A Second Paper Trail

Al, Bob, Carl, Dave, and Earl walk into a room where a colored piece of paper is attached to each one's back without them seeing it.

Al says: I see exactly 2 people with red or green or orange.

Bob and Earl agree.

Carl and Dave disagree.

Bob says: I can see that Al or Earl has orange.

Al, Carl, and Dave agree.

Earl disagrees.

Carl says: I see red, blue, green, and orange.

Dave agrees.

Al, Bob, and Earl disagree.

Dave says: I can see that Bob does not have red.

Al, Carl, and Earl agree.

Bob disagrees.

Earl says: I cannot see the paper on my back but I can see the paper on everyone else's back.

Al, Bob, Carl, and Dave agree.

What color is on Bob's back?