

# Design Document

## Nao States

Project Name	Nao Soccer
Project Leader	Viktoria Streibl, Melanie Mühleder, Sabina Brantner
Document state	In progress
Version	V. 1.0

## Revisions

Date	Author	Change
August 17, 2016	V. Streibl, M. Mühleder, S. Brantner	First version

# Contents

1	Introduction	3
2	Show Robot Status	3

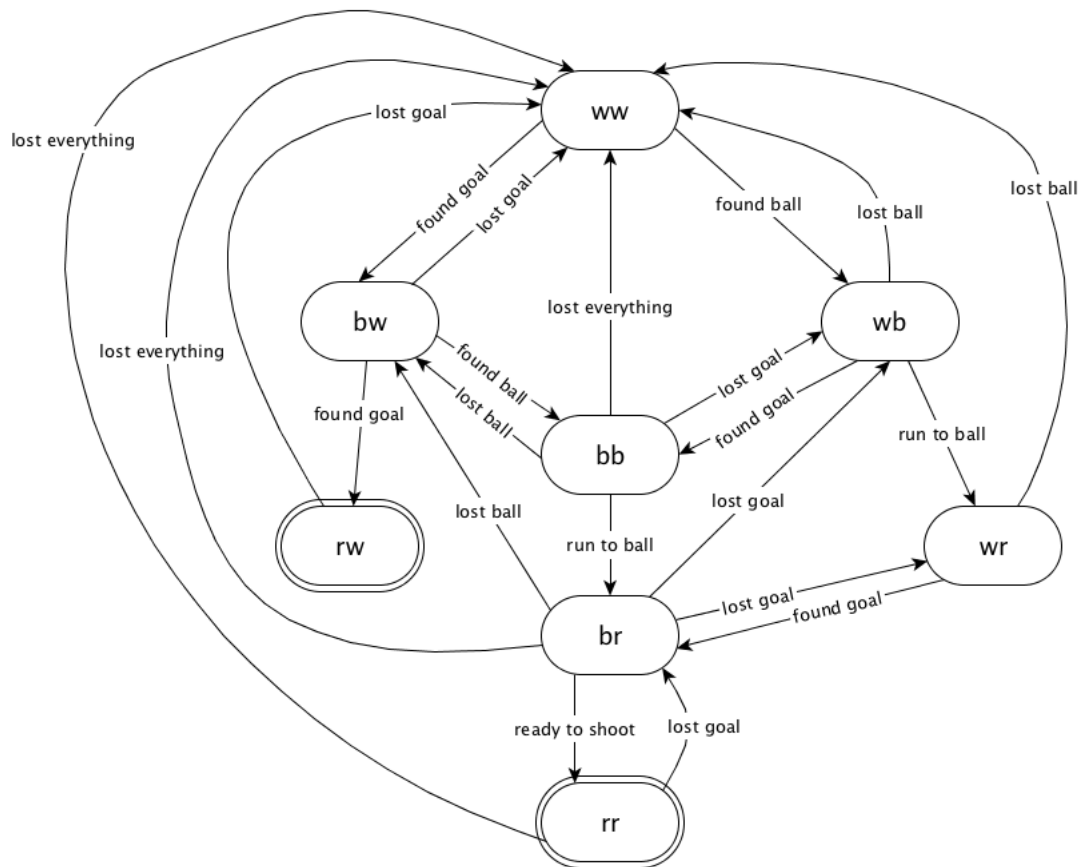
# 1 Introduction

## 2 Show Robot Status

To quickly monitor the status of the Nao, we plan to implement some status indicators via coloring its eyes. The following table represents some first ideas which status could be interesting to facilitate our development and how we want to indicate with two eyes colors.

**Remark:** In the next table: What is if the Nao sees the goal?  
What means the red/red status? What do you mean by “the x/y state is necessary?”

**Remark:** Please check if the state diagram is okay, and the table beneath



Shortcut	Meaning	Status
ww	Left and right eye are white	The Nao can't see the ball or the goal
bw	Left eye blue, right eye white	The Nao has found the goal but no ball
bb	Left and right eye are blue	Has found goal and ball, but too far away for kick
wb	Left eye white, right eye blue	The Nao has found the ball but not the goal
rw	Left eye red, right eye white	Nao tells other teammates where the goal is
br	Left eye blue, right eye red	The Nao has the ball and found the goal and it is on the way to the ball
wr	Left eye white, right eye red	The Nao plans to access the ball, this is only possible if the left eye was blue before
rr	Left and right eye are red	The Nao kick the ball to the goal, only after the blue-red status