

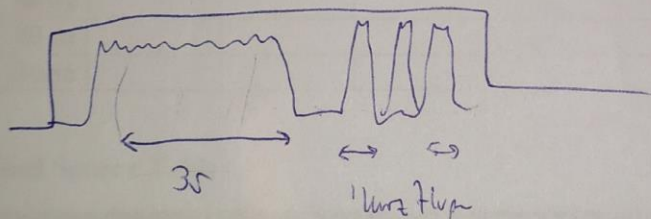
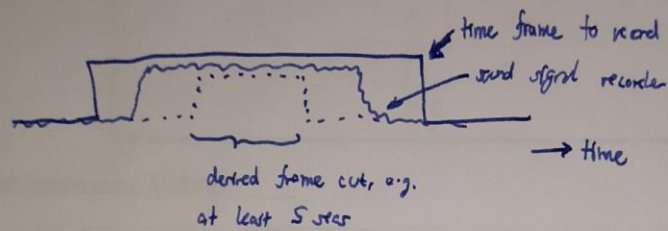
How we perform measurements

We will perform the measurements for each of the four layouts (see above), for each sound source (we use car horn and one sirena sound), for each distance (0m, 20m, 40m, 60m, 80m), for each angle (0° , 10° , 20°), so in total we perform 120 measurements.

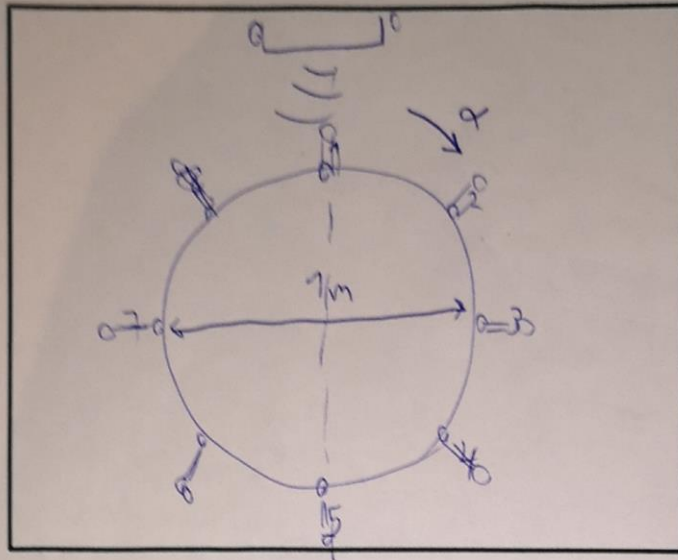
In order to do it efficiently our process is:

- 1) We use laser scanner and white chalk spray to mark positions on the ground
- 2) Set up each array layout
 - a) Set up each angle
 - i) Set up each distance
 - (1) Measure for 10 seconds

↳ each sound source



Realise	Channel	
1	1	} horn source
2	2	
3	3	
4	4	
5	5	
6	6	
7	7	
8	8	

Sketch of the array layout **A 1**

Measurement Table ____

	Kevin's Car Horn			Yuri's Sirena X 1		
Angle	0°	10°	25° 20°	0°	10°	20° 25
70 m	X	X	X	X	X	X
20 m	X	X	X	X	X	X
40 m	X	X	X	X	X	X
60 m	X	X	X	X	X	X
80 m	X	X	X	X	X	X
100 Done	X			X		

Sound Source Table

Sound Source	Abbreviation
Kevin's Car Horn	CH
Yuri's Sirena X	SX S1

Naming Convention

Each Audacity Project is called like that:

