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Contenuto del talk

- Il mio percorso di studi
- Le mie esperienze lavorative
- Fare un colloquio con una grande azienda internazionale
- Il ruolo dell'inglese
- Lavorare in Italia e all'estero
- Cultura lavorativa

Capitolo 1

L'università



Matematica Roma Tre

- Laurea in Matematica nel 2007
- Percorso di studi: Algebra, Geometria, Teoria dei Numeri, Informatica.
- Esami in altri dipartimenti e università': Ricerca Operativa, Teoria dei Giochi, Teoria dei Grafi, Grafi e Reti di Flusso, Algoritmi e Strutture Dati
- La tesi: "Solving Strategies and Algorithms for Optimal Graph Partitioning"
- Tutorati e assistenza alla didattica: IN110
- Imprevisti...

E dopo la laurea?

- Insegnamento?
- Lavoro o ricerca?
- Italia o estero?
- Colloqui: Accenture
- Concorsi: Dottorato in Informatica La Sapienza



Capitolo 2

Dottorato di Ricerca

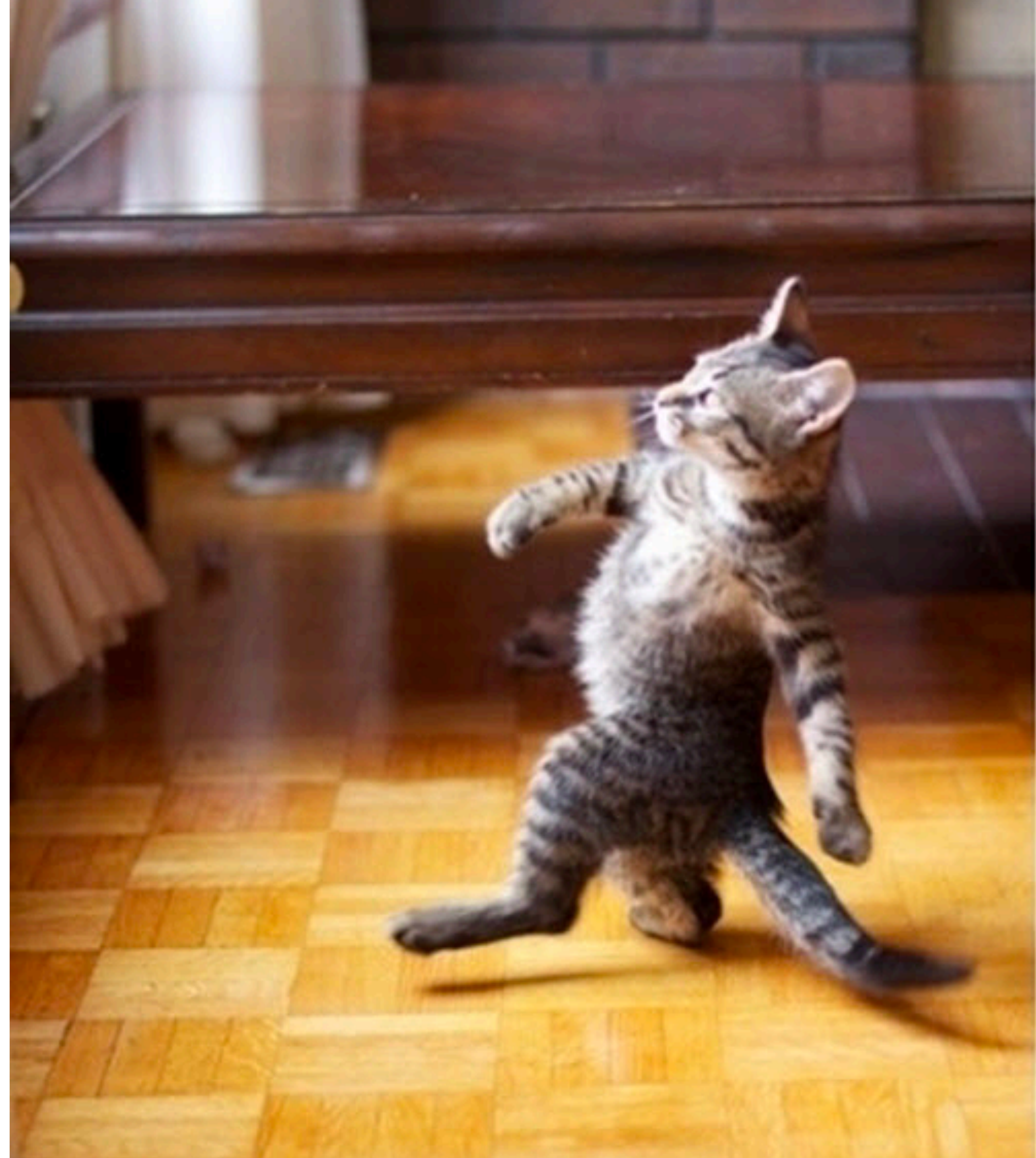


Dottorato in Informatica La Sapienza

- La Matematica
- Temi di ricerca: Opportunistic and pocket switched networks, social network analysis and modelling, wireless ad-hoc networks, sensor networks, algorithms for distributed systems.
- Tesi: "Wireless Ad-Hoc Networks: from Sensing to Socializing"
- Pubblicazioni
- Programmazione: Java
- Assistenza alla didattica
- Periodi di ricerca all'estero: San Diego
- Lavorare soli o in gruppo?
- Organizzare il proprio tempo e lavoro
- Analizzare, ricercare, comunicazione e finalizzare

