

S1. Examples of confederate script in route-giving task

Set A, list 1

1: *Ok, so... the first object is the **pram**. Do you have it? ... Okay. If you start from the red **X**, facing the school, if you ... turn left, go to the end of the road... and turn right, and then left... like on a curving road... and then take the first left...and then take your first right... you go to the end of the road you drop off the **pram** at the book store.*

2: *The next object... is... the **camera**. Do you have it? So... you are facing the book store. Take the road coming outside of the book store, to the left... continue straight on and ignore the next three roads on your right... and drop off the **camera** at the library.*

3: *The next object... is the **bicycle**. Do you have it? ... Ok. So you are facing the library. Go right and take the first left... that road you ignored before... at the end of the road you take a short right...and then a short left... at the end of the road you will cross the road and go straight ahead. You drop off the **bicycle** at the fountain park.*

4: *The next object is... the **bread**. Do you have it? Ok, so... you are facing the fountain park. You exit the fountain park through that same path...you cross the road again...go straight until the end of the road... Then you take a short right...then a very short left...and when you reach the end of the road you turn... left...and then left again...You drop off the **bread** at the bakery.*

5: *The next object is the **car**. Do you have it? Uh... so... from the bakery... so if the bakery is behind you... you take a short left... you ignore the curving road on the left... and go behind that building...up the curving road... until you reach a junction... at the junction you continue straight on... and drop off the **car** at the optician.*

6: *The next object is the **couch**. Do you have it? So... you are facing the optician. Go left... back to that junction you came from... and at the junction you take a short right... you will reach a fork... there you continue right until the end of the road and you drop off the **couch** at the bank.*

7: *The next object is the **mug**. Do you have it? So the bank is behind you. So... coming away from the bank, when you reach the first road on the right... you turn right... you go until the end of the road and there... there is a building in front of you... you go left... and at that kind of roundabout, you take the... second exit... and you continue until you reach the end of the road. Then you turn left... you ignore the first road on your right... and you drop off the **mug** at the cinema.*

8: *The next object is the **barrel**. Do you have it? So... you are facing the cinema. You go left for a short while and then turn right... you drop off the **barrel** at the stadium.*

9: *The next object is the **computer**. Do you have it? So the stadium is **behind** you. Uh... you go straight until the end of the road, and then you take a short right... and a short left again... on that diagonal road... and at the fork you drop off the **computer** at the store.*

10: *The last object is... the... **dog**. Do you have it? So, coming out of the store, go straight forward and at the end of the road, you turn right...and then you turn left... at the end of the road you turn right... and then left again... at the end of the road you turn left... and you drop off the **dog** at the pet store.*

Okay so we need to recap what we have dropped off and where. Count one point for each item delivered to the right location. First, you dropped off the pram at the book store, then the camera at the library,

then the bicycle at the fountain park, then the bread at the bakery, then the car at the optician, then the couch at the bank, then the mug at the cinema, then the barrel at the stadium, then the computer at the store, and lastly the dog at the pet store.

Set A, list 2

1: *Ok, so... the first object is the **buggie**. Do you have it? ... Okay.* If you start from the red **X**, facing the school, if you ... turn left, go to the end of the road... and turn right, and then left... like on a curving road... and then take the first left...and then take your first right... you go to the end of the road you drop off the **buggie** at the book store.

2: *The next object... is... the **camera**. Do you have it?* So... you are facing the book store. Take the road coming outside of the book store, to the left... continue straight on and ignore the next three roads on your right... and drop off the **camera** at the library.

3: *The next object... is the **bike**. Do you have it? ... Ok.* So you are facing the library. Go right and take the first left... that road you ignored before... at the end of the road you take a short right...and then a short left... at the end of the road you will cross the road and go straight ahead. You drop off the **bike** at the fountain park.

4: *The next object is... the **loaf**. Do you have it? Ok,* so... you are facing the fountain park. You exit the fountain park through that same path...you cross the road again...go straight until the end of the road... Then you take a short right...then a very short left...and when you reach the end of the road you turn... left...and then left again...You drop off the **loaf** at the bakery.

5: *The next object is the **car**. Do you have it? Uh... so... from the bakery... so if the bakery is behind you... you take a short left... you ignore the curving road on the left... and go behind that building...up the curving road... until you reach a junction... at the junction you continue straight on... and drop off the **car** at the optician.*

6: *The next object is the **sofa**. Do you have it?* So... you are facing the optician. Go left... back to that junction you came from... and at the junction you take a short right... you will reach a fork... there you continue right until the end of the road and you drop off the **sofa** at the bank.

