

# Generating Natural Language Data Describing Real-World Events through Crowdsourcing

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## Aims

- Develop a mechanism for generating an organically diverse set of natural language descriptions of images, events, or geographic locations via crowdsourcing.
- Using this mechanism to build a corpus of natural language to be used to train software agents on processing information-rich streams of social media data during disaster response.

## Trial Run

- Users were given a map with 10 marked locations and asked how they would describe them in a tweet (Figure 1).
- Users also given a set of 11 photos related to a radiation leakage disaster and asked to describe them as though they were seeing them in the real world. (Figure 2).

## Locations Used



Figure 1: Users were asked to describe the locations numbered on the map.

## Images Used



Figure 2: Some of the images used in the test.

## Results



Men in yellow suits clearing out some barrels

Just saw workers in radiation suits are moving radioactive waste... i knew I shouldn't have come to Nottingham.

There are some guys in radiation suits handling strange barrels of something. What's going on?

there are two people in suits pushing this radioactive barrel

People in protective suits manipulating a dirty container - looks like I should not be around here!!

i hope those guys with the toxic waste know what they're doing...

two guys in yellow gimp suits are dropping barrells off

Hope I'm wearing a radiation suit

Holy s\*\*t- radioactive guys carrying a barre!!

just seem some biohazard dudes - if they're not careful someone will be getting superpowers...

people in gas masks and big yellow overalls??? what's going on here?



### Location 4

100 m north of lake

about 150m up the path running north-west from northern tip of lake

At the right angle of the triangular field near the city council

straight down from the hall, not the main path

South west from the base about 70m

In a triangular slice of field across from Wollaton Hall west face

by the gully running north of the lake

Far-end of field to west of Wollaton Hall outbuildings

center of the park

by the bit of wood which leads to the lake

When you go from lake to Hall, on the left behind trees