cutting the lifi project

prof. dr. nicolas meseth

1 the elephant
2 cutting along the way

this is your
elephant.



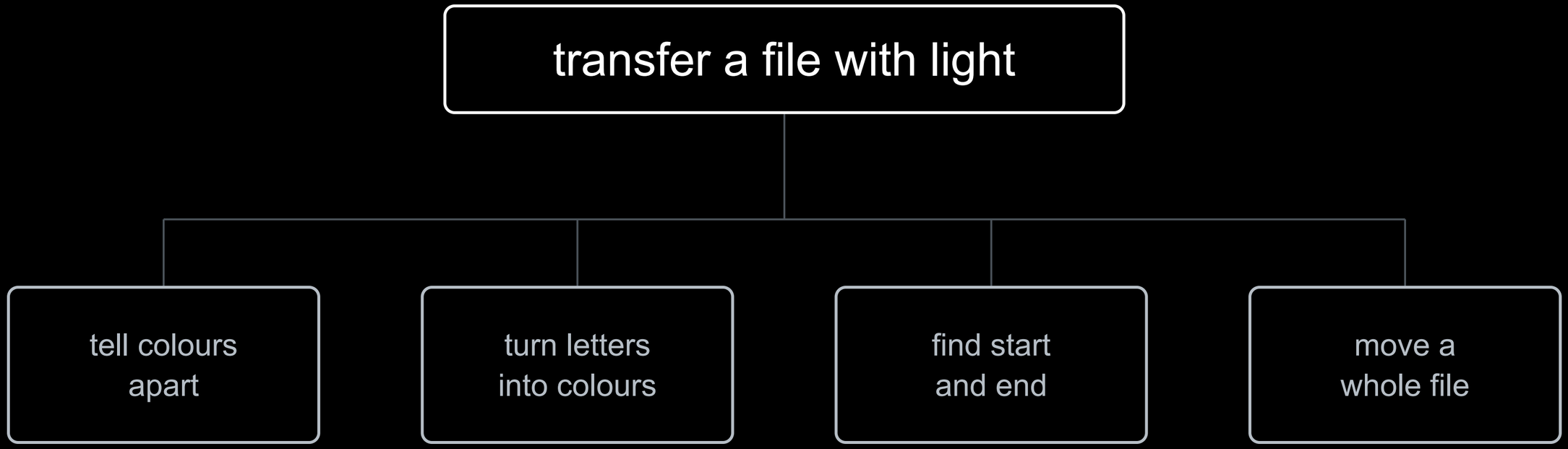
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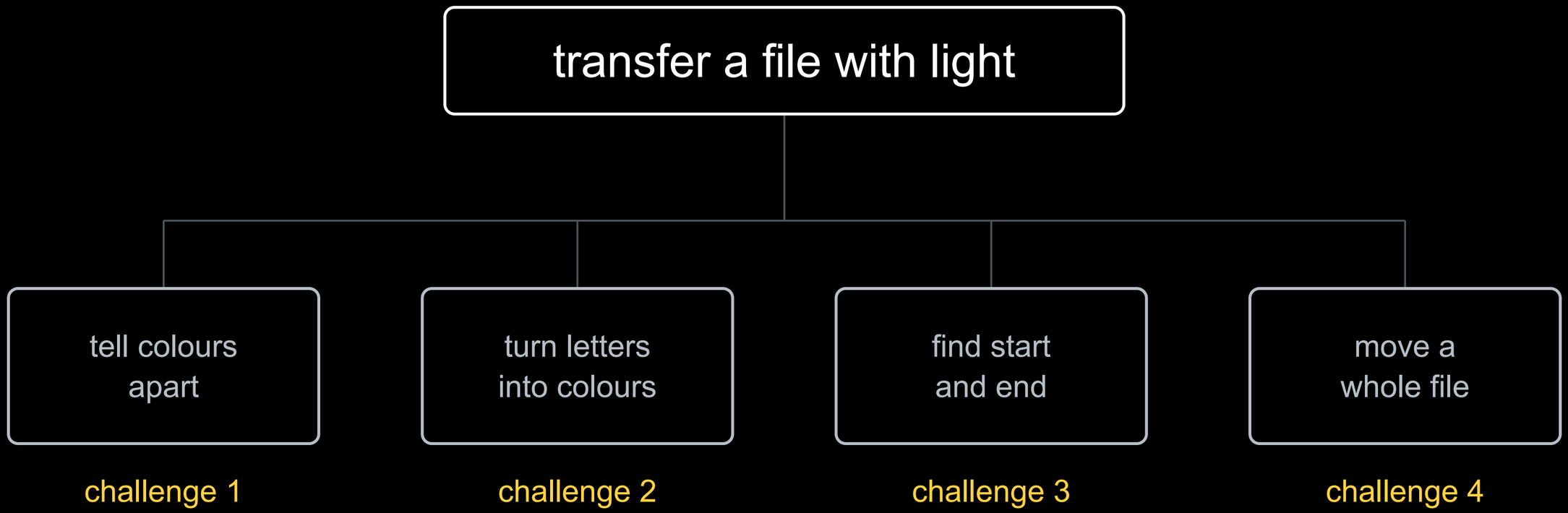
part 1