7: *The next object is the **cup**. Do you have it?* So the bank is behind you. So... coming away from the bank, when you reach the first road on the right... you turn right... you go until the end of the road and there... there is a building in front of you... you go left... and at that kind of roundabout, you take the... second exit... and you continue until you reach the end of the road. Then you turn left... you ignore the first road on your right... and you drop off the **cup** at the cinema.

8: *The next object is the **barrel**. Do you have it?* So... you are facing the cinema. You go left for a short while and then turn right... you drop off the **barrel** at the stadium.

9: *The next object is the **laptop**. Do you have it?* So the stadium is **behind** you. Uh... you go straight until the end of the road, and then you take a short right... and a short left again... on that diagonal road... and at the fork you drop off the **laptop** at the store.

10: *The last object is... the... **dog**. Do you have it?* So, coming out of the store, go straight forward and at the end of the road, you turn right...and then you turn left... at the end of the road you turn right... and then left again... at the end of the road you turn left... and you drop off the **dog** at the pet store.

Okay so we need to recap what we have dropped off and where. Count one point for each item delivered to the right location. First, you dropped off the buggie at the book store, then the camera at the library, then the bike at the fountain park, then the loaf at the bakery, then the car at the optician, then the sofa at the bank, then the cup at the cinema, then the barrel at the stadium, then the laptop at the store, and lastly the dog at the pet store.

Set B, list 1

1: *Ok, so... the first object is the **biscuit**. Do you have it? ...* Okay. If you start from the red **X**, facing the school, you drop off the **biscuit** at the school.

2: *The next object... is... the **footprint**. Do you have it? So... you are facing the school... and you go left to the end of the road and take a very short right and then a very short left... on that curving road...and you ignore the first left... and at the next junction you turn right... you ignore that small junction and go to the end of the road... and you drop off the **footprint** at the museum.*

3: *The next object... is... the **plane**. Do you have it? So you are **on the steps of the main entrance** of the museum... the museum is **behind** you. You go straight up that little road, and at the first junction you turn right... and continue until the very end of the road... there you turn... right and at the next junction you continue straight on. You drop off the **plane** at the bakery.*

4: *The next object... is... the **flower**. Do you have it? So... you **get out of the bakery** and then you turn right. Then you take your first right again. At the end of the road you take a very short right... and then a very short left... At the end of the road there is a junction: you cross the road and continue straight ahead. You drop off the **flower** at the fountain park.*

5: *The next object... is... the **knife**. Do you have it? So... the fountain is **behind you**. You **get out of** the park through the same path and at the junction you turn right. You go straight on and ignore the road on the right... and then you turn left. At the end of the road you turn... right... and you drop off the **knife** at the police station.*

6: *The next object... is... the **glasses**. Do you have it? So... you are **facing** the police station...you go right and take the first left... you are in the same street as you came from. At the end of the street you turn right, and then you turn left. There you continue straight on until you reach a fork... and you drop off the **glasses** at the store.*

7: *The next object... is... the **blouse**. Do you have it? So... you **get out of the store**. You walk **away** from the store... and at the first junction you turn right. Then you turn right again, and you drop off the **blouse** at the hospital.*

8: *The next object... is... the **toothbrush**. Do you have it? You **walk away** from the hospital... and then you turn left. Then you continue straight on until the end of the road... and there you turn left. At the end of the road you can see a building in front of you. You cross the street and drop off the **toothbrush** at the cinema.*

9: *The next object... is... the **pillow**. Do you have it? So you are **facing** the cinema. You go right and ignore the road on the left. Then you continue straight on and ignore the road on your right... then you continue and ignore the road on your left... and at the end of the road you take a very short left. You drop off the **pillow** at the zoo.*

10: *The last object... is... the **bag**. Do you have it?* So the zoo is **behind** you. You walk **away** from the zoo and ignore the first right. You go down that road... and ignore the second right. At the kind of roundabout... you take the first exit left... then you pass a building on the left and turn right. You go down that road... and ignore the first left... then you reach a junction... and take the left... you drop off the **bag** at the optician.

Okay so we need to recap what we have dropped off and where. Count one point for each item delivered to the right location. First, you dropped off the biscuit at the school, then the footprint at the museum, then the plane at the bakery, then the flower at the fountain park, then the knife at the police station, then the glasses at the store, then the blouse at the hospital, then the toothbrush at the cinema, then the pillow at the zoo, and lastly the bag at the optician.

Set B, list 2

1: *Ok, so... the first object is the **cookie**. Do you have it?* ... Okay. If you start from the red **X**, facing the school, you drop off the **cookie** at the school.

