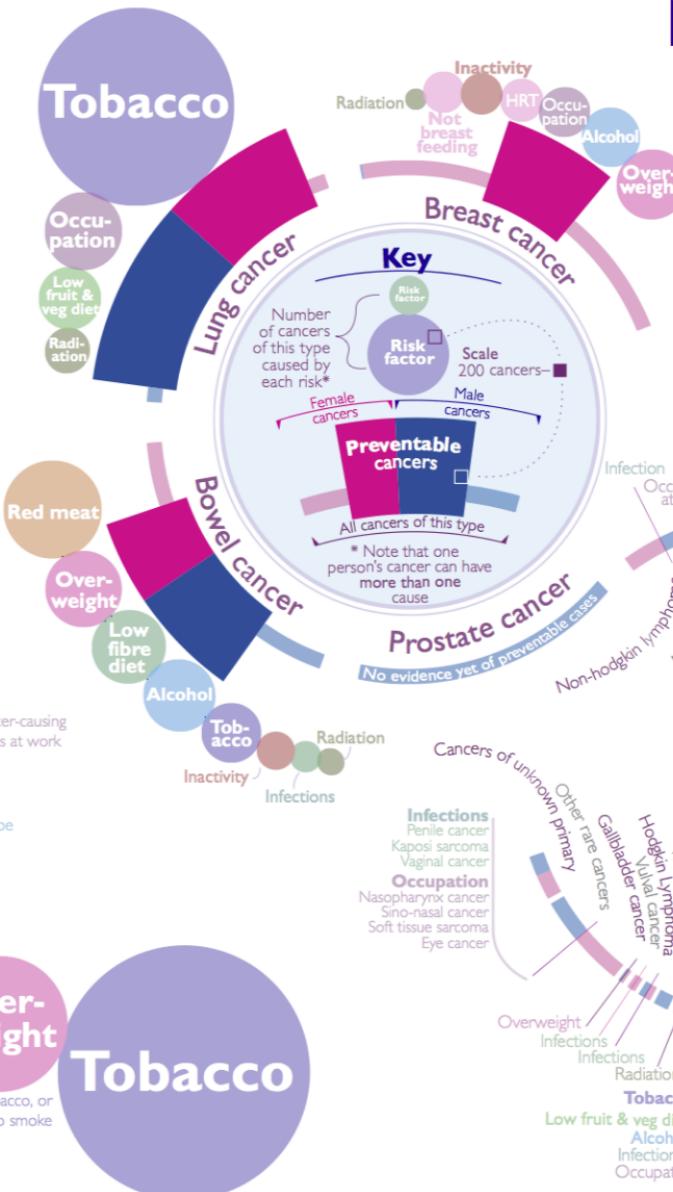
- Alcohol Drinking any type of alcohol

- Low fruit & veg diet Getting fewer than five portions a day

- Over-weight Having a BMI of 25 kg/m<sup>2</sup> or over

- Tobacco Smoking or chewing any form of tobacco, or exposure to environmental tobacco smoke