Capitolo 3

Il mio primo lavoro



Lavorare in CODIN: Progetti e mansioni

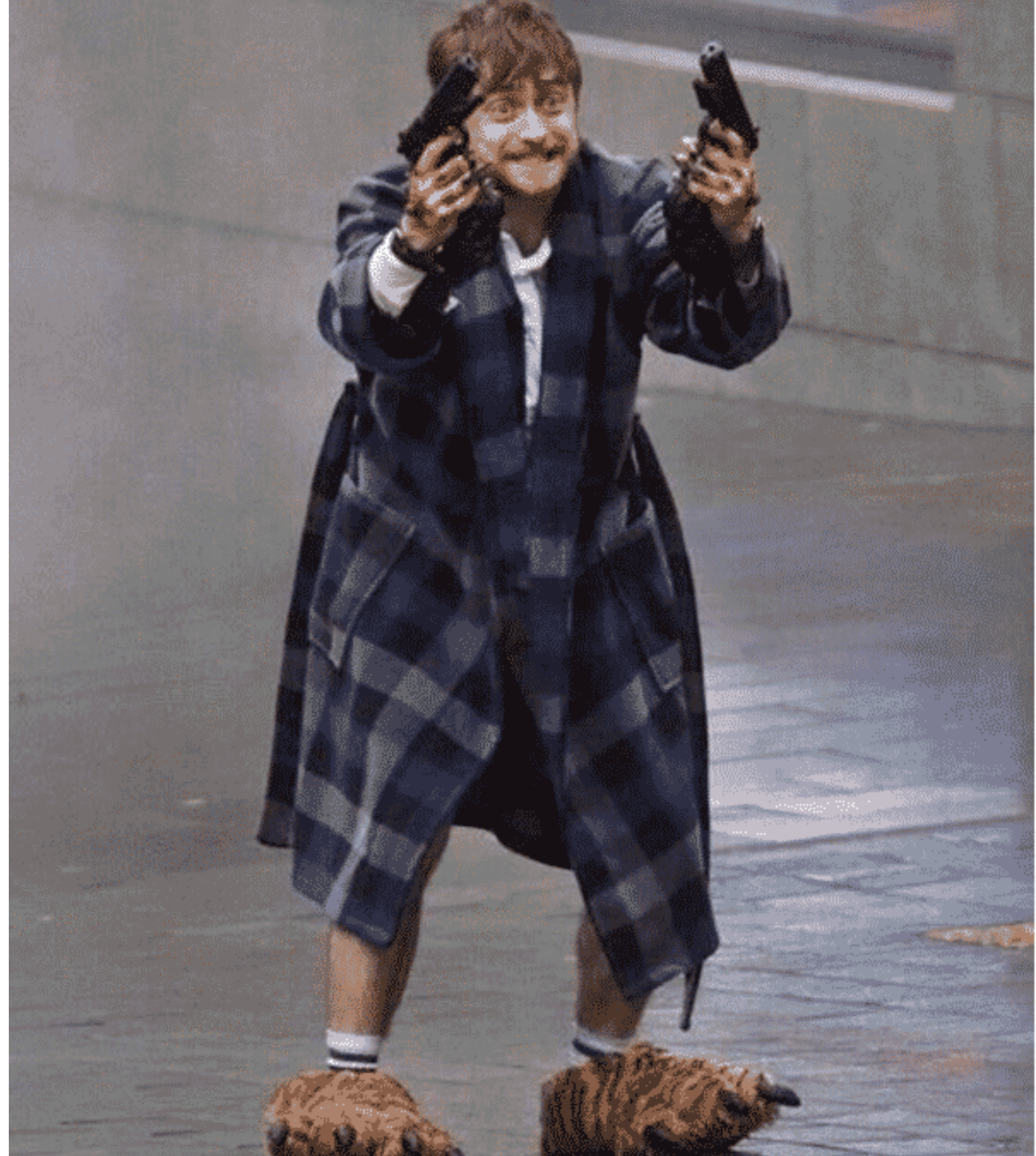
- Azienda di sviluppo software: Sanità, PA, sicurezza, controllo del traffico aereo, agenzie di stampa
- Colloquio informale: motivazioni, aspettative, background accademico
- Mansioni: Sviluppo Software, Definizione e analisi dei requisiti, Ideazione e progettazione di soluzioni SW, Validazione e misurazione delle soluzioni prodotte
- Tecnologie: Java, Javascript, JQuery, HTML, Database (SQL), Web Services
- Progetti:
 - Catalogo delle competenze aziendali, prodotto interno CODIN
 - Prodotti INPS, ad uso interno: Gestione delle pensioni, Gestione delle convenzioni tra INPS e altri enti, Gestione delle pratiche: Riduzione della documentazione cartacea

Lavorare in CODIN: Bagaglio acquisito

- Organizzazione e gestione del proprio tempo, assumersi responsabilità
- Programmare per un prodotto reale
- Lavorare in gruppo: ruoli, punti forza, punti di crescita, disaccordi, condivisione delle conoscenze
- Capire il cliente: ascoltare, capire qual è veramente il problema, comunicare la soluzione, guadagnare fiducia
- Comunicare con diverse figure: Ingegneri Software, Dirigenti, Impiegati amministrativi, ...