the elephant

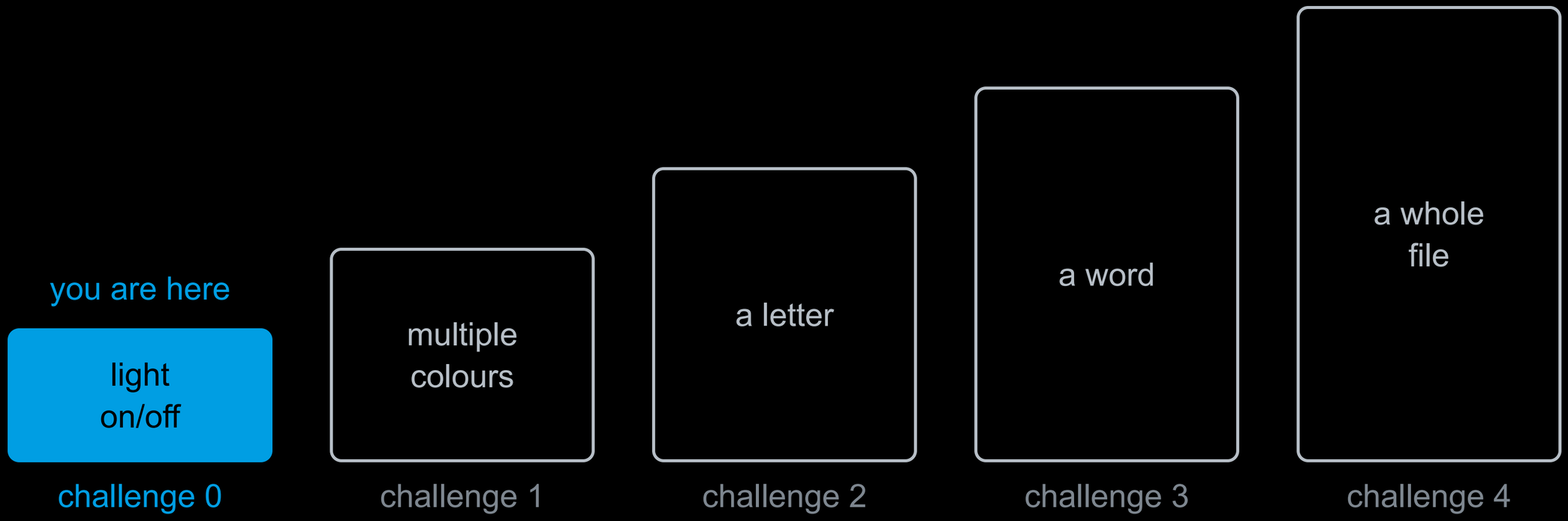
transfer a file from one laptop
to another, using light.

