



CS 30700  
PROJECT DESIGN DOCUMENT

## Admiral Radar

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## 1 Introduction

This is an example tex file to show you how to load text, images, and tables. It should demonstrate how simple it is to use the LaTeX framework I've written. To start, type any text you'd like in plaintext, just like this paragraph is. The source code for this paragraph, which is the example, is Sample.tex in the "sources" folder. As you can see by examining it, all of this paragraph has just been written in simple plain text. The next fancy thing we'd like to do is add a picture. The first step here is to save the picture you'd like to use, preferably as a PNG file, in the "images" directory. I have saved an example image called "gustavo.png" in this folder for this example. In order to show the image in your document, all I need to do is end the paragraph and include the line below. In this example, the caption for the image is "Gustavo, Our King."

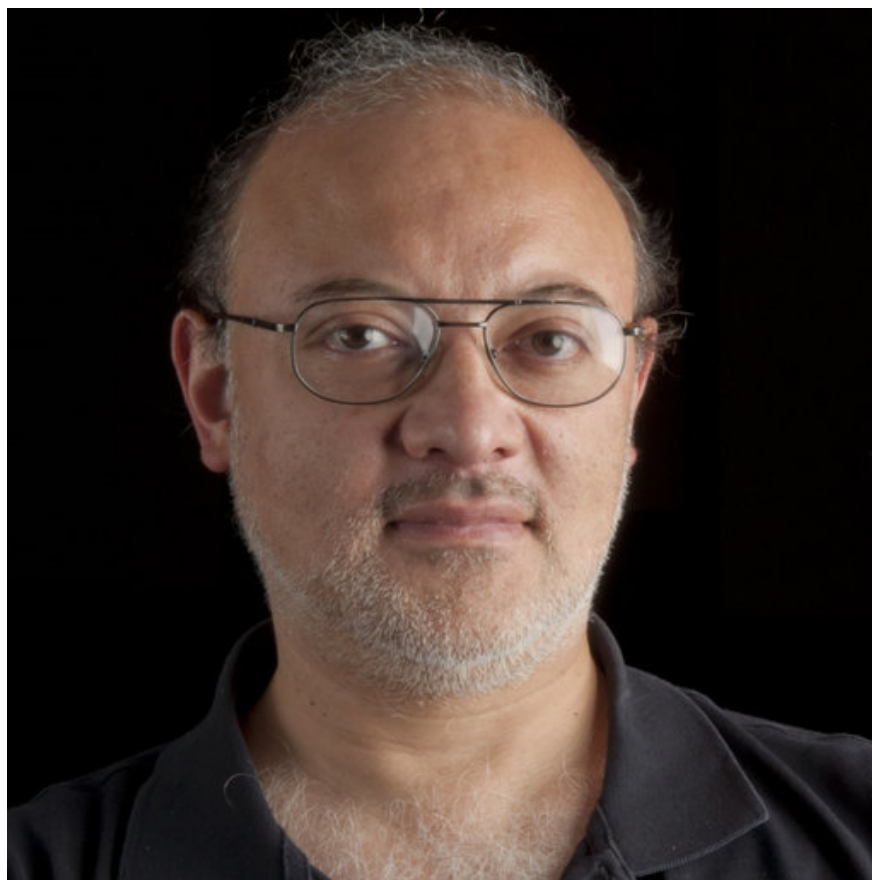


Figure 1: Gustavo, Our King

Note that the name inside the brackets is the name of the image file without the extension. Once this is done, the typesetting compiler will load the image and place it in the appropriate location. The other important feature we should discuss is tables. We're going to make this super simple as well: the primary thing you need to do is save your table in CSV format in the directory "tables." I've saved "enterprise.csv" in this directory as an example. Like the image example above, all you have to do is end your paragraph and type the following line into the .tex file, using the proper name of your CSV file and the desired caption.