2: *The next object... is... the **footprint**. Do you have it?* So... you are facing the school... and you go left to the end of the road and take a very short right and then a very short left... on that curving road...and you ignore the first left... and at the next junction you turn right... you ignore that small junction and go to the end of the road... and you drop off the **footprint** at the museum.

3: *The next object... is... the **aeroplane**. Do you have it?* So you are **on the steps of the main entrance** of the museum... the museum is **behind** you. You go straight up that little road, and at the first junction you turn right... and continue until the very end of the road... there you turn... right and at the next junction you continue straight on. You drop off the **aeroplane** at the bakery.

4: *The next object... is... the **rose**. Do you have it?* So... you **get out of the bakery** and then you turn right. Then you take your first right again. At the end of the road you take a very short right... and then a very short left... At the end of the road there is a junction: you cross the road and continue straight ahead. You drop off the **rose** at the fountain park.

5: *The next object... is... the **knife**. Do you have it?* So... the fountain is **behind you**. You **get out of** the park through the same path and at the junction you turn right. You go straight on and ignore the road on the right... and then you turn left. At the end of the road you turn... right... and you drop off the **knife** at the police station.

6: *The next object... is... the **spectacles**. Do you have it?* So... you are **facing** the police station...you go right and take the first left... you are in the same street as you came from. At the end of the street you turn right, and then you turn left. There you continue straight on until you reach a fork... and you drop off the **spectacles** at the store.

7: *The next object... is... the **shirt**. Do you have it?* So... you **get out of the store**. You walk **away** from the store... and at the first junction you turn right. Then you turn right again, and you drop off the **shirt** at the hospital.

8: *The next object... is... the **toothbrush**. Do you have it?* You **walk away** from the hospital... and then you turn left. Then you continue straight on until the end of the road... and there you turn left. At the end of the road you can see a building in front of you. You cross the street and drop off the **toothbrush** at the cinema.

9: *The next object... is... the **cushion**. Do you have it?* So you are **facing** the cinema. You go right and ignore the road on the left. Then you continue straight on and ignore the road on your right... then you continue and ignore the road on your left... and at the end of the road you take a very short left. You drop off the **cushion** at the zoo.

10: *The last object... is... the **bag**. Do you have it?* So the zoo is **behind** you. You walk **away** from the zoo and ignore the first right. You go down that road... and ignore the second right. At the kind of roundabout... you take the first exit left... then you pass a building on the left and turn right. You go down that road... and ignore the first left... then you reach a junction... and take the left... you drop off the **bag** at the optician.

Okay so we need to recap what we have dropped off and where. Count one point for each item delivered to the right location. First, you dropped off the cookie at the school, then the footprint at the museum, then the aeroplane at the bakery, then the rose at the fountain park, then the knife at the police station, then the spectacles at the store, then the shirt at the hospital, then the toothbrush at the cinema, then the cushion at the zoo, and lastly the bag at the optician.

S2. Number of aligned responses by type and condition in the route-giving task

Table S2. *Response type count for route-giving task*

Prime type	Round	Participant nativeness	Confederate nativeness	N aligned responses
Disfavored	2	Non-native	Native	32
Favored	2	Non-native	Native	52
Disfavored	4	Non-native	Native	25
Favored	4	Non-native	Native	51
Disfavored	2	Native	Native	29
Favored	2	Native	Native	59
Disfavored	4	Native	Native	30
Favored	4	Native	Native	59
Disfavored	2	Non-native	Non-native	32
Favored	2	Non-native	Non-native	42
Disfavored	4	Non-native	Non-native	30
Favored	4	Non-native	Non-native	43
Disfavored	2	Native	Non-native	42
Favored	2	Native	Non-native	65
Disfavored	4	Native	Non-native	41
Favored	4	Native	Non-native	61

S3. Number of aligned responses by type and condition in the recap

Table S3. *Response type count for recap*

Prime type	Round	Participant nativeness	Confederate nativeness	N aligned responses
Disfavored	2	Non-native	Native	25
Favored	2	Non-native	Native	3
Disfavored	4	Non-native	Native	17
Favored	4	Non-native	Native	0
Disfavored	2	Native	Native	31
Favored	2	Native	Native	1
Disfavored	4	Native	Native	29
Favored	4	Native	Native	2
Disfavored	2	Non-native	Non-native	25
Favored	2	Non-native	Non-native	2
Disfavored	4	Non-native	Non-native	27
Favored	4	Non-native	Non-native	2
Disfavored	2	Native	Non-native	38
Favored	2	Native	Non-native	1
Disfavored	4	Native	Non-native	35
Favored	4	Native	Non-native	4