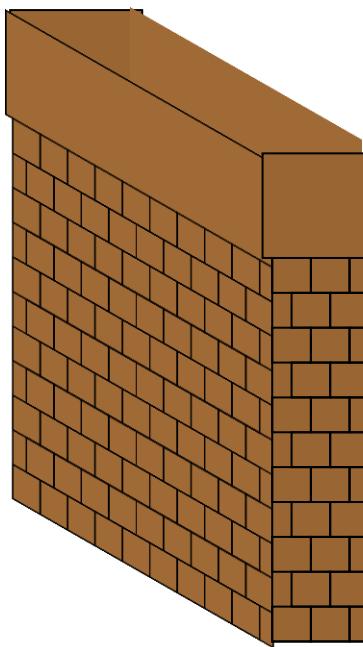


The Hat Trick

Albert



Cuthbert



Egbert



Hubert



Four Father Christmas impersonators have been kidnapped by an evil genius who has

pogonophobia

pogonophobia



fear of beards

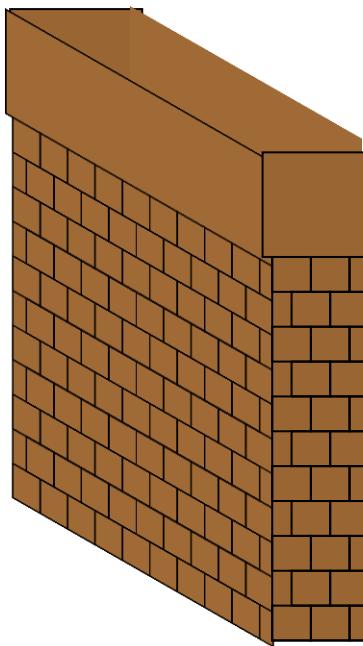
He wants revenge on the plump, whiskery men who have terrified him since childhood.

So he has buried them up to their necks in snow. Soon they'll be frozen as solid as Lidl turkeys.

**But because it's his birthday,
he's going to give them one
chance to escape...**

“I have buried you in the snow, one on one side of the wall, three on the other side.

Albert



Cuthbert



Egbert



Hubert

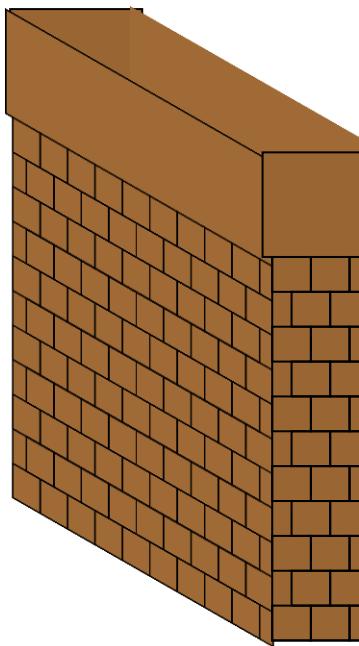


You cannot see over the wall.

You cannot see round the wall.

You cannot see through the wall.

Albert



Cuthbert



Egbert

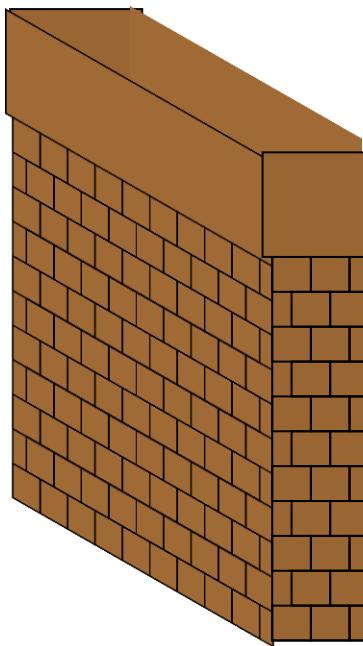


Hubert



Now I will remove your red hats, and replace them with two blue hats, and two yellow hats.

Albert



Cuthbert



Egbert



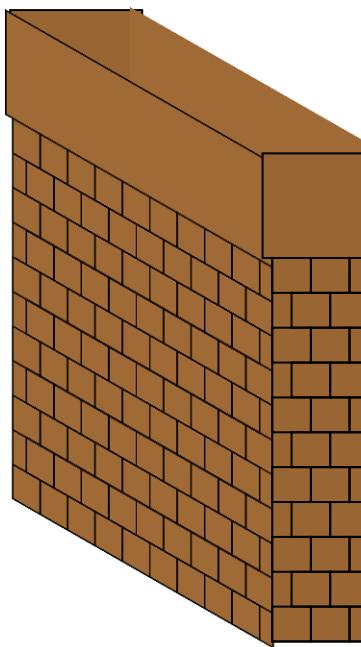
Hubert



To live, one of you must tell me what colour hat you yourself are wearing.