First Name	Last Name	Rank	Pips	Title
Jean Luc	Picard	Captain	4	Commanding Officer
William	Riker	Commander	3	Executive Officer
Data	Soong	Lieutenant Commander	2.5	Operations Officer
Worf	Son of Mogh	Lieutenant	2	Tactical Officer
Geordi	LaForge	Lieutenant	2	Chief Engineer
Beverly	Crusher	Commander	3	Chief Medical Officer

Table 1: Enterprise Crew

As you can see, the CSV file is loaded into the document as a table. The top line will be the header, and data will be loaded in like you'd expect. In BOTH the image and the

table, you MUST include a caption, or else the document will include "All Hail The Mighty Image/Table" as captions.

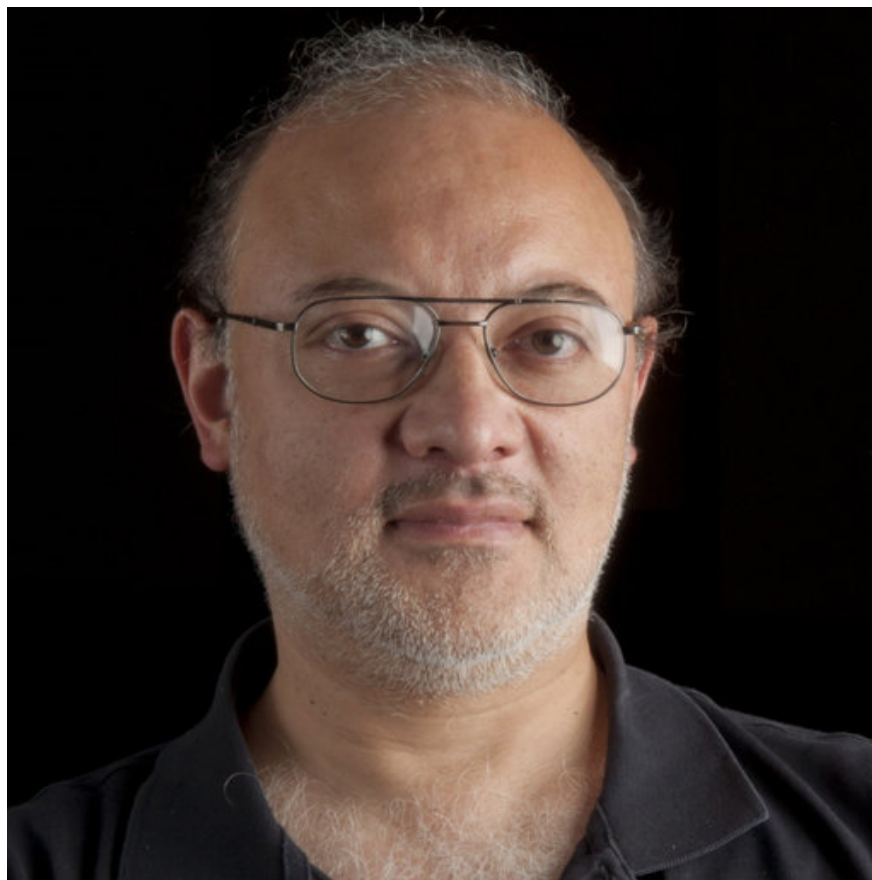


Figure 2: All Hail The Mighty Image!

If you have special requirements for your table, talk to me (Sam), but try to give me your data as a CSV and I'll try to make it work. This concludes the sample file. It should be all we need to complete the document.

## 1.1 Mission Statement

Board games are a lost art, and part of a treasured history. By adapting the popular board game Captain Sonar, we attempt to digitize the game and open it to a wider audience through online play, more intuitive gameplay, and additional functionalities not possible on a physical board. Admiral Radar: Space Expedition allows players to enjoy the gameplay mechanics originally found in Captain Sonar but without the need for players to be in the same geographic location. Some game features are simply not even possible in physical board games such as team-only communication, persistent player statistics, or single player gameplay, demonstrating the need for board games such as Captain Sonar to be brought into the digital space.

## 1.2 Game Rules

The game of *Admiral Radar* is based on the rules of the board game *Captain Sonar*, which are described here. The game is nominally played by two teams of four people, each of which represent the crew on a submarine during wartime. The overall objective of the game is to sink the opposing submarine by removing all four of its health points. Each member of the crew of one of the submarine has a unique role: Captain, First Officer, Radio Officer, and Engineer. Each of these roles performs different functions on the submarine which are all necessary in order for the submarine to successfully navigate, find, and damage the opposing team's submarine. In the physical game, each role has a different design of board in order to accomplish these tasks. Both teams are separated by a large physical barrier to prevent one team from seeing the other team's boards.