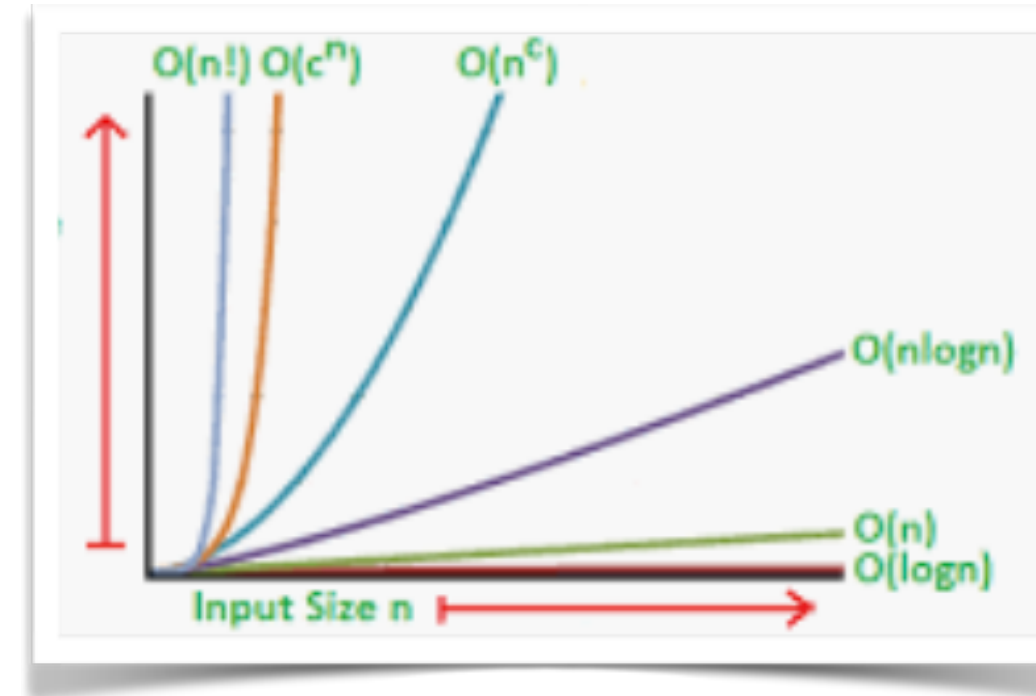
Capitolo 4

Non e' mai troppo presto per avere una crisi di mezza eta'



Guardare all'estero

- Lavorare in una grande compagnia
- Stati Uniti o Europa?
- Qualcuno l'ha fatto prima di voi!
- Colloqui
- Cosa e' stato utile?
 - Libri e corsi: IN110, "Introduzione agli Algoritmi", complessità computazionale, "Cracking the Coding Interview", conoscere le proprie librerie (API)
 - Background: PhD, inglese, esperienza lavorativa
 - Focalizzare sui propri punti di forza
 - Altro? Forse networking, sistemi operativi, DB... Ma non puntare main su niente che non si conosca veramente! Sincerità...



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Overview Package Class Use Tree Deprecated Index Help
Prev Class Next Class Frames No Frames
Summary: Nested | Field | Constr | Method Detail: Field | Constr | Method