*Together we will beat cancer*

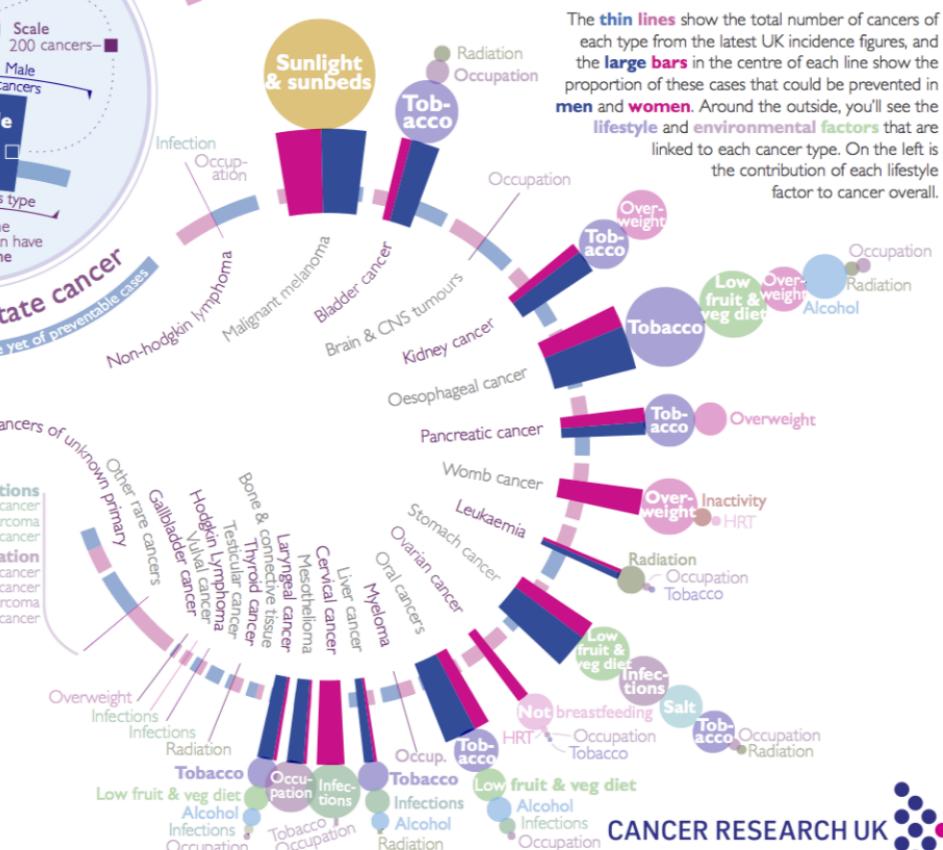


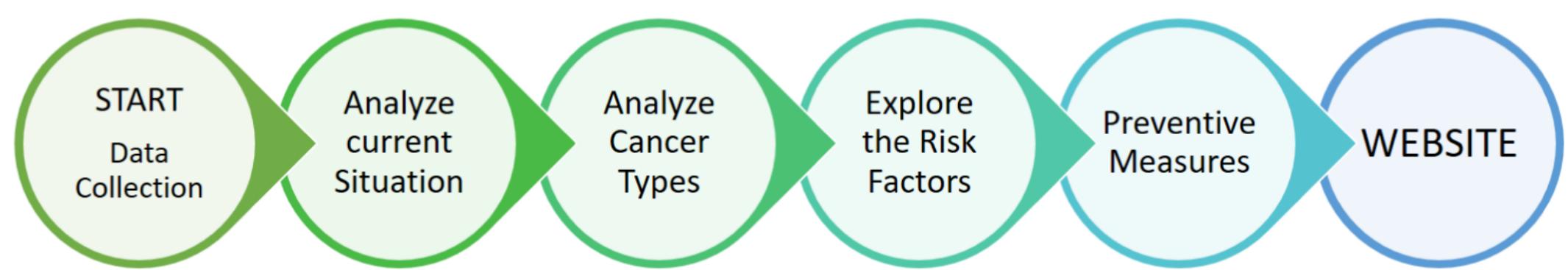
# How many cancers can be prevented?

Although there are some things we can't control about our cancer risk, decades of research have clearly shown that by living a **healthy life**, people can reduce the risk of developing the disease. But how many cancers in the UK are really caused by things we can change?

This diagram shows the results of new research funded by Cancer Research UK, which aims to show the number of cancer cases in the UK that could be prevented by known lifestyle and environmental factors, like being a **non-smoker**, keeping a **healthy weight**, drinking **less alcohol**, eating a healthy, **balanced diet**, and **avoiding** being exposed to certain infections or radiation.

The **thin lines** show the total number of cancers of each type from the latest UK incidence figures, and the **large bars** in the centre of each line show the proportion of these cases that could be prevented in **men** and **women**. Around the outside, you'll see the **lifestyle and environmental factors** that are linked to each cancer type. On the left is the contribution of each lifestyle factor to cancer overall.





HTML5  
ggplot2 mLib  
Node.js  
Information D3.js  
Google Charts R  
CSS Visualization  
Technologies React  
Python JavaScript  
Bootstrap  
Plotly

