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# **WIRED 2.1**


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# EDITORS BEHIND WIRED 2.1

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We the Editors( Batch 2016-20) of the magazine would like to express our special thanks and gratitude to the Computer Science department as well as our team who gave us the golden opportunity to make this magazine WIRED which has also helped us in knowing more and more things about the latest technological and scientific developments.

Secondly we would like to thank our batch mates who helped us lot in finalizing this magazine within the limited time frame

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*“In a world where everyone is a publisher, no one is an editor. And that is the danger that we face today.*”



# 3D Metal Printer

Prashant G

3D Printing or Additive manufacturing is a novel method of manufacturing parts directly from digital model by using layer by layer material build-up approach. This tool-less manufacturing method can produce fully dense metallic parts in short time, with high precision. Features of additive manufacturing like freedom of part design, part complexity, light weighting, part consolidation and design for function are garnering particular interests in metal additive manufacturing for aerospace, oil & gas, marine and automobile applications. Powder bed fusion, in which each powder bed layer is selectively fused by using energy source like laser, is the most promising additive manufacturing technology that can be used for manufacturing small, low volume, complex metallic parts.

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*"If a picture is worth a thousand words,  
A prototype is worth a thousand pictures."*



# Babel-Fish Earbuds

Sherin Philip

In the cult sci-fi classic *The Hitchhiker's Guide to the Galaxy*, you slide a yellow Babel fish into your ear to get translations in an instant. In the real world, Google has come up with an interim solution: a \$159 pair of earbuds, called Pixel Buds. These work with its Pixel smartphones and Google Translate app to produce practically real-time translation.

One person wears the earbuds, while the other holds a phone. The earbud wearer speaks in his or her language—English is the default—and the app translates the talking and plays it aloud on the phone. The person holding the phone responds; this response is translated and played through the earbuds.

Google Translate already has a conversation feature, and its iOS and Android apps let two users speak as it automatically figures out what languages they're using and then translates them. But background noise can make it hard for the app to understand what people are saying, and also to figure out when one person has stopped speaking and it's time to start translating.

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*“The limits of my language means the limits of my world.”*

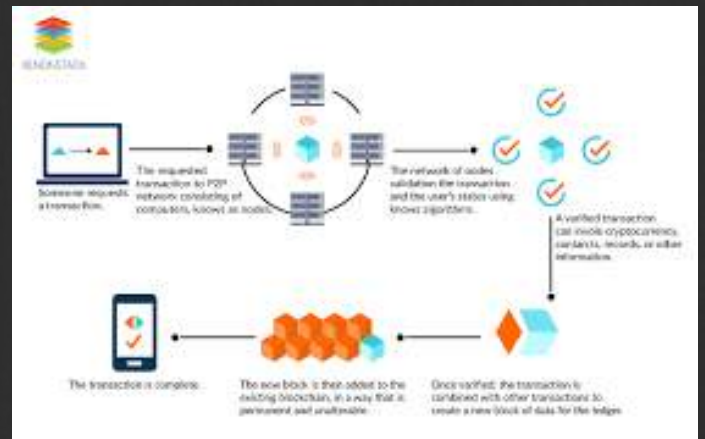
# Blockchain

Sajini Stalin

You may have heard the term “blockchain technology” before, in reference to Bitcoin and other cryptocurrencies. For the uninitiated, the term might seem abstract with little real meaning on the surface. However, blockchain technology is a critical element of cryptocurrencies — without it, digital currencies like Bitcoin would not exist.

Blockchain was invented by Satoshi Nakamoto in 2008 to serve as the public transaction ledger of the cryptocurrency bitcoin. The invention of the blockchain for bitcoin made it the first digital currency to solve the double-spending problem without the need of a trusted authority or central server. The bitcoin design has inspired other applications and blockchains which are readable by the public are widely used by cryptocurrencies. Private blockchains have been proposed for business use.

