



INTERVIEW Q & A

Q. When Is A Template A Better Solution Than A Base Class?

When you are designing a generic class to contain or otherwise manage objects of other types, when the format and behavior of those other types are unimportant to their containment or management, and particularly when those other types are unknown (thus the genericity) to the designer of the container or manager class.

Prior to templates, you had to use inheritance; your design might include a generic List container class and an application-specific Employee class. To put employees in a list, a Listed Employee class is multiplying derived (contrived) from the Employee and List classes. These solutions were unwieldy and error-prone. Templates solved that problem.

Q. Difference between overloading and overriding?

Overloading: When two or more methods in the same class have the same method name but different parameters (i.e. different method signatures).

Overriding: when two methods having the same method name and parameters (i.e., method signature) but one of the methods is in the parent class and the other is in the child class.

Q. Two linked lists L1 and L2 intersects at a particular node N1 and from there all other nodes till the end are common. The length of the lists are not same. What are the possibilities to find N1?

Linear solution is possible let's say we have two pointers say P1 pointing to the first node of L1 and P2 to that of L2. Traverse through both the lists. If P1 reaches L1's last node, point it to the first node of L2 and continue traversing. Do the same thing for P2 when it reaches L2's last node. (By doing this, we are balancing the difference in the length between the linked lists. The shorter one will get over soon and by redirecting to longer list's head, it will traverse the extra nodes also.) Finally, they will meet at the Intersection node.

BLOG RECAP: Article from our members

Google fined on sharing data with children.

Shashank Kesharwani
Core Committee member

Data is valuable because it tells companies about their audience's interests, allowing them to improve their customers' experiences. Companies can derive value from their own data and they can purchase it from other sources. Marketing teams, agencies, and advertisers use data to learn more about their audience's preferences, allowing them to create advertisements and online content that more reliably appeals to users. When marketers know more about their customers, they know better how to meet their needs, resulting in a happier client and improved sales figures for their companies. YouTube services provided by Google had been accused of tracking viewers of children's channels using cookies without parental consent and using those cookies to deliver millions of dollars in targeted advertisements to those viewers.

"A financial settlement is no substitute for strict reforms that will stop Google and other tech companies from invading our privacy," Mr. Blumenthal said. "I continue to be alarmed by Big Techs policies and practices that invade children's lives."

#What's Trending

Top Graphic Designing Trends

- 1. 3D design and typography
- 2. Asymmetrical layouts
- 3. Art Deco
- 4. Modern Mid-Century Modern
- 5. The evolution of duotones and gradients
- 6. Warm and moody color palettes for photos
- 7. Light and delicate custom illustrations
- 8. Buxom serifs
- 9. Open compositions
- 10. Isometric design

Top tools for Graphic Designers

- 1. Pixlr
- 2. Wacom Bamboo
- 3. Adobe Creative Suite
- 4. Visual CSS Tools
- 5. PicMarkr
- 6. InDesign Secret
- 7. Pantone Color Guides
- 8. DeviantART
- 9. Icon Finder
- 10. PageCrush

Did you Know ?

In 2010, the United States Air Force used 1,760 PlayStation 3's to build a supercomputer for the Department of Defense. They used PS3's because it was more cost efficient and "green".

Critics denounced the agreement, dismissing the fine as paltry and the required changes as inadequate for protecting children's privacy. The settlement was approved by a 3-2 vote of the FTC commissioners, with the two Democrats calling for tougher penalties. "The terms of the settlement were not even significant enough to make Google issue a warning to its investors." Democratic commissioner Rohit Chopra said. But critics of the settlement, including Senator Edward J. Markey, Democrat of Massachusetts, described the \$170 million penalty as a slap on the wrist for one of the world's richest companies.

Google agreed to pay a \$170 million fine to settle charges to settle charges that it illegally collected and shared data from children on its YouTube video service without consent of their parents, US official announced. The settlement also calls for YouTube to change the way it handles children's consent. YouTube also agreed to create a system that asks video channel owners to identify the children's content they post so that targeted ads are not placed in such videos.

YouTube said that not only had it agreed to stop placing targeted ads on children's videos, it would also stop gathering personal data about anyone who watched such videos, even if the company believed that the viewer was an adult. The company also said it would eliminate features on children's videos, like comments and notifications, that involved the use of personal data.

The changes required under the agreement could limit how much video makers earn on the platform because while they still make money on some kinds of ads on children's videos, they no longer be able to profit from ads targeted at children. The settlement made is likely to have implications beyond YouTube.

This is the whole point of technology. It creates an appetite for immortality on one hand. It threatens universal extinction on the other. Technology is lust removed from nature.

- Don DeLillo

Chinese Shoppers Adopt Facial Payments

Anshumaan Singh

Core Committee member

No cash, no cards, no wallet, and no smartphones: China's shoppers are increasingly purchasing goods with just a turn of their heads as the country embraces facial payment technology.

China's mobile payment infrastructure is one of the most advanced in the world, but the new systems — which require only face recognition — being rolled out nationwide could make even QR

Customers simply make a purchase by posing in front of point-of-sale (POS) machines equipped with cameras, after linking an image of their face to a digital payment system or bank account.

The software is already widely used, often to monitor citizens — it has been credited with nabbing jaywalkers and catching criminals.

Despite the concerns over data security and privacy, consumers seem unperturbed as facial recognition payment hits the high streets. Alipay — the financial arm of ecommerce giant Alibaba — has been leading the charge in China with devices already in 100 cities.

The firm is predicting enormous growth in the sector and recently launched an upgrade of its "Smile-to-Pay" system, using a machine roughly the size of an iPad. Tencent, which runs the WeChat app with 600 million users, unveiled its new facial payment machine called "Frog Pro" last month.

Hacking of Twitter CEO Jack Dorsey's account highlights dangers of 'SIM swap' fraud

Rajat Sablok

Core Committee member

At a point when social media consumes 75% of the time we spend on our phones, we take it for granted that everything we do/own online, is controlled and owned by us. Jack Dorsey, CEO of Twitter, undoubtedly believed the same.

He was proven wrong when The Chuckling Squad briefly took control of his account. The offensive messages that were posted from his account used the 'n-word' and made anti-Semitic comments referencing the Holocaust. They even claimed to have a bomb at the company's headquarters in one of the tweets.

The question of how the hackers gained control of his account did not stand for a long. Jack Dorsey became the victim of the "sim swap" fraud. It enables hackers to take control of a user's mobile number by tricking the network provider into transferring a number. This enables the fraudster gain access not only to social media accounts, but also bank account and other sensitive information. The hackers took control of Jack's mobile number and used 'two-factor authentication' via text message to validate access to his account.

Even though the account was recovered in less than twenty minutes, security officials believe that that should be not be seen as a solution to the problem. It is still not clear how many people have been attacked in this manner, but the number is definitely not small.

How to protect your account, you ask? If your mobile number has stopped working for a longer than usual time, enquire with your network provider to ensure that you haven't fallen victim to the scam. Also register for SMS and call alerts to stay informed about the activities in your bank account. Remember not to share sensitive information on call/SMS.



Resources to help you out

This issue's domain:

Graphic Design

Top Graphic Designing tutorials

1. Taylor Cut Films
2. Vector Slate
3. Canva
4. Shawn Barry
5. Phlearn
6. PiXimperfect
7. Rosie Hardy
8. Creatnprocess
9. Alec Markarian
10. Stephen Looney