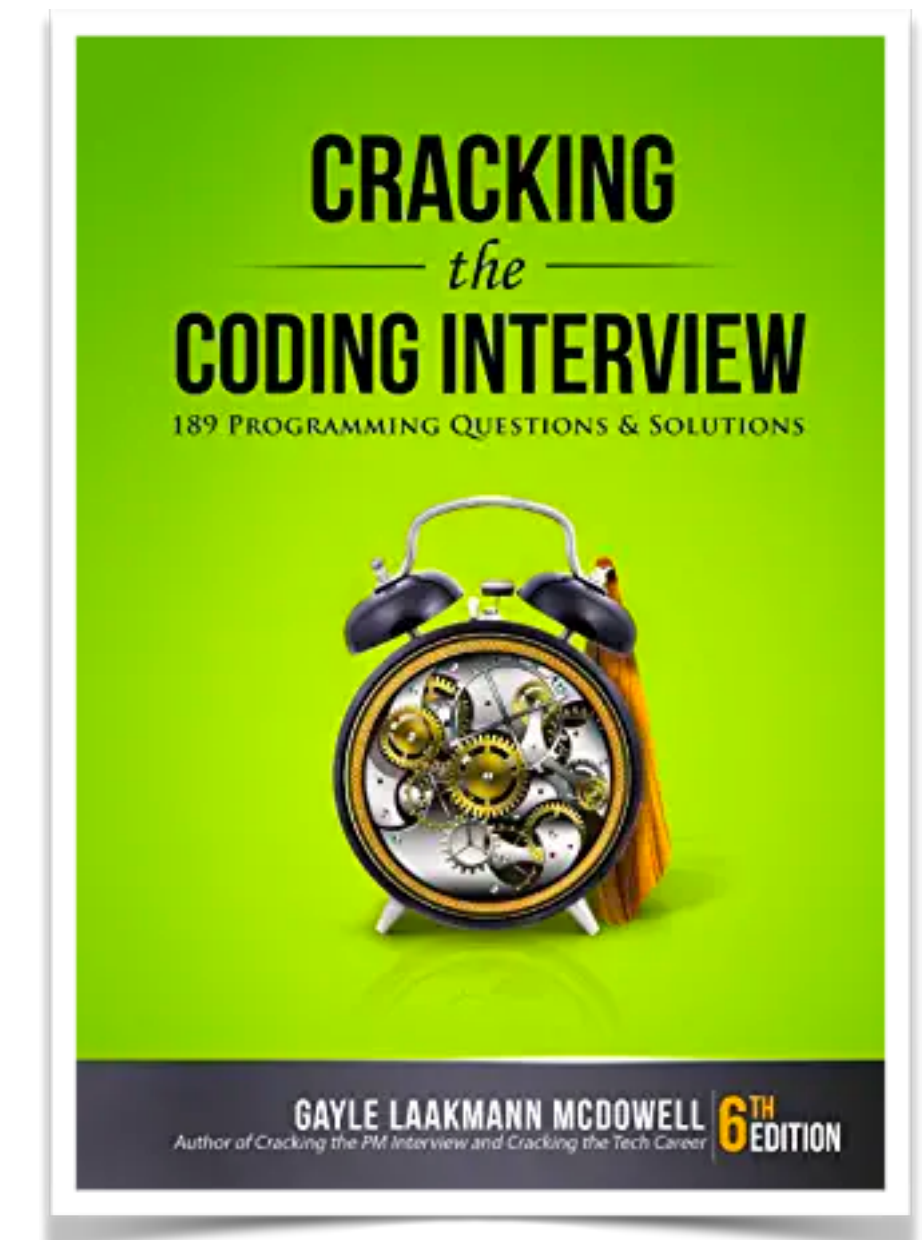
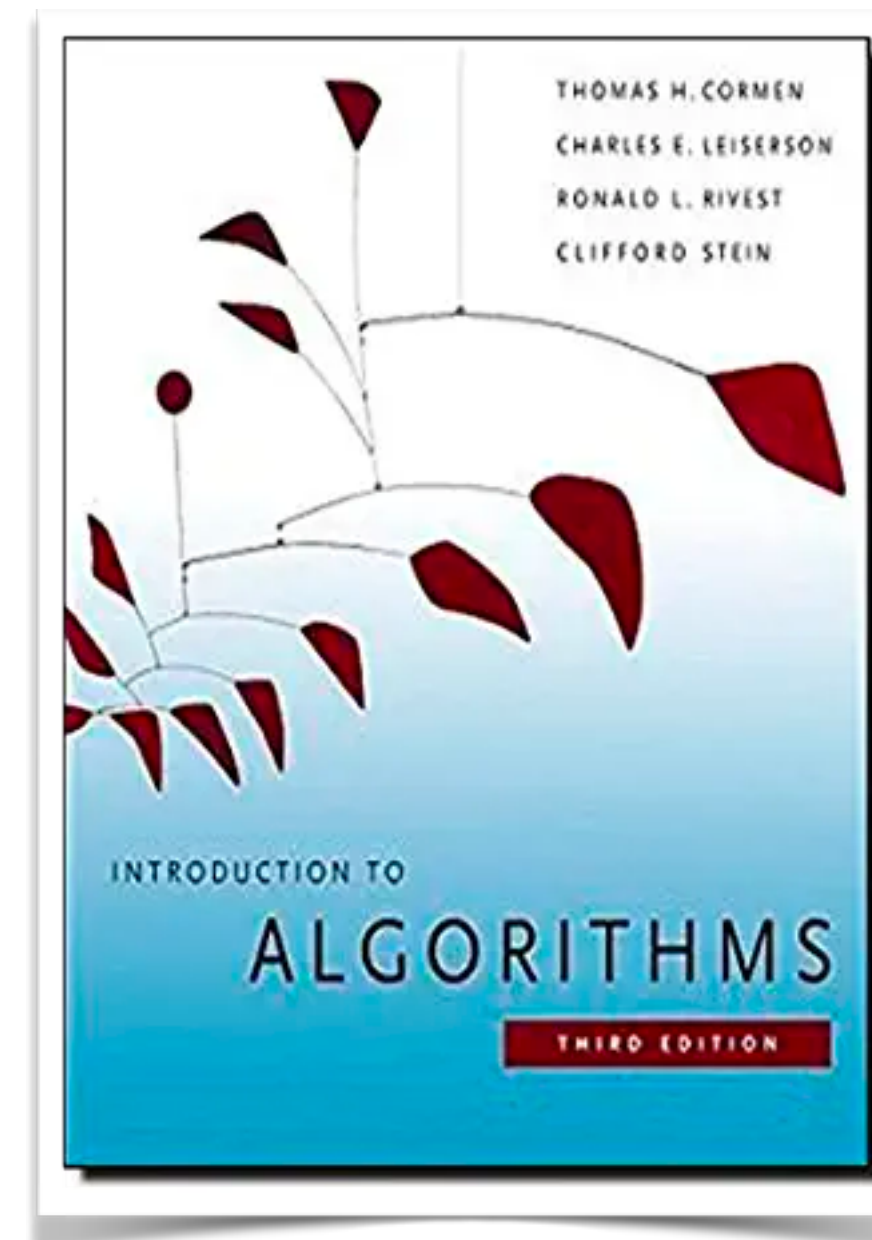
java.util
Class LinkedList<E>