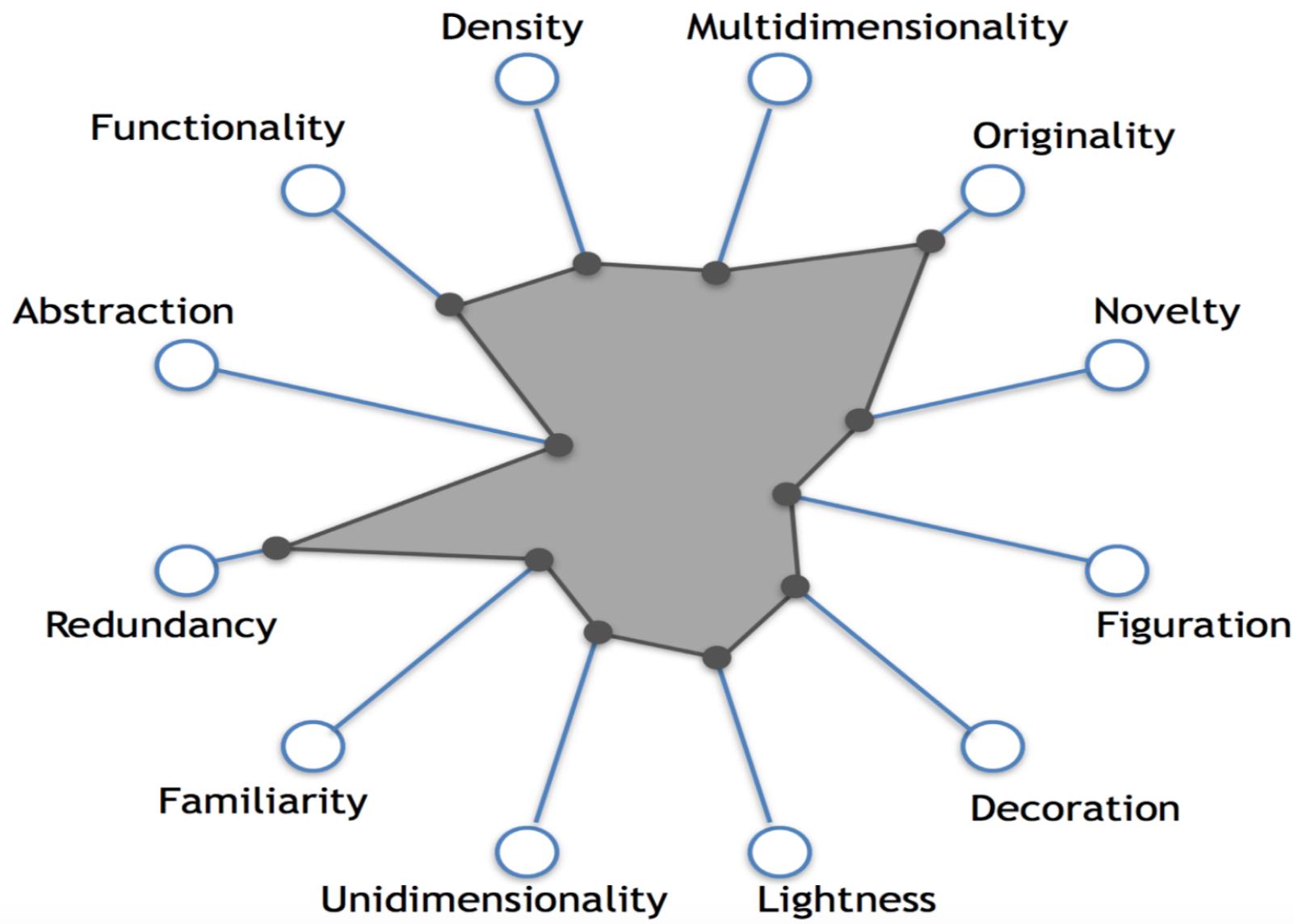


World Health  
Organization



Centers for Disease Control and Prevention  
CDC 24/7: Saving Lives, Protecting People™

