LOOKING LEADERSHIP IN THE FACE

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ABSTRACT

Given what we know about predictors of leader ability, facial appearance should play a small or very limited role in how observers select leaders; however, research convincingly shows otherwise. In this article, we review which consequential leader outcomes are predicted by facial appearance. We explain why observers are inclined to take heuristic decisions using facial cues, discuss whether facial appearance carries credible information, and identify the conditions that may attenuate “face effects.”

Keywords: Leadership, face-ism, facial appearance, effectiveness, emergence.
When judging candidates for a leadership position, selectors need accurate information on the competence and trustworthiness, among other characteristics, of the individual concerned. Ideally, selectors—such as company board members choosing a CEO, or voters choosing a politician—should use valid cues and weigh all relevant information in their decisions.

Research shows that facial appearance matters considerably for leader selection (Todorov, Mandisodza, Goren, & Hall, 2005). In literally milliseconds, observers use slivers of information to make inferences about the target’s character (Willis & Todorov, 2006). The more distant observers are from leaders, or the less tangible information observers have, the more likely they will use any information, including looks, to infer about leader’s ability or trustworthiness (Antonakis & Jacquart, 2013). Deriving inferences from facial appearances is called “face-ism” (Olivola, Funk, & Todorov, 2014).

Using facial cues when other information is not available is rational and to an extent adaptive. However, in certain conditions, observers pay inordinate attention to a target’s face (Todorov, Olivola, Dotsch, & Mende-Siedlecki, 2015) and may even discount more valid information (Olivola & Todorov, 2010). The situations under which observers use facial appearance and its consequences pose interesting problems for psychology given the ubiquity of this phenomenon (Todorov, et al., 2015).

Our focus is on leadership: We discuss what consequential outcomes facial appearance predicts and why individuals infer characteristics from the face. These issues are interesting to address from a basic research point of view, but are also very important because of their policy implications.

WHAT DOES FACIAL APPEARANCE PREDICT?

To motivate the themes we discuss, suppose we undertook an experiment with young children who do not know the terms “competence” or “leadership,” but who do understand what a boat
captain does. We ask the children to play a game reenacting the voyage of Odysseus from Troy to Ithaca, thus making salient the captain role. The children then assume that they would undertake the voyage for real; their task is to make a choice between the two individuals depicted in Figure 1 (Antonakis & Dalgas, 2009). Who would they chose?

**FIGURE 1**
Who would you choose as the captain of your boat?

The person on the left
The person on the right

Figure caption: The above set of photographs were taken from official Senate pictures, cropped, and put on the same background. This is the same set of photographs used by Antonakis and Dalgas (2009) to make predictions for the Democratic party nomination, wherein Swiss children—who were obviously far removed from U.S. political news—favored Barak Obama (left) over Hillary Clinton (right). Data on this, and other election races were gathered between 30th May to 1st June 2008, a few days prior to Obama clinching the nomination.

Experiments such as the one depicted above, were brought to the fore by Alexander Todorov and his colleagues; as far as political contexts are concerned, naïve subjects are typically asked to choose who, between two individuals—usually the winner and runner up of an election race—is the more competent, intelligent, and leaderlike (Todorov, et al., 2005). These experiments, using U.S. congressional elections, showed that naïve subjects reliably picked the winner even if exposed to the faces for 1 second; although real voters do use additional information beyond the target’s face, that naïve raters predict their choices suggests voters are anchored on their initial impressions, presumably formed from facial inferences (Todorov, et al., 2005).

To better understand the gist of the Antonakis and Dalgas (2009) experiment, beyond the U.S. nomination race depicted in the figure they also showed pairs of faces (same sex and race)
of 57 French parliamentary run-off elections to 681 children; the probability of a child choosing the winner was 71%! The results were fascinating because child participants chose political candidates in an indistinguishable way from adult participants who rated the targets on competence, intelligence, and leadership ability, and this regarding a poorly-publicized election in another country. Important to note is that nomination or primary races are unlike high-stakes general elections. The latter are more information rich (e.g., elections for the presidency of the U.S.) and other factors may come in to play in leader selection including incumbency, economic performance, and charisma (Jacquart & Antonakis, 2015), suggesting that face effects would play a lesser role (see also Ahler, Citrin, Dougal, & Lenz, 2016).