java.lang.Object
java.util.AbstractCollection<E>
java.util.AbstractList<E>
java.util.AbstractSequentialList<E>
java.util.LinkedList<E>

Type Parameters:
E - the type of elements held in this collection

All Implemented Interfaces:
Serializable, Cloneable, Iterable<E>, Collection<E>, Deque<E>, List<E>, Queue<E>

public class LinkedList<E>
    extends AbstractSequentialList<E>
    implements List<E>, Deque<E>, Cloneable, Serializable
Doubly-linked list implementation of the List and Deque interfaces. Implements all optional list operations, and permits all elements (including null).
All of the operations perform as could be expected for a doubly-linked list. Operations that index into the list will traverse the list from the beginning or the end, whichever is closer to the specified index.
Note that this implementation is not synchronized. If multiple threads access a linked list concurrently, and at least one of the threads modifies the list structurally, it must be synchronized externally. (A structural modification is any operation that adds or deletes one or more elements; merely setting the value of an element is not a structural modification.) This is typically accomplished by synchronizing on some object that naturally encapsulates the list. If no such object exists, the list should be "wrapped" using the Collections.synchronizedList method. This is best done at creation time, to prevent accidental unsynchronized access to the list.
List list = Collections.synchronizedList(new LinkedList(...));
The iterators returned by this class's iterator and listIterator methods are fail-fast: if the list is structurally modified at any time after the iterator is created, in any way except through the iterator's own remove or add methods, the iterator will throw a ConcurrentModificationException. Thus, in the face of concurrent modification, the iterator fails quickly and cleanly, rather than risking arbitrary, non-deterministic behavior at an undetermined time in the future.
Note that the fail-fast behavior of an iterator cannot be guaranteed as it is, generally speaking, impossible to make any hard guarantees in the presence of unsynchronized concurrent modification. Fail-fast iterators throw ConcurrentModificationException on a best-effort basis. Therefore, it would be wrong to write a program that depended on this exception for its correctness: the fail-fast behavior of iterators should be used only to detect bugs.
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Il colloquio con una major

- Colloquio per Google e Amazon
- Come contattare: Sito web dell'azienda, portali di offerte lavoro, raccomandazione interna, profilo aperto ai recruiter su LinkedIn
- Interview da remoto: colloquio informale con un recruiter, online coding interview, screening test, colloquio attitudinale
- Interview on-site: behavioural questions, coding questions, data structures questions, design questions
- Tips: fare domande per inquadrare il problema, ragionare ad alta voce, risolvere il problema con gli interviewer, “non lo so ma ci provo”, essere aperto alle critiche e mantenere capacità critica
- Difficoltà linguistiche, “reasonable accommodations”
- Esito: offerta, feedback, seconda chance

Capitolo 5

Lavorare in Amazon



Lavorare in Amazon: Uffici di Edimburgo

- Amazon Development Centre Scotland: Global Talent Management, Advertisement, Personalisation, Recruiting...
- Tipologia di dipendenti: Software Engineers (Backend/Frontend/Fullstack), UX Designers, Data Analysts, personale HR, Program Manager, Project Manager, Managers of managers.
- Contatti con altre sedi: soprattutto Seattle (quartiere generale) e Vancouver, ma anche Dublino, Berlino, Praga, India a seconda del progetto.
- Dove vengono prese le decisioni? Ovunque, ma Seattle ha l'ultima parola. Ogni singolo individuo è un "owner" del progetto.

