

The Voice of Understanding\*

#### Like My Style: Conversation Style 101 for Bots

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## Like My Style?

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### **Conversation Gone Bad?**

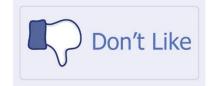
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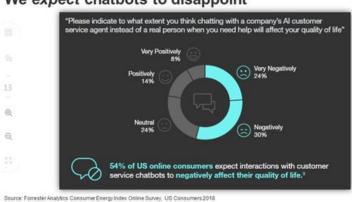






## **The Problem**

- Conversation style sets expectations
  - Impacts how listeners respond & engage
- Mismatch leads to failed expectations & interactions
- Mismatch impacts the ROI & benefits of bots



54% of US consumers expect <u>talking to AI bots</u> will impact their quality of life <u>negatively</u>.

\* Source: Forrester Analytics Consumer Energy Index Online Survey, US Consumers, 2018

#### We expect chatbots to disappoint \*



## Your Opportunity

- Understand the dimensions that determine style
- Know what questions to ask & how the answers determine style
- Create more effective bots
- Reap the benefits of your investment





## SAVIC<sup>54</sup> Style Mismatches

Purpose	Social, informational, educational, political, customer service, retention, personal assistant,		
Demographics	Culture, age, gender, occupation, education, location,		
Setting	Social, relationships, accessibility, channel, media,		
Information organization	Order of concepts, introductions, repetition, summary, hierarchy vs. linear,		
Personality	Preferences, attitude, aptitude, learning style, life style,		
Linguistic	Language, dialect, formality, grammar, Vocabulary, jargon, slang, word order, Prosody, intonation, volume, pronunciation, delivery, Auditory, visual, movement, touch, "Rules of engagement": Turn-taking, topic change, pacing, pausing, interrupting, back channeling, handling misunderstandings,		



## **Conversation Models**

#### Sports Models

- From foreign language learning
- Turn-taking, pausing, control
- Who has the ball? = Who is talking?
- **Sensory Models** 
  - From perceptual learning and processing
  - How senses engage in communication

#### Other Models

- From sociolinguistics & HCI
- Personality, Intention, Involvement, Politeness

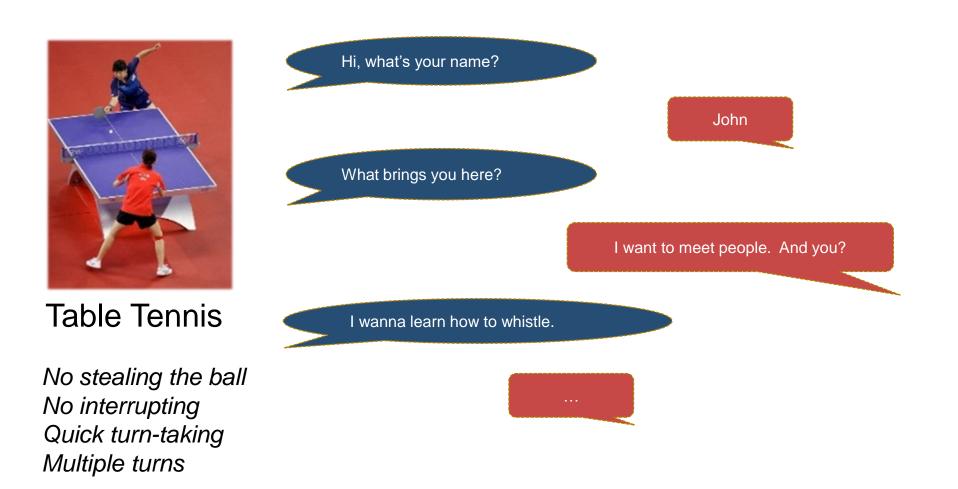








## Ping Pong





## Bowling



Blue is a beautiful color... waves of the ocean. My favorite crayon colors are Cerulean Blue, Green-Blue, Midnight Blue, Sky Blue, Wave Blue, and especially Cornflower. Just saying the word Cornflower makes me feel like a flower on the wall. Orchid, iris, hydrangea, forget-me-not.... I love Blues music, blue moons, and blue cheese dressing. Chris Blue is the life of the party because he tells a joke or two....