The game is played in turns, with each turn consisting of a series of moves by the Captain, First Officer, and Engineer. Most significantly, the turns of the two submarines are not necessarily coordinated. If the game is played in "turn-based" mode, one submarine completes its turn and then the other submarine does the same, trading back and forth until the end of the game. If the game is played in "real time" mode, however, one submarine may begin their next turn as soon as it completes the previous one: the turns of the teams are not synchronized. In both cases, the actions of the Radio Operator are linked to the actions performed by both submarines, although their play will inform the choices made by their team's captain during their turn.

The Captain's game board has a diagram of the game map: a grid of a certain size. This grid has certain points blocked off, representing islands. At the beginning of the game, they will select a starting point for their submarine and, using an erasable marker, note it on their board. Every turn is begun by the captain commanding a direction: North, South, East, or West, for the submarine to travel. They must vocally announce it, loudly, to all players. After the First and Engineering Officers have completed their tasks, the captain will mark the direction taken on their board by drawing a line to the dot in the direction on the map which they selected, indicating that the submarine has moved to this new position on the map. They may not direct the submarine in any direction that would contact an island or the boundaries of the map. Additionally, they may not move the submarine in such a way that it would cross its previous path.



Figure 3: Game Map

After the Captain has ordered a direction, the First and Engineering Officers complete their responsibilities. The board of the first officer has a series of six guages representing the ship's six special systems: Torpedos, Mines, Drones, Sonar, Silence, and Scenario. Every turn, they distribute one unit of power to a system of their choice, and, once complete, announce "done" to the Captain. If they have completely filled a guage, they must also vocally announce that the system corresponding to that guage is ready.





Figure 4: First Officer's Game Board

At the same time, the Engineering Officer is performing his or her own task. With every move, they must select a certain ship system to disable for maintenance: different options for systems to disable are available depending on the direction in which the Submarine travels. Depending on the Engineer's choice, a component of the sensory, tactical, propulsion, or auxillary systems will be disabled, making those systems unavailable for the Captain's use. If, however, the Engineer takes all members of one of three specific sets (called circuits) of components offline, those components will be repaired, and the systems they belong to will again be available for the Captain's use. Some components cannot be repaired, as they are not part of one of the circuits on the Engineer's board. Of special significance are the reactor components. While the engineer choosing to take them offline does not disable a submarine system, if all reactor components are disabled, the submarine loses one point of health and the engineer re-enables all systems. Because the reactor components are not part of any circuit, they cannot be repaired except by the surfacing mechanic (discussed later). After marking a component as disabled, or, if a circuit is completed, marking the component enabled again, the Engineer, like the First Officer, announces "done." Once both the Engineer and First Officer have announced that they are done, the turn is complete.