A blockchain is a decentralized, distributed and public digital ledger that is used to record transactions across many computers so that the record cannot be altered retroactively without the alteration of all subsequent blocks and the consensus of the network. This allows the participants to verify and audit transactions inexpensively.



A blockchain database is managed autonomously using a peer-to-peer network and a distributed timestamping server. They are authenticated by mass collaboration powered by collective self-interests. The result is a robust workflow where participants' uncertainty regarding data security is marginal. The use of a blockchain removes the characteristic of infinite reproducibility from a digital asset. It confirms that each unit of value was transferred only once, solving the long-standing problem of double spending. Blockchains have been described as a value-exchange protocol. This blockchain-based exchange of value can be completed quicker, safer and cheaper than with traditional systems.

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*The Internet is programmable information. The blockchain is programmable scarcity.*

# LOGO'S DECODED

Sidharth K



The logo designer, Rob Janoff had later explained two reasons why he used a bitten apple for the logo :

- i) He didn't want people to confuse it with a tomato.
- ii) He tried punning on words 'bite' and 'byte' (to lend a geeky flavor to the fruit)



The logo integrates the ideas of analog and digital technology into one, using the V and A to represent an analog wave, and the I and O to represent binary from the digital world



Orange/red is Microsoft's Office products. Red means business, because it suggests a busy life, quick and hot, which means Office is meant to get things done nice and quick.

Green is Microsoft Gaming, mainly Xbox. Green is fun and the 'Go!' colour, meaning maximum fun.

Yellow is bold and strong, which is what Microsoft hardware is built to be, long-lasting and efficient.



The Ubuntu logo depicts an overhead shot of three people joined together, holding hands, and looking up towards the sky. All in all, a rather clever and fitting logo/name combination, as the word Ubuntu means "Humanity".

# Travelloged

-Nikil S Kumar



On this note, we embarked on our journey to learn something new, through the bosom of the Karnataka's pride, Mysore. Ace Components, became our source of knowledge and perplexity as we got an insight on the working of the Industrial factory.

We then alighted on the magnificent medieval architecture of Mysore and continued our Journey while enjoying the enchanting beauty of nature, through the foothills of Udagamandalam, also known as Ooty.

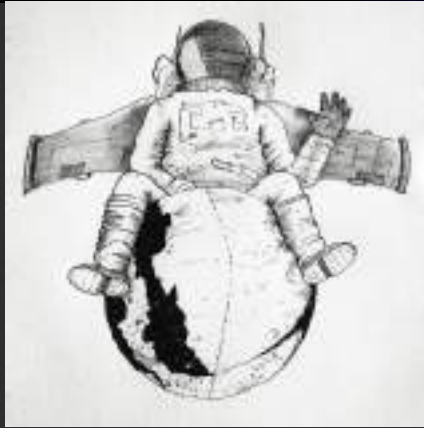
As we trotted through the Pine forest in Ooty we stumbled upon many photogenic and entertaining moments. As the night fell over the day, the blaze of the campfire rose up and ignited the party spirit amongst us. It descended onto a peaceful retreat as we returned back to our regular and simple lives.

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*“Those who move forward with a high spirit will find that things will always work out.”*

# RETRO GALLERY

Navaneeth Asok





# IT'S ONAM

Sara Abraham



It's ONAM!!

While the whole world celebrates variety of festivals, Onam is the most awaited festival for the nadan malayalees. While the festival goes on for couple of days, students await their moments to dress up in traditional attire at the college. Every branch at the college have a procession to the college center with what we locally call as chanda mella, making the whole process lively and a sort after event.



Of course the CS branch made the best entry, (debatable topic), but still a fun event to watch and be a part of. We had many other events which are followed as a part of tradition. And, the most sort after Payasam is given at the end of the event as a departing gift as continue our wait for next year.

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*“Onam is an occasion for people to remind themselves of the allpervasive nature of the divine”*