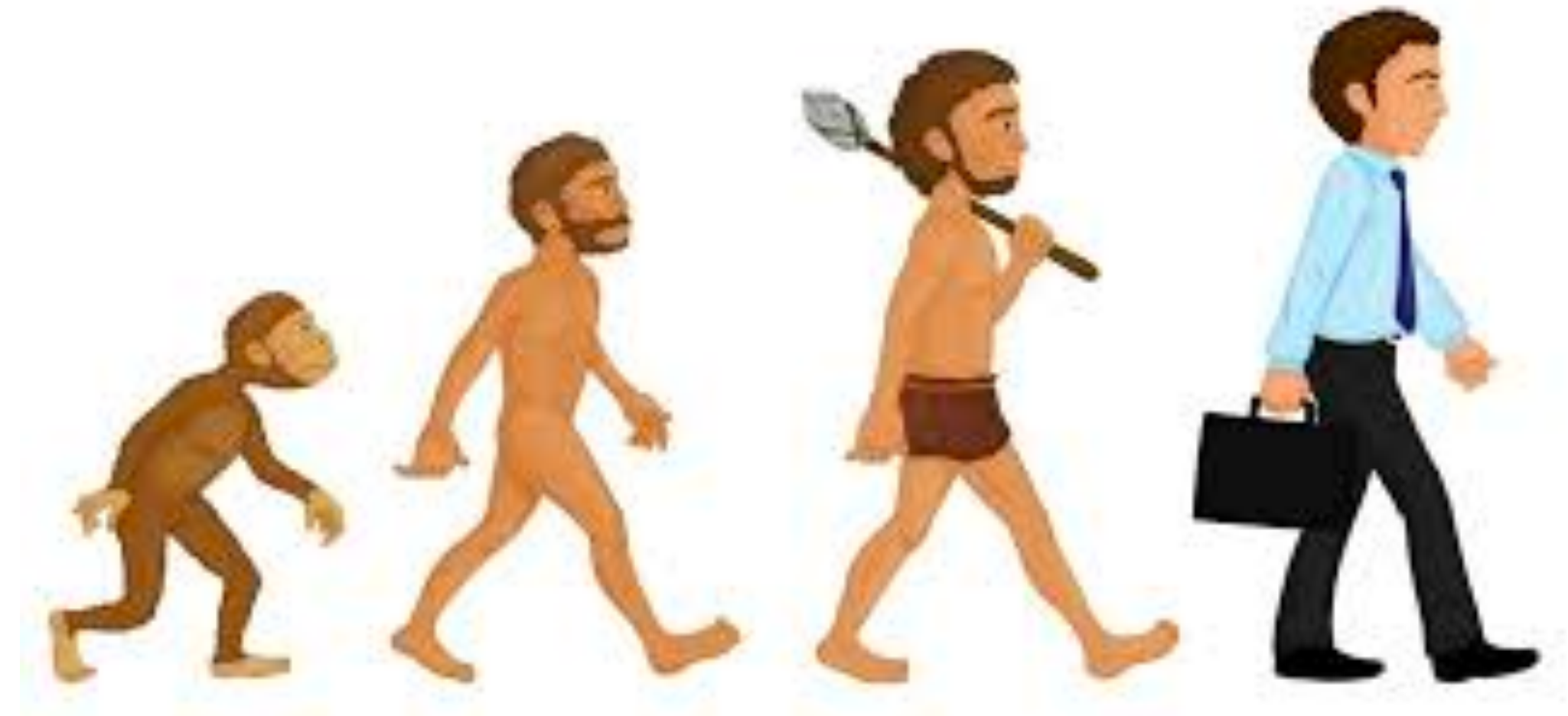


Lavorare in Amazon: Software Engineering

- Onboarding e periodo di prova
- Strumenti e tecnologie: Java, javascript, React, versioning (GIT), ticketing system, code reviews
- Metodologia di lavoro:
 - Self-service, domande domande domande
 - Supporto: code pairing, 1:1, peer feedback
 - Knowledge sharing: Show&Tell, Wiki, Communities
 - Agile: Stand-up, Sprint planning, Retrospective

Lavorare in Amazon: Carriera

- Avanzamento di carriera:
 - Crescere di livello nel proprio ruolo
 - Cambiare ruolo
- Crescita professionale e personale:
 - Innovation Day (tempo a disposizione per progetti a propria scelta)
 - Mentoring
 - Conferenze e workshop
 - Tempo per auto-apprendimento
 - *Rotation*

