

“INNOWAVE”

THE WALL MAGAZINE

BY



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Why Is Javascript So Popular?

The Computer language landscape is even evolving in the modern tech world. Much like any human trend, Computer languages used to develop websites are constantly changing to suite the need for a cutting edge website, and only the best stick get to stick around. Today I'm looking at the language that has been dubbed by the web development community the most popular Computer language, JavaScript.

JavaScript is the Only language you can use to build an entire website, can be used both to create the user interface side which deals with the look and feel of the site (front-end) and the server side which deals with information storage and databases (Back End). Also it's what makes a site interactive and basically transformed the internet by adding this functionality. Now it's ubiquitous with the internet and used on nearly every website out there.

JavaScript can be coupled with many powerful tools that give it a ton of utility: JSON, AJAX, Node.js, MongoDB, jQuery. These tools take this "messy" looking language to the next level. Node.js/MongoDB allows for it to be used as a backend language, AJAX gives it optimized loading times and a fabulous user experience and jQuery gives it an extensive code library that makes writing complex JavaScript quicker/easier. The tools it can harness are many and powerful in their own right.

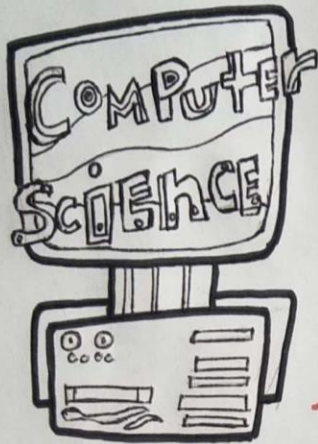
It's supported by pretty much any browser out there, giving developers the confidence that they're code will work, no matter what computer it's on.

Shivam Mani Tripathi - IT, 2nd Year

JS

AUGMENTED

Reality



Augmented Reality (AR) is an interactive experience of a real-world environment where the objects that reside in the real world are "augmented" by computer generated perceptual information, sometimes across multiple sensory modalities, including visual, auditory, haptic, somatosensory and olfactory. It is so not as simple as display of data but through the integration of immersive sensations that are perceived as natural parts of an environment.

Technologies that can be used are: For hardware, processors, display sensors and input devices. For display, AR glasses, HUD (Head-Up Display), Contact lenses etc.

SWARNIM

MADE BY: SWARNIM
(IT 2nd yr)

PORTABLE TV

A remote with an antenna and a projector to project TV channels on the wall. This idea will replace set top box. Also there will be a lock button on the remote to lock the screen on the wall. One would be able to see TV on any wall of the house. This would remove the dependency of sitting at one place only.



Made By: Bhumiika
Dhingra
Roll No- 30.
B.Tech(IT) 2nd Year.

WHAT IS AUGMENTED REALITY?

It refers to a technology that overlays information and virtual objects on real-world scenes in real-time. It uses existing environment and adds information to it to make a new artificial environment.

AUGMENTED REALITY IN HEALTHCARE

There are incredibly exciting applications for AR in healthcare. From operating MRI equipment to performing complex surgeries, AR holds potential in many areas.



AUGMENTED REALITY IN RETAIL

With AR, users can view a product they might be interested in buying in the showroom, and customize it.

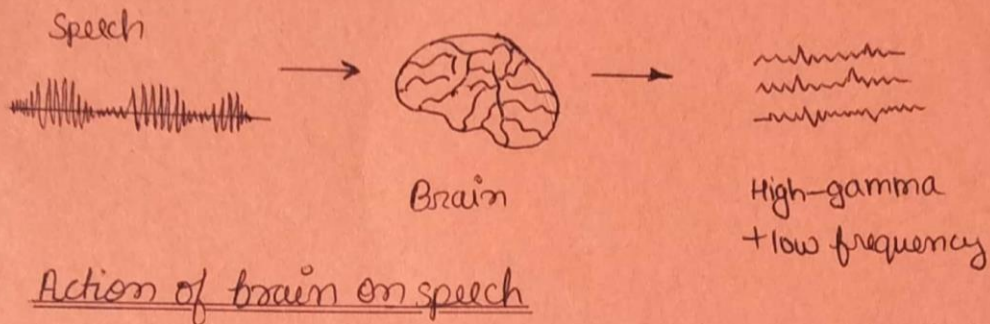
AUGMENTED REALITY IN EDUCATION

With AR students can view their classes for more rich learning environment. Students learning Astronomy might see a full map of solar system.



VIDUSHI HAKSAR
BTech (IT)
2nd Year

Vocoder



New York's Columbia University neuroengineers and CS-department have developed a system that can convert human brain signals directly into speech using Artificial Intelligence. Researchers revealed a computer algorithm 'vocoder' was used.

"This is the same technology used by Amazon Echo and Apple Siri to give verbal responses to our questions", said Nima Mesgarani.

The vocoder was trained to interpret brain activity. After the training was done, the next phase which was the test of this technology began. The patients listened to a person reading number from 0 to 9 while algorithm started working and translated thought to sound, result was a robotic voice counting from 0 to 9. On major scale the technology was found to be 75% accurate in its operation.

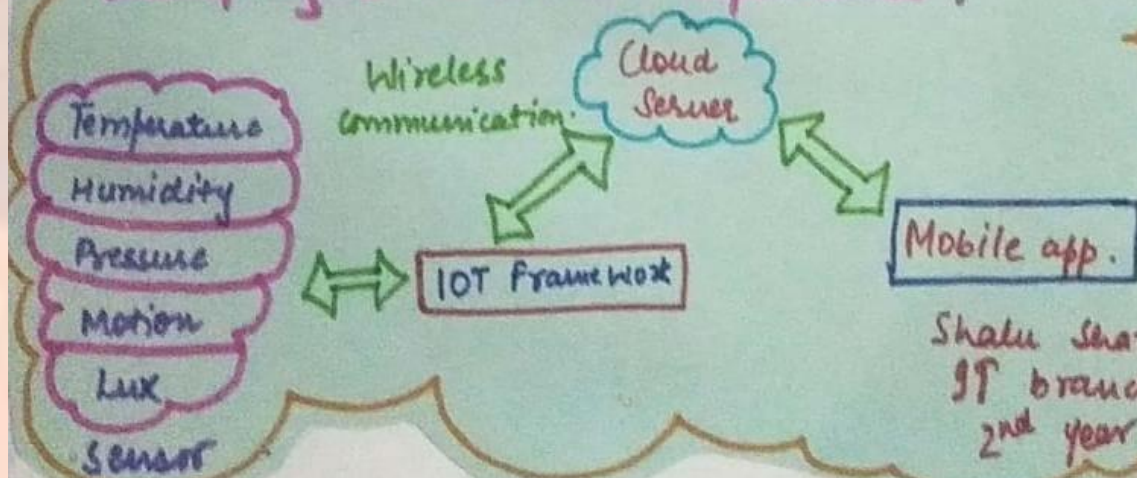
— BY ANKIT AGNIHOTRI
(IT) (1st Year)

INTERNET OF THINGS

One of the biggest tech trends to emerge in recent years is the Internet of Things.

Simply put, the Internet of Things is the idea that all technological devices can be connected to the internet and to each other in an attempt to create the perfect marriage between the physical & digital worlds. How will this impact you?

It depends on your industry. For example, for those who work in Marketing, Advertising, media or business management, IoT could provide a wealth of information on how consumers engage with products by tracking their interactions with digital devices. In turn, this data could be used to optimize marketing campaigns and user experiences.



Shalu Sharma
IT branch
2nd year