What's your favorite color?

listens and waits turn>

No stealing the ball No interrupting Long turns



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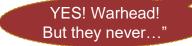
#### Basketball



Did you see those crazy robots in Veg...?

OMG! One of them was baking bread and I played a game with another and..."

I know, right? And did you see that robo shark? So James Bond! Did you know Sean Connery wrote...



Stealing the ball Interrupting Medium turns



## **Sports Styles Turn-Taking**

	Interrupting		
	Turn-Taking:	Waiting Your Turn	Stealing the Ball/ Interrupting OK
	Quick turns, few pauses	Ping Pong	Rugby
Speed & Pausing	Medium turns, tactical flexible pausing	Volleyball	Basketball
	Longer turns, Rule-based prescribed pauses	Bowling	American Football



# **Sensory Styles for Bots**

Visual



- Text, font, icons
- Graphics, color
- Screens, links, figures

Auditory



- Speech, voice
- Sounds, jingles, music
- Phones, devices

Kinetic



- Touch, motion
- Gestures, shapes
- Spatial, sensors, robots



## Cater to the Senses







Written & Graphical	Verbal & Audio	Tactile & Movement
Complex info & concepts	Simple info, easy to explain	Instinctive info
Facts, interpretation of emotions	Emotional content	Direct emotions, physical & spatial relationships
Permanent, persistent	Ephemeral, short-lived, impermanent	Precision from touch, motion & gesture
Quiet zones, audio privacy	Speed, time urgency	Immediate interaction, physical intimacy



### Sensory Style Affects Language

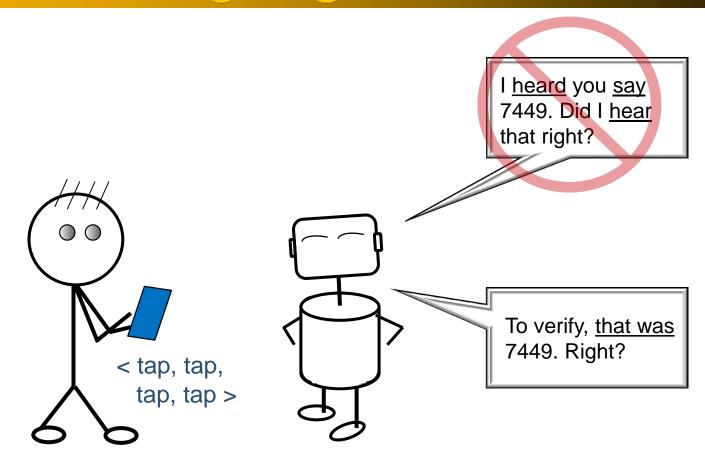


Figure from the upcoming book 'Voice-First Development' by Thyme-Gobbel & Jankowski



### **Other Dimensions**

**Culture & Demographics** 

Power/Respect/Trust

Personality & Persona

Social Interaction Style

Style of Influence

Purpose

Mental/Emotional

Attitudes

**Practical Circumstances & Context** 

# How to Apply Styles

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## **Tips for Bot Style**

- Models can apply to a whole system or turn by turn
- Style can be personalized for cultural, personal or situational context
- Understand what conversation styles are appropriate for specific contexts
- Create a Persona Style Sheet for your bot
  - conversation style(s), turn-taking, sensory interaction, example wording, ...
- Know when & how to switch style
  - e.g. lively small talk versus giving bad news



## **5** Style Questions

When you design any bot, ask

- 1. What look/sound/feel to meet business goals?
- 2. What senses to engage in the conversation?
- 3. What style & personalization do users expect?
- 4. How to handle turn-taking?
- 5. What conversation results in effective interaction?

### **Thoughts & Questions?**



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