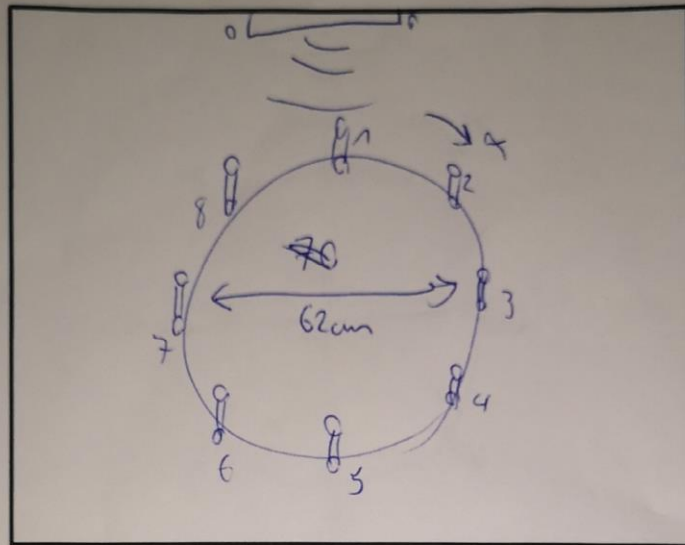
ARRAY_SOUNDSOURCE_ANGLE_DISTANCE

Array = the four designs we have so far, needs to be clarified by numbers in a table, 2 digit

Soundsource = the type of soundsource, needs to be clarified by numbers in a table, 2 digit

Angle = Angle in degree °, two digits

DISTANCE = Distance in meter, two digits

Sketch of the array layout A2

Measurement Table — —

	Kevin's Car Horn			Yuri's Sirena X		
Angle	0°	10°	20° 25	0°	10°	20° 25
0 m	X	X	X	X	X	X
20 m	X	X	X	X	X	X
40 m	X	X	X	X	X	X
60 m	X	X	X	X	X	X
80 m						
Done						

Sound Source Table

Sound Source	Abbreviation
Kevin's Car Horn	CH
Yuri's Sirena X	SX

Naming Convention

Each Audacity Project is called like that:

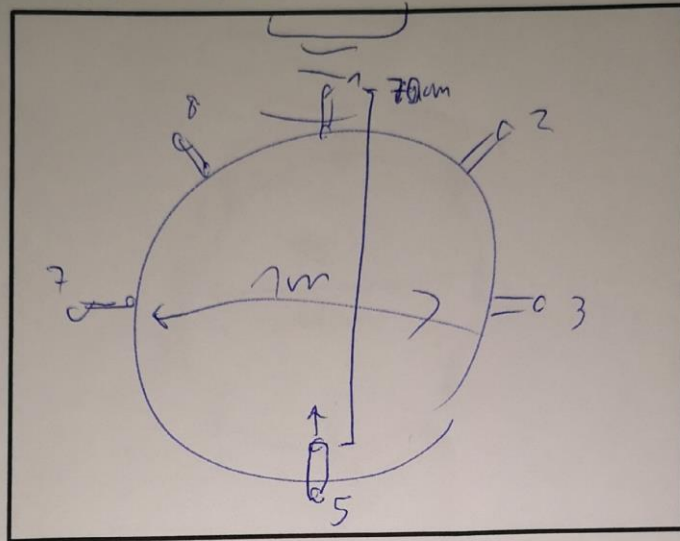
ARRAY_SOUNDSOURCE_ANGLE_DISTANCE

Array = the four designs we have so far, needs to be clarified by numbers in a table, 2 digit

Soundsource = the type of soundsource, needs to be clarified by numbers in a table, 2 digit

Angle = Angle in degree °, two digits

DISTANCE = Distance in meter, two digits

Sketch of the array layout A 3

Measurement Table ____

Angle	Kevin's Car Horn			Yuri's Sirena X		
	0°	25 10° 25	45 20° 25	0°	25 10° 25	20° 28° 45
0 m	X			X		
20 m	X			X		
40 m	X			X		
60 m	X			X		
80 m	X			X		
Done						

Sound Source Table

Sound Source	Abbreviation
Kevin's Car Horn	CH
Yuri's Sirena X	SX

Naming Convention

Each Audacity Project is called like that:

ARRAY_SOUNDSOURCE_ANGLE_DISTANCE

Array = the four designs we have so far, needs to be clarified by numbers in a table, 2 digit

Soundsource = the type of soundsource, needs to be clarified by numbers in a table, 2 digit

Angle = Angle in degree °, two digits

DISTANCE = Distance in meter, two digits