You cannot see your own hat, only the wall and any hat or hats in front of you.

Albert



Cuthbert



Egbert



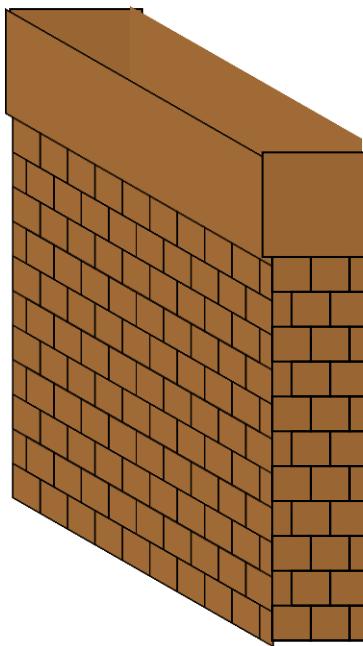
Hubert



If you get it wrong, I leave you all to freeze.

If you speak or signal to each other, I leave
you all to freeze.

Albert



Cuthbert



Egbert



Hubert

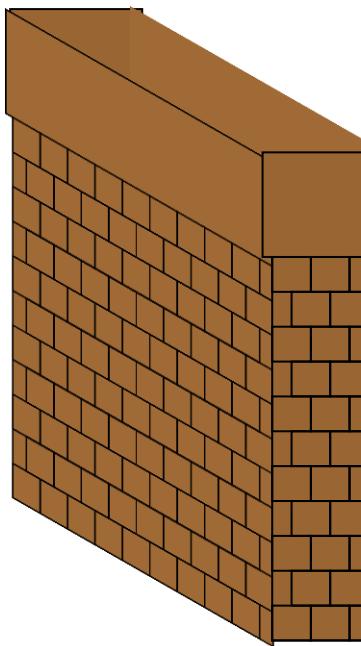


You cannot turn round.

You can only see what is in front of you.

You know you have two blue hats and two yellow hats between you.

Albert



Cuthbert



Egbert



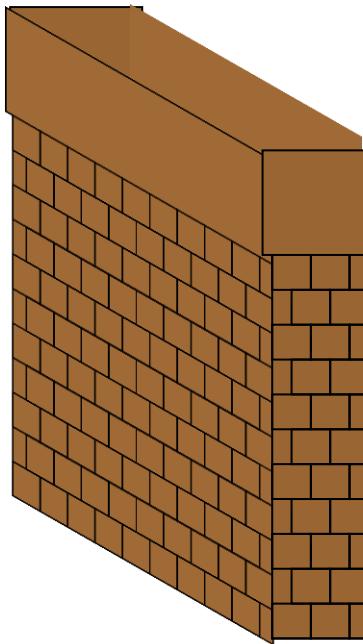
Hubert



You have two minutes for someone to call out the colour of his own hat.

Get it wrong, or if no one calls out: you freeze.
Get it right: you all live.”

Albert



Cuthbert



Egbert



Hubert



**That's Albert, Cuthbert, Egbert
and Hubert's challenge.**

**Your challenge is slightly
different...**

For a minute, nobody says anything.

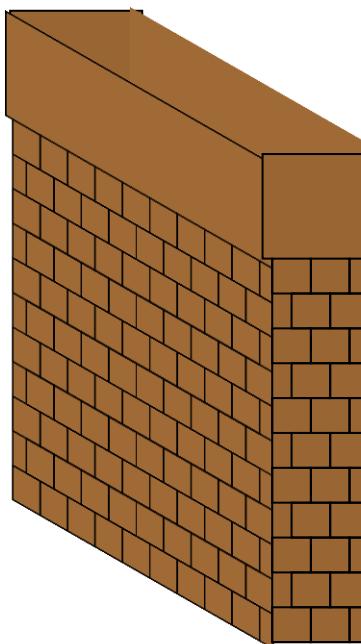
After one minute, someone calls out his colour.

He gets it right, and he isn't guessing.

He **KNOWS** the colour of his hat.

Who calls out, and how does he know?

Albert



Cuthbert



Egbert



Hubert



**If you've worked it out, go
forward three slides.**

**If you haven't worked it out yet,
go back a slide.**

**If you're thinking of giving up,
go forward one slide.**

Clue number one.

What does the silence tell you?

Clue number two.