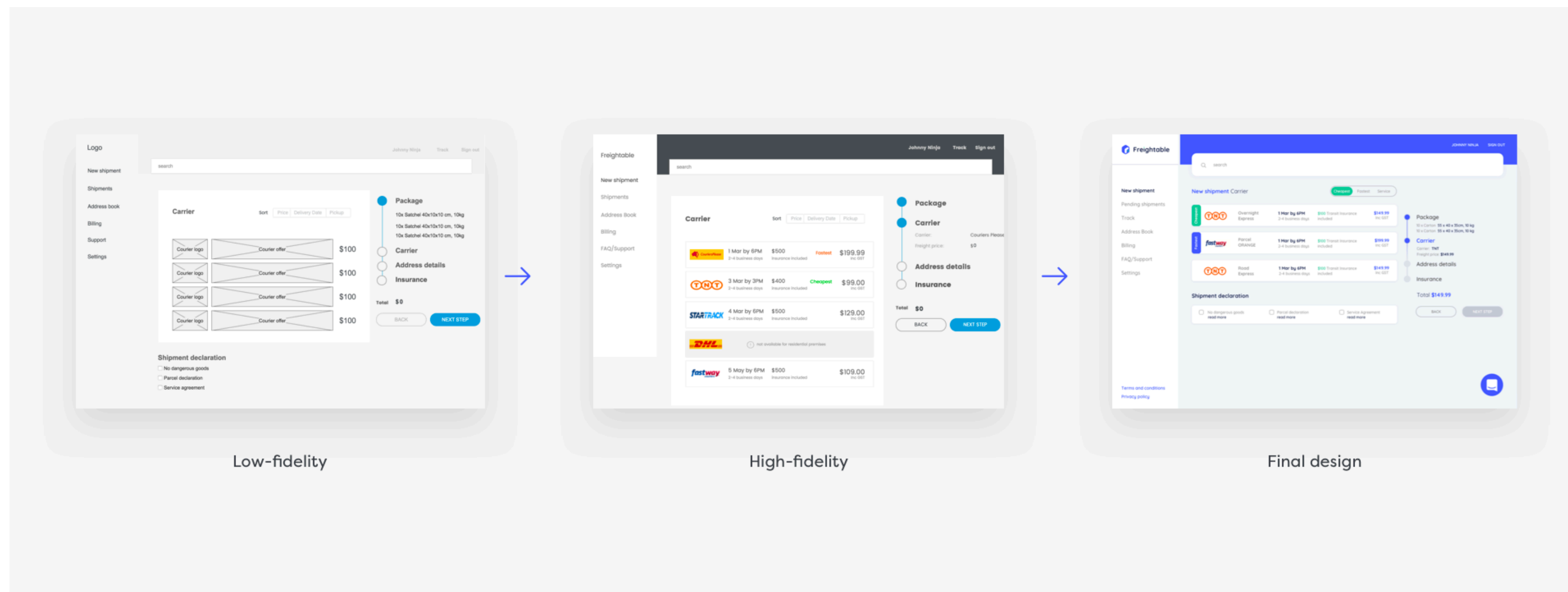


Lavorare in Amazon: UX Design (1/2)

- Migliorare la soddisfazione dell'utente finale e fidelizzazione
- Interazione con il prodotto: utilità, facilità e piacere di utilizzo
- Aspetti funzionali ed emozionali + goal e strategia di business
- Ricerca qualitativa e quantitativa: capire l'utente
- Aspetti sensoriali (vista, udito, tatto, etc.) e cognitivi (organizzazione, flussi, tempo, etc.).
- Trasformare una vision in un prodotto tangibile: sintetizzare ricerca e obiettivi di business in processi e workflow utilizzabili
- Definire lo scheletro di un prodotto e iterare fino all'esperienza finale

Lavorare in Amazon: UX Design (2/2)

- Strumenti e processi:
 - Carta e penna, Lavagne, Wire-framing, Hi-Fi Mockups, Prototipi
 - Stand-up, design reviews, brainstorming, design buddies
 - Interazioni cross-team: Project Managers, Program Managers, Product Managers, Tech Team, Data Team



Lavorare in Amazon: Cultura lavorativa

- Diversity: Women in Tech, Minorities, Disability
- Ambiente internazionale: rispetto delle differenze culturali
- Mission: “to be Earth’s most customer-centric company”
- North star: Amazon Leadership Principles



Amazon Leadership Principles

Customer Obsession

Leaders start with the customer and work backwards. They work vigorously to earn and keep customer trust. Although leaders pay attention to competitors, they obsess over customers.

Ownership

Leaders are owners. They think long term and don't sacrifice long-term value for short-term results. They act on behalf of the entire company, beyond just their own team. They never say "that's not my job."

Invent and Simplify

Leaders expect and require innovation and invention from their teams and always find ways to simplify. They are externally aware, look for new ideas from everywhere, and are not limited by "not invented here." As we do new things, we accept that we may be misunderstood for long periods of time.

Are Right, A Lot

Leaders are right a lot. They have strong judgment and good instincts. They seek diverse perspectives and work to disconfirm their beliefs.

Learn and Be Curious

Leaders are never done learning and always seek to improve themselves. They are curious about new possibilities and act to explore them.

Hire and Develop the Best

Leaders raise the performance bar with every hire and promotion. They recognize exceptional talent, and willingly move them throughout the organization. Leaders develop leaders and take seriously their role in coaching others. We work on behalf of our people to invent mechanisms for development like Career Choice.

Insist on the Highest Standards

Leaders have relentlessly high standards — many people may think these standards are unreasonably high. Leaders are continually raising the bar and drive their teams to deliver high quality products, services, and processes. Leaders ensure that defects do not get sent down the line and that problems are fixed so they stay fixed.

Think Big

Thinking small is a self-fulfilling prophecy. Leaders create and communicate a bold direction that inspires results. They think differently and look around corners for ways to serve customers.