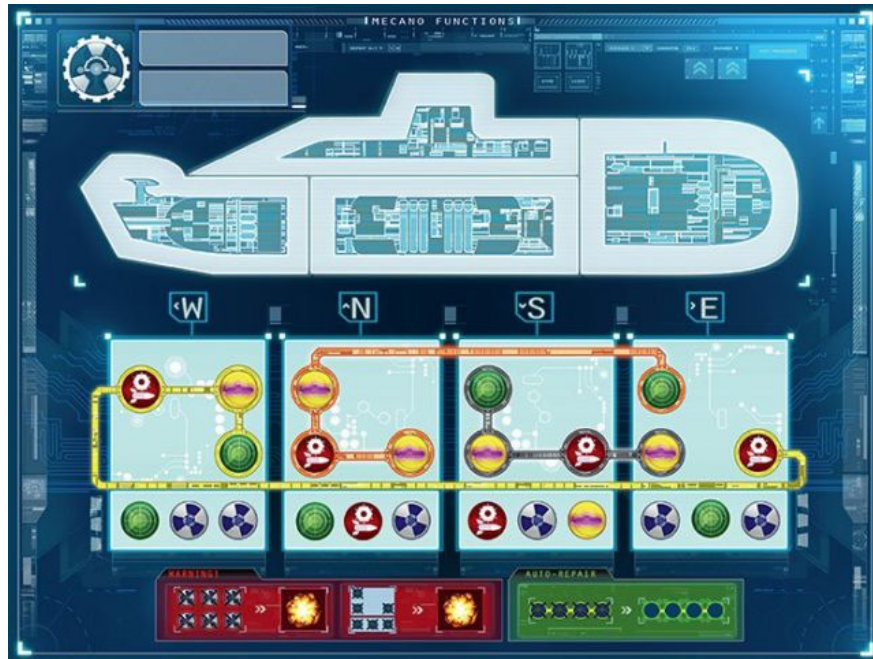


Figure 5: Engineering Officer's Game Board

The final role on the submarine is that of the Radio Officer, who's job is to determine the location of the enemy submarine. Like the Captain, their board has a map of the board, however their job is to draw the path of the opposing submarine, which they learn by listening to the opposing Captain's directional commands. While this means that they know the path of the enemy submarine, they do not know the starting location, which they must determine from available clues. As the game goes on and the submarine's path gets

longer, fewer and fewer coordinates become viable guesses for the actual starting location of the enemy submarine. The Radio Officer draws the path of their opponent's vessel on a transparent plastic sheet, which they may move overtop the map to determine its present location. When the Radio Officer has a good guess of where the enemy is, they notify their Captain, who can use that information to attack their opponent.

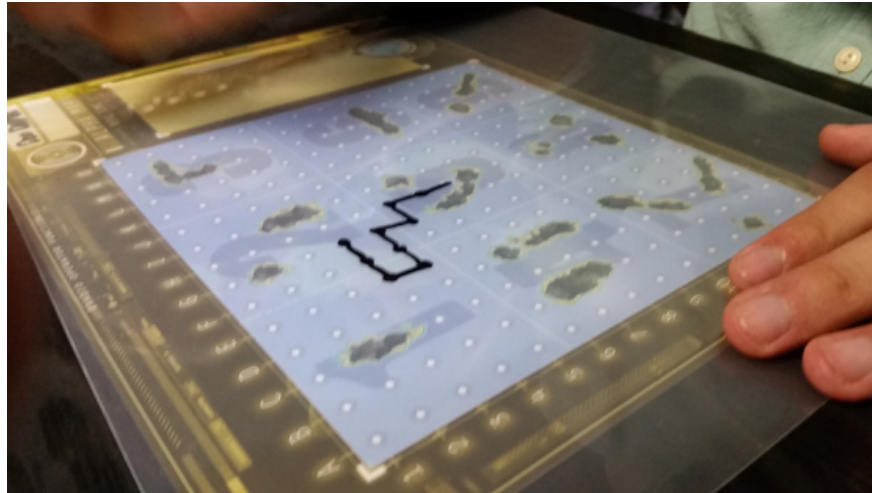


Figure 6: Radio Officer's Station

In addition to movement, the Captain has, at their disposal, seven special actions which they may order the submarine to perform. The first six actions must be charged by the First Officer before being available for the Captain's use, while the seventh, "surfacing," may be ordered at any time. Firing a torpedo is one of the two tactical actions of the game. When the Captain fires a torpedo, they select a grid location four cardinal steps or less away from the location of their submarine and report it to the opposing Captain. The opposing Captain compares the announced location to the location of their submarine: if the announced coordinate is the same one as that which the submarine currently inhabits, the submarine loses two health points. If the selected coordinate is adjacent to the submarine in any direction, it loses one health point. Otherwise, the enemy submarine loses no health. The opposing Captain will announce how much health their submarine has lost from the torpedo. The other tactical system, mines, work slightly differently. At any point, the Captain announces that they are laying a mine, and indicates to a Radio Officer a coordinate one unit away from the current location of their submarine in any direction, which the Radio Officer records on their map (not their overlay). At any point after, the Captain may then remotely detonate that mine, which will cause damage in the same pattern as a torpedo which had been targeted at the coordinate at which the mine was located.