**The santa who knows his colour
only knows it once he knows
nobody else can know theirs.**

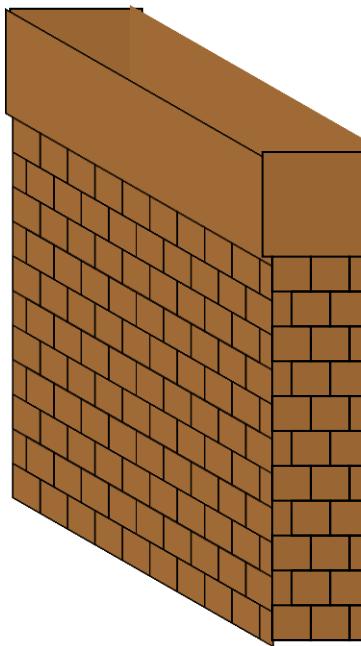
**Who's the last person he knows
can't know, and what does knowing
that they can't know tell him that he
didn't know before he knew nobody
else could know.**

The answer is on the next slide.

Everyone knows there are two blue hats and two yellow hats.

Albert and Cuthbert know nothing else. All they can see is the wall.

Albert



Cuthbert



Egbert



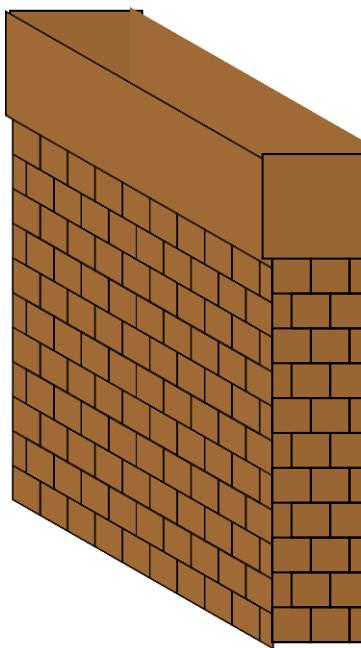
Hubert



It looks as if Hubert is best placed to know.

But it's Egbert who calls out. Egbert's thinking goes like this.

Albert



Cuthbert



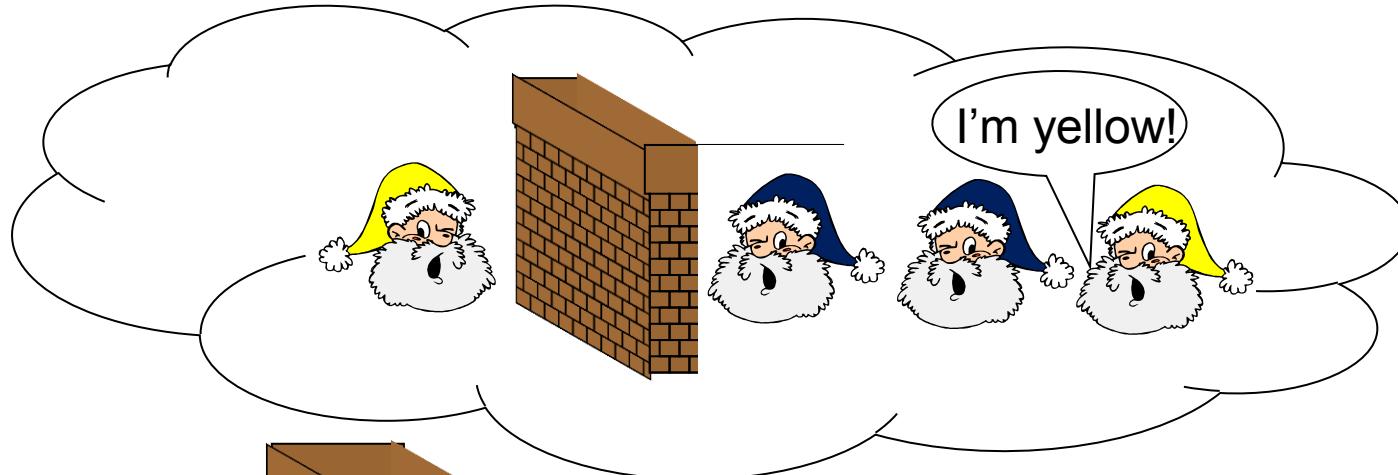
Egbert



Hubert



"If Hubert could see two blue hats, he'd know his must be yellow, so he'd have called out.



