



Decomposition

Turn a complex problem into one we can easily understand.

- ... probably you already do every day.
- The smaller parts are easier to solve.
- ... we already know/have the solutions.

Examples:

• Brushing our teeth

Which brush? How long? How hard? What toothpaste?

- Solving a crime What crime? When? Where? Evidence? Witnesses? Recent similar crimes?
- . . .



• . . .



Pattern Recognition

We often find patterns among the smaller problems we examine.

• The patterns are similarities or characteristics that some of the problems share.

Example: Cats

- All cats share common characteristics. they all have eyes, tails and fur.
- Once we know how to describe one cat we can describe others, simply by following this pattern.



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akis Principles of Computer Science II: Computational Thinki

Computational Thinking

Abstraction

Hiding irrelevant details to focus on the essential features needed to understand and use a thing

- A compression process multiple different pieces of constituent data to a single piece of abstract data. e.g., "cat"
- Ambiguity multiple different references. e.g., "happiness", "architecture"
- Simplification no loss of generality
 - e.g., "red" many different things can be red

Thought process wherein ideas are distanced from objects



A plan, a set of step-by-step instructions to solve a problem.

• In an algorithm, each instruction is identified and the order in which they should be carried out is planned.



Abstraction Example: Car vs Car Breaks

Course Topics



Computational Thinking



Virtualization

- Do we know how car breaks work?
- Do we know how to use them?

Filter out (ignore) the characteristics that we don't need in order to concentrate on those that we do.











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Introduction

Amazon Web Services

AWS Infrastructure



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AWS Infrastructure



Computational Thinking Introduction

AWS Infrastructure



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Introduction			

AWS Infrastructure



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Amazon Web Services



- Object-based storage.
 - Files = Objects.
 - Not suitable to install an operating system or host a database.
- Files/Objects are organized in Buckets.
- Bucket names must be unique S3 is a universal namespace.
 - http://sapienza2020adm.s3.amazonaws.com/
 - When you create a new S3 bucket, AWS creates a new web address.
- Objects (Files) have the following properties:
 - Key: the name of the object.
 - Value: the actual contents.
 - Version ID: used by the versioning system.
 - Metadata: tags that we can attach to objects.
 - ACL: who can access the object.



- Free Tier new AWS accounts
 - 5GB of S3 storage.
 - 20,000 GET 2,000 PUT/COPY/POST/LIST
 - 15GB of Data Transfer Out each month for one year
- S3 Standard
 - \$0.0245 per GB
 - \$0.0054 per 1000 PUT/COPY/POST/LIST
 - \$0.00043 per 1000 GET/SELECT/all other requests.
- S3-IA Infrequent Access
 - \$0.0135 per GB a minimum storage duration of 30 days.
 - \$0.01 per 1000 PUT/COPY/POST/LIST
 - \$0.001 per 1000 GET/SELECT/all other requests.
- S3 Glacier
 - \$0.0045 per GB a minimum storage duration of 90 days.
 - \$0.06 per 1000 PUT/COPY/POST/LIST
 - \$0.00043 per 1000 GET/SELECT/all other requests.

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