transfer a file with light

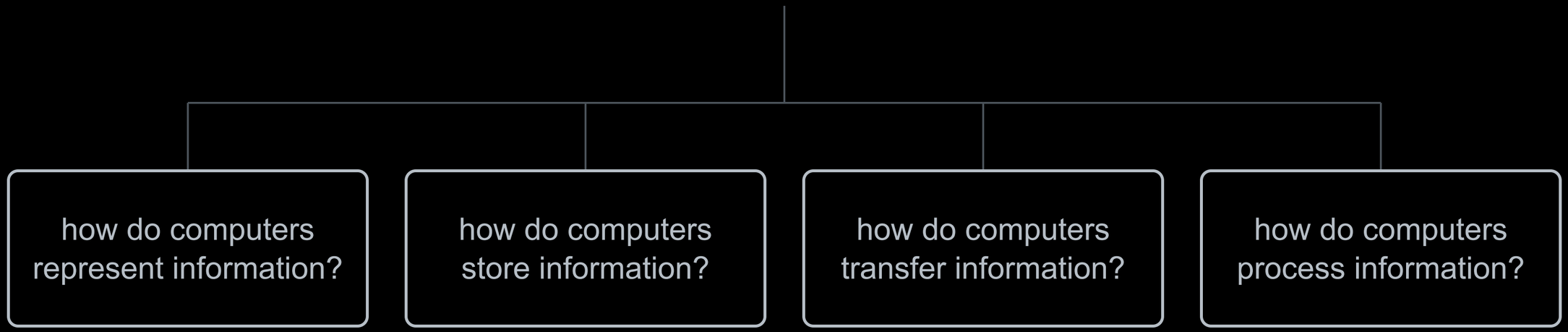

transfer a file with light
tell colours apart
turn letters into colours
find start and end
move a whole file


transfer a file with light
tell colours apart
turn letters into colours
find start and end
move a whole file
challenge 1
challenge 2
challenge 3
challenge 4

start smaller: the challenges are the stairs



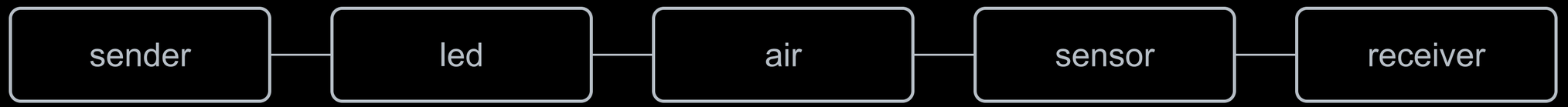
how do computers solve complex problems?



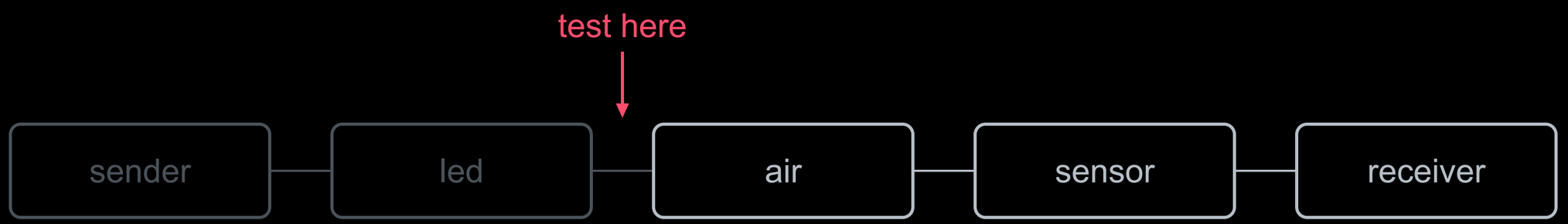
part 2

cutting along the way

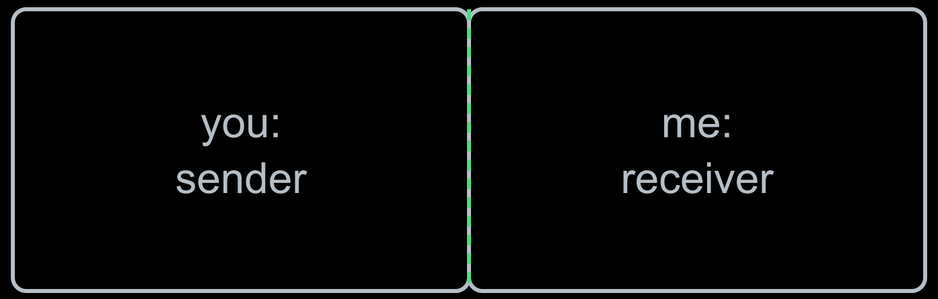
when nothing arrives



when nothing arrives



one person per end of the link



what crosses the border is written down

a testable piece of the project

the receiver works.

red or blue?
right 50 times in a row.

a testable piece of the project

the receiver works.

red or blue?
right 50 times in a row.



and the assistant gets small pieces

one big wish

```
build me the
file transfer.
```

one small piece, with its test

```
read the sensor ten times
and return the average.
test: covered, it stays under 10.
red led on, it goes over 100.
```

you cut the problem, the assistant solves the pieces, and you check each one.

and the assistant gets small pieces

one big wish

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build me the
file transfer.
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one small piece, with its test

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