



# Small-world networks

## QUESTION

What is the meaning of *six degrees of separation*?

## QUESTION

Why do we say that some networks are a *small-world*?

## GAME

Let's check if we are living in a small-world. Using the Oracle of Kevin Bacon<sup>1</sup> get the distance (measured in number of movies) that separate the following locations

- What is the distance between the UK and Los Angeles?
- What is the distance between the UK and *Hogwarts*?
- What is the distance between the UK and *Mordor*?

## TIPS



<b>Name</b>	Rowan Atkinson	Kristen Stewart	Rupert Grint	Elijah Wood
<b>Born</b>	Consett (UK)	Los Angeles (CA, USA)	Stevenage (UK)	Cedar Rapids (IA, USA)
<b>Work</b>	Mr Bean	Twilight	Harry Potter	The Lord of the Rings

## QUESTION

What are the usual characteristics of small-world networks? To understand the structural characteristics of small-world networks you can try to draw the network of your own friends, the friends of your friends and so on.

<sup>1</sup> <http://www.oracleofbacon.org>