Bias for Action

Speed matters in business. Many decisions and actions are reversible and do not need extensive study. We value calculated risk taking.

Frugality

Accomplish more with less. Constraints breed resourcefulness, self-sufficiency, and invention. There are no extra points for growing headcount, budget size, or fixed expense.

Earn Trust

Leaders listen attentively, speak candidly, and treat others respectfully. They are vocally self-critical, even when doing so is awkward or embarrassing. Leaders do not believe their or their team's body odor smells of perfume. They benchmark themselves and their teams against the best.

Dive Deep

Leaders operate at all levels, stay connected to the details, audit frequently, and are skeptical when metrics and anecdote differ. No task is beneath them.

Have Backbone; Disagree and Commit

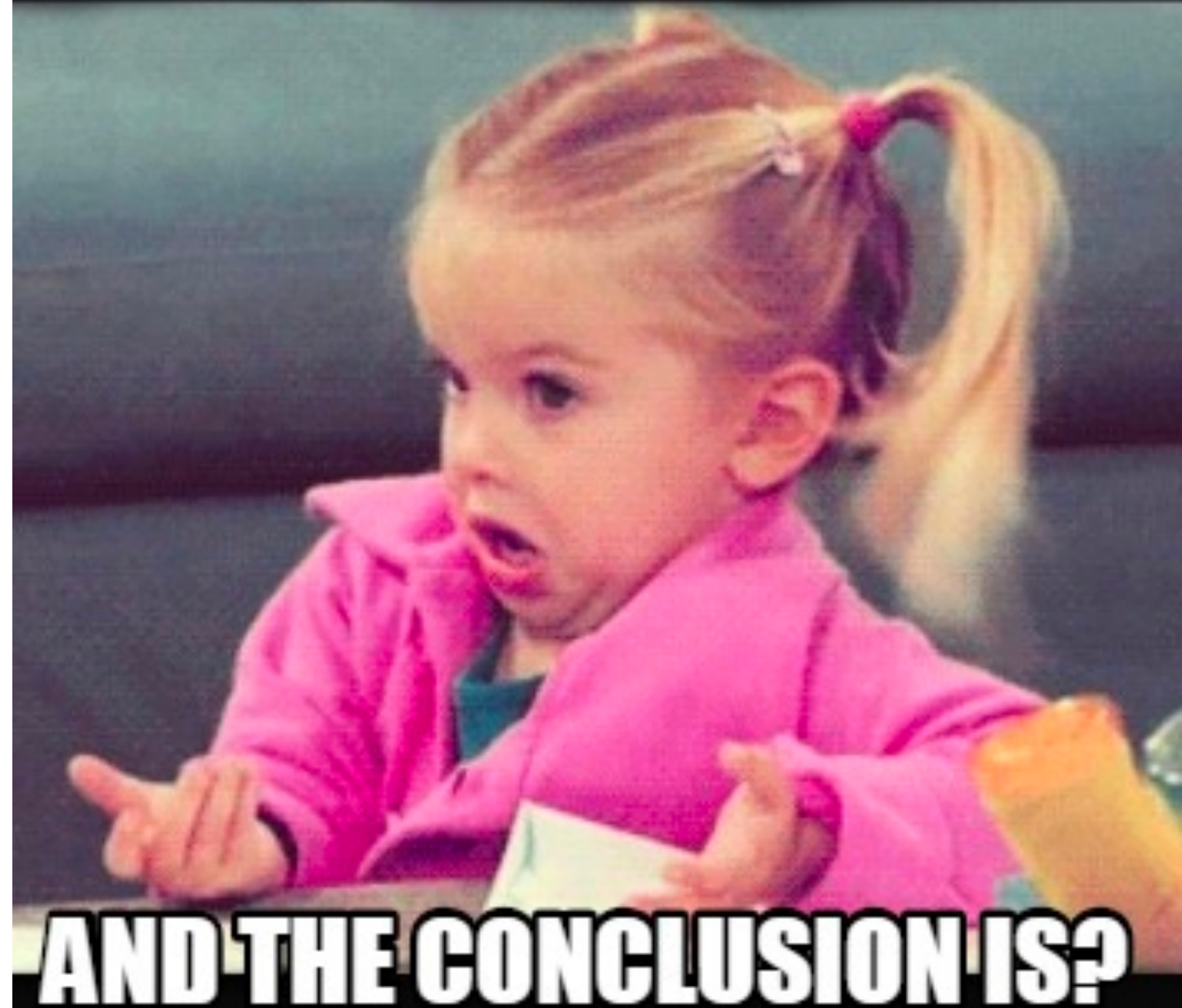
Leaders are obligated to respectfully challenge decisions when they disagree, even when doing so is uncomfortable or exhausting. Leaders have conviction and are tenacious. They do not compromise for the sake of social cohesion. Once a decision is determined, they commit wholly.

Deliver Results

Leaders focus on the key inputs for their business and deliver them with the right quality and in a timely fashion. Despite setbacks, they rise to the occasion and never settle.

Capitolo 6

To be continued...



AND THE CONCLUSION IS?