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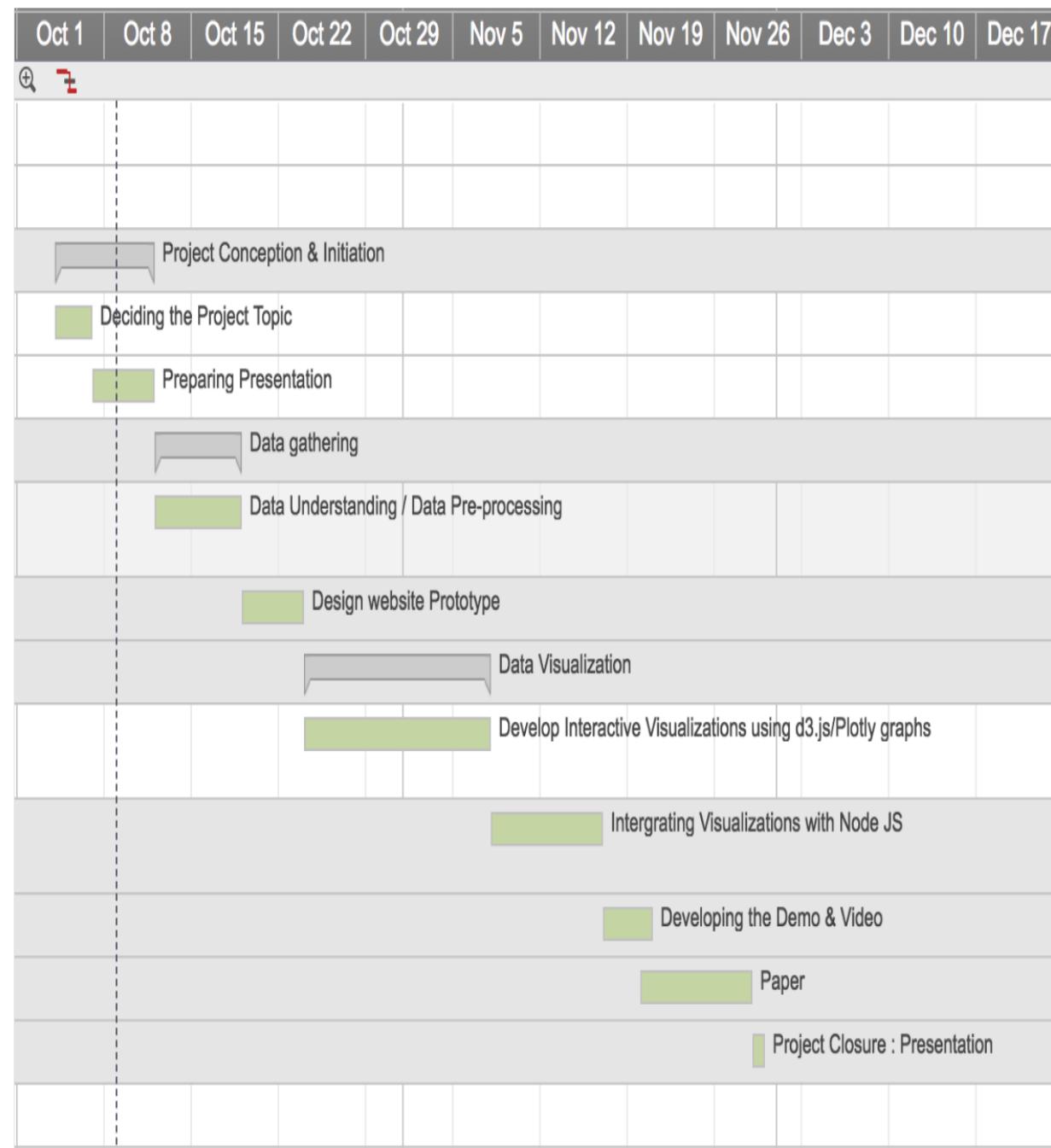








Task Name	Start Date	End Date	Durat...	% Complete	Notes
<b>- Project Conception &amp; Initiation</b>	<b>10/04/17</b>	<b>10/11/17</b>	<b>6d</b>		
Deciding the Project Topic	10/04/17	10/06/17	3d		
Preparing Presentation	10/07/17	10/11/17	4d		
<b>- Data gathering</b>	<b>10/12/17</b>	<b>10/18/17</b>	<b>5d</b>		
Data Understanding / Data Pre-processing	10/12/17	10/18/17	5d		
<b>Design website Prototype</b>	<b>10/19/17</b>	<b>10/23/17</b>	<b>3d</b>		
<b>- Data Visualization</b>	<b>10/24/17</b>	<b>11/07/17</b>	<b>11d</b>		
Develop Interactive Visualizations using d3.js/Plotly graphs	10/24/17	11/07/17	11d		
<b>Intergrating Visualizations with Node JS</b>	<b>11/08/17</b>	<b>11/16/17</b>	<b>7d</b>		
<b>Developing the Demo &amp; Video</b>	<b>11/17/17</b>	<b>11/20/17</b>	<b>2d</b>		
<b>Paper</b>	<b>11/20/17</b>	<b>11/28/17</b>	<b>7d</b>		
<b>Project Closure : Presentation</b>	<b>11/29/17</b>	<b>11/29/17</b>	<b>1d</b>		





KEEP  
CALM

AND

THANK YOU FOR WATCHING

OUR PRESENTATION