The next two systems are the sensory systems: Drones and Sonar. Both of these provide information about the location of the enemy ship to the Radio Officer. When the drone is used, the Captain selects one of the major grid squares (called sectors) on the map to test for the presence of the enemy submarine, announcing the number of that sector to the opposing Captain. The opposing Captain then answers, truthfully, if their submarine is located in that sector or not. The Radio Officer then records this information on their map, as this



information allows them to eliminate a number of potential locations at which the enemy submarine could possibly be located. The Sonar action provides a similar general function, although the exact information which the enemy must provide is different. If a ship uses its sonar, its opponent must announce two pieces of information about their location from three possible choices: the row in which they are located in, the column they occupy, or the number of their current sector. Although two pieces of information are provided, only one of these is truthful: the other is deliberately false. Like when executing the drone action, the radio officer will mark down the information they have gained about the enemy's current position on their board.

The fifth action which the submarine may perform is to Silence itself. If Silence is ordered, the submarine instantly jumps up to four coordinates away, in a straight line, without announcing to the enemy submarine anything about their movement except for the fact that they have performed the Silence action. Like a standard movement, a Silenced movement may still not intersect with an island, map edge, or the submarine's previous path. Unlike the other four discussed actions, performing a Silence does not pause the game (which is done when a Torpedo, Mine, Drone, or Sonar action is used) until it has been completed: both submarines continue taking their turns. The Scenario action, the final one available to the submarine, does nothing in the basic version of the game: it can perform special actions depending on specialized rules for alternate game variants, which are beyond the scope of this description.

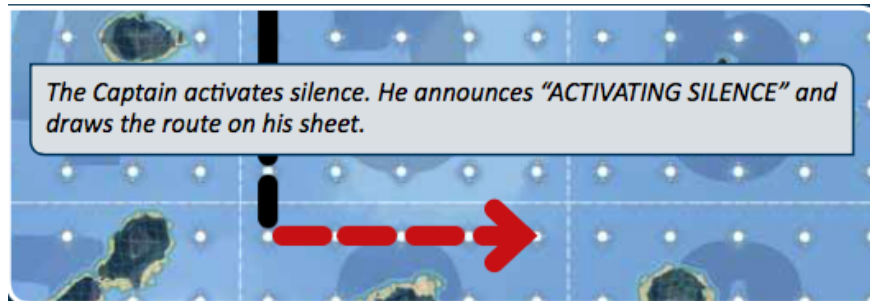


Figure 7: Silenced Movement

Finally, at any time the Captain may order the submarine to Surface. He must also inform the enemy team which sector his submarine occupies. Once a surface is performed, the Engineer re-enables all submarine systems which have been disabled, and the captain may clear his previous route from his board, allowing his submarine more room to maneuver (as he does not have to worry about avoiding the path his vessel followed prior to surfacing). If the game is being played in turn-based mode, the enemy submarine gets three turns. If the game is being played in real-time mode, the enemy continues to perform actions while the surfaced submarine performs a task designed to waste time (tracing the outline of certain shapes on the engineer's player board). During the time the submarine is surfaced, the Radio Operator of the surfaced submarine may not record the enemy submarine's movements: he or she must remember them and record them once the submarine has submerged again, at which time play resumes as normal.

As soon as one ship has lost four units of health, either from reactor damage or enemy

weapons, the submarine is sunk and loses the game. The surviving submarine crew is declared the winning team.

### 1.3 Project Description

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### 1.4 Deliverables

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## 2 Design Outline

### 2.1 Design Pattern

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## 2.2 Component Interactions

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## 2.3 Structural Model

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## 3 Design Issues

### 3.1 Functional Issues

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### 3.2 Non-FunctionalIssues

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## 4 Design Details

### 4.1 Class Descriptions

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## 4.3 Activity Sequences

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## 4.5 Database Design

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## 4.6 Interface Design

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## 5 Project Logistics

### 5.1 Personell

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### 5.2 User Stories and Tasks

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

## 5.3 Calendar

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## 5.4 Contingencies

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like “Huardest gefburn”? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.