Much research has undertaken studying face effects in a variety of contexts. Findings generally show that participants, using only facial appearance of targets and rating them on competence, intelligence, leadership, or attractiveness, can well predict the winner across a variety of political contexts (Ahler, et al., 2016; Antonakis & Dalgas, 2009; Lawson, Lenz, Baker, & Myers, 2010; Sussman, Petkova, & Todorov, 2013; Todorov, et al., 2005). Facial appearance (e.g., looking powerful, competent), is also critical for leader success in business settings (Linke, Saribay, & Kleisner, 2016; Rule & Ambady, 2008, 2011; Stoker, Garretsen, & Spreeuwers, 2016). These effects work similarly when rating males and females (see Todorov, et al., 2015), though some difference exist (e.g., judgments of attractiveness have a stronger impact on females, see Berggren, Jordahl, & Poutvaara, 2010).

Facial appearance also influences other affect-oriented outcomes, which are important in how leaders are judged, including trustworthiness (Rezlescu, Duchaine, Olivola, & Chater, 2012). Important to note too is that in political settings, experimental designs, which randomize participants to receive realistic ballot materials with or without candidate photos show that appearance plays a causal role in affecting voting outcomes (Ahler, et al., 2016). Also,
computation models using face morphing have isolated features that causally impact inferences of dominance, extraversion, or competence (Olivola, Funk, et al., 2014). Overall, the literature clearly shows that facial appearance provides an advantage to leaders, which translates into consequential success (e.g., leader emergence or other outcomes).

WHY DO FACE EFFECTS EXIST?

Is there something in one’s face that signals certain underlying abilities and do individuals learn to identify facial configurations that predict outcomes? That children having little experience evaluating leaders do so in similar ways to adults, suggests that it is not experiential learning driving the result but something else (Antonakis & Dalgas, 2009). In addition, inferences are done in milliseconds (Willis & Todorov, 2006), judgments generalize across cultures (Berggren, et al., 2010)—though with some nuances regarding attributes used (Rule et al., 2011)—there is usually strong consensus across raters regarding inferences made (Penton-Voak, Pound, Little, & Perrett, 2006), and individual decisions correlate with particular brain regions (Rule et al., 2011; Todorov, Baron, & Oosterhof, 2008). These results suggest we may be hardwired to infer information from faces.

The above findings suggest that inferences based on faces are automatic and that some evolutionary mechanism, perhaps adapted for a purpose other than leader selection (e.g., sexual selection, detecting a threatening individual), explains some of the results. We know that humans and animals hold information in schematic form and can quickly act on external stimuli using rules-based probabilistic reasoning (Cosmides & Tooby, 1996). Heuristic decision-making of this sort must have provided certain evolutionary advantages in decision making. Science is not at the point of answering definitively how evolutionary forces shaped our decision-making for leader selection. However, facial appearance does carry a “kernel of truth” (Rhodes, Chan, Zebrowitz, & Simmons, 2003). Facial symmetry, which is thought to indicate general fitness correlates albeit
weakly with intelligence (Banks, Batchelor, & McDaniel, 2010) and with extraversion (Pound, Penton-Voak, & Brown, 2007); these two traits that are important determinants of leader emergence and effectiveness (Antonakis & Jacquart, 2013).

If evolved cues from the face are honest and provide some benefit to the signaler and receiver, then individuals should be able to reliably detect them. Perceptions of physical strength do correlate quite strongly with actual strength (Sell et al., 2009). Perceived and self-reported extraversion correlate modestly (Penton-Voak, et al., 2006). The correlations between perceived and actual intelligence are weak overall—however, judgment accuracy substantially improves for targets having a less attractive and asymmetrical appearance. That is, for individuals who appear more attractiveness and symmetrical, it is not possible to identify variations in intelligence (i.e., once a critical threshold of attractiveness is traversed there is not much variation in fitness to detect); this research suggests a possible evolved mechanism for detecting “bad” genes (Zebrowitz & Rhodes, 2004).

There are also good arguments suggesting that evolutionary adaptation for leader selection is shaped by situational requirements (Von Rueden & Van Vugt, 2015)—individuals can accurately identify classes of leaders (e.g., military, sports, business) from facial appearance alone, indicating some sorting as a function of facial cues (Olivola, Eubanks, & Lovelace, 2014). Also, who is judged to be an appropriate leader varies as a function of context including various threats to the collective (e.g., see Bøggild & Laustsen, 2016; Spisak, Grabo, Arvey, & van Vugt, 2014).

**IS THE FACE A VALID PREDICTOR OF LEADER EFFECTIVENESS?**

Although facial appearance matters for leader success, it is important to qualify what success means: Typically, in leadership studies it can mean (a) leader emergence or other outcomes like likeability or trustworthiness or (b) objective ratings of leader effectiveness (Antonakis &
Jacquart, 2013). Consider leader emergence in political settings: We know that naïve raters are able to predict choices made by voters (i.e., leader emergence). However, this result does not establish that the most competent and effective leaders were selected. It just means that naïve individuals with little information on leaders chose just like voters did who had more information on the leaders. Additionally, if the most competent had been selected, all leaders would be highly intelligent, which is not the case, at least in political settings (Antonakis & Jacquart, 2013).