Albert



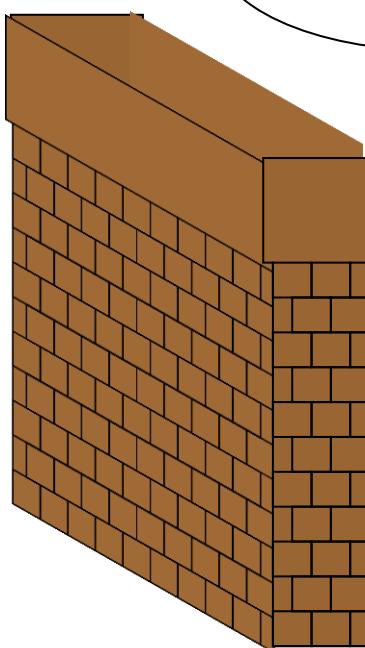
Cuthbert



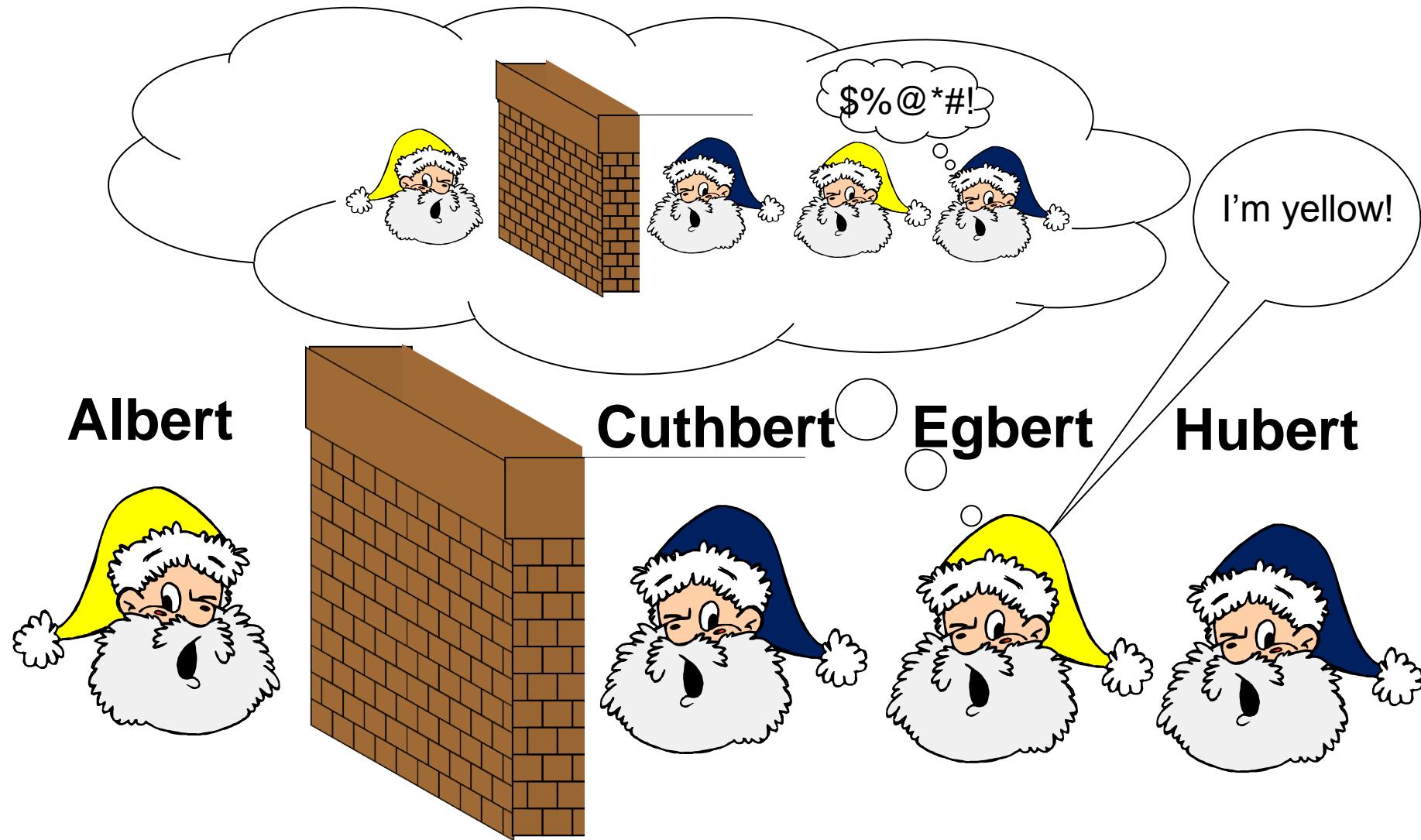
Egbert



Hubert



But he hasn't called out, so he must be able to see one yellow and one blue hat. So I'm yellow.





Like many problems in the real world, both their puzzle and yours took two things working together.





reason

the ability to think carefully from
one idea to another





empathy

the ability to see the world through
someone else's eyes





or to put them together, being
thoughtful



**Another question for you to
chew over...**

**How is knowing different from
guessing?**

Teachers - for other thoughtful things to use in the classroom, including philosophical thinking games and stories for nursery to KS5 to staff INSET, visit

www.outspark.org.uk

and click on “free stuff”.