Regarding business settings, ratings of leader faces correlate with firm-level outcomes (Rule & Ambady, 2008; Wong, Ormiston, & Haselhuhn, 2011); however, these results may have several explanations because leader faces are not exogenous (i.e., leaders were not randomized to companies). It is possible that better performing companies chose leaders on their appearance. Thus, establishing a causal and not merely correlational relation between perceived facial competence and objective outcomes of effectiveness requires the application of robust econometric methods to eliminate confounding variables (Antonakis, Bendahan, Jacquart, & Lalive, 2010).

Recent studies—which have been careful to disentangle emergence from effectiveness and minimized validity threats to causality—demonstrate that appearance plays a significant role in being selected as a leader (Stoker, et al., 2016) or being paid a higher salary (Graham, Harvey, & Puri, 2016), again showing that emergence can depend on facial appearance. However, facial appearance does not seem to play a causal role in predicting actual firm performance (Graham, et al., 2016; Stoker, et al., 2016).

IS FACE-ISM ADAPTIVE?

Evolution usually “gets it right” regarding innate decision-making mechanisms. Perhaps some of the evolved mechanisms we have were useful for our ancestral environments, whether for sexual selection or even for leader selection in some situations (e.g., where phenotypic signals like
strength, dominance, or other factors mattered for leadership). Yet, it seems too that our genetic baggage may not be fully compatible with our current social and technological demands—what has been called the “mismatch hypothesis” by evolutionary psychologists (Van Vugt, Hogan, & Kaiser, 2008). That the mismatch effect occurs is likely given we know that observers have a propensity to discount valid cues of a target when exposed to a target’s face (Olivola & Todorov, 2010).

Face-sim, however, might still have functional value for collectives. For instance, certain features of a target’s face (e.g., how powerful, dominant, or extraverted the target appears) may increase the likelihood that the target emerges as a leader. These features may also provide positive externalities for the leader or the collective via two other mechanisms, stemming from what may be a self-fulfilling prophecy (Todorov, et al., 2015): (a) observers of the leader (e.g., negotiating partner) might treat the leader as if these features are reliable proxies of the leader’s true underlying abilities, and may be more deferential to the leader or trust the leader more (e.g., see Rezlescu, et al., 2012) and (b) having a certain characteristic may make the individual exhibit a behavior associated with the trait or become more confident because of how the individual is treated by others (e.g., see Judge & Cable, 2004, for the case of height).

Evidence shows that facial appearance (e.g., looking trustworthy) still plays a significant role even in situations where more valid information is available (Olivola, Sussman, Tsetsos, Kang, & Todorov, 2012; Rezlescu, et al., 2012) suggesting that face-ism is not fully adaptive. Interestingly, observers who are more knowledgeable and have more relevant information (Ahler, et al., 2016), or who watch less television (Lenz & Lawson, 2011) are less susceptible to face effects. Also, although observers might discount relevant information when available, they do still pay attention to other cues, particularly body language, when inferring emotions, which may
have been adaptive for judging threat from a distance (Martinez, Falvello, Aviezer, & Todorov, 2016).

Finally, although the focus of face-ism is usually on observers, targets can also affect how they are seen. For instance, by strongly and consistently signaling competence and trustworthiness via verbal and nonverbal behavior indicative of charismatic leaders, targets can reduce or go beyond the effects of their appearance to affect leader outcomes (Antonakis, Fenley, & Liechti, 2011). This area of research is still young, and more research is needed to understand how facial stereotypes can be counteracted by actions taken by the target.

CONCLUSION
Facial cues may correlate with outcomes not only because they may cause them but because of how individuals with certain facial features are treated and expected to act (Todorov, et al., 2015). There is still much to learn about the nature of face-ism, which elements are adaptive, and how policies can be designed to counteract possible negative effects. We also need to learn more about its moderating conditions and mediating mechanisms.

Still, as we have shown in our review, there are sufficient findings in the literature to know about face-ism’s consequences and that valid cues about a target’s characteristics might be dominated by cues stemming from facial appearance. Thus, raising awareness in educators, policy makers, and practitioners is imperative. Moreover, some simple measures could be taken to improve validity in evaluations by training evaluators to appropriately ponder and aggregate information cues that are valid indicators of a leader’s character and competence, and hence future performance. Other valuable avenues include minimizing exposure to face cues in evaluation processes when possible.

As presciently written by Shakespeare in Macbeth: “There’s no art to find the mind's construction in the face”. 
RECOMMENDED READINGS


ENDNOTES

¹This means that it is not possible to read one’s character from one’s looks.
REFERENCES


