

Meow mate: Scientists hope robo-cats can help seniors

By MICHELLE R. SMITH
Associated Press

PROVIDENCE, R.I. — Imagine a cat that can keep a person company, doesn't need a litter box and can remind an aging relative to

take her medicine or help find her eyeglasses.

That's the vision of toymaker Hasbro and scientists at Brown University, who have received a three-year, \$1 million grant from the National Science Foundation to find

ways to add artificial intelligence to Hasbro's "Joy for All" robotic cat.

The cat, which has been on the market for two years, is aimed at seniors and meant to act as a companion. It purrs and meows, and even appears to lick its paw and

roll over to ask for a belly rub. The Brown-Hasbro project is aimed at developing additional capabilities for the cats to help older adults with simple tasks.

Researchers at Brown's Humanity-Centered Robotics Initiative are

working to determine which tasks make the most sense, and which can help older adults stay in their own homes longer, such as finding lost objects, or reminding the owner to call someone or go to a doctor's appointment.

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Appointments are gladly accepted!

THE DAILY ASTORIAN TV SCHEDULE

Evening listings WEDNESDAY

WEDNESDAY EVENING												DECEMBER 20	
A	L	6 PM	6:30	7 PM	7:30	8 PM	8:30	9 PM	9:30	10 PM	10:30	11 PM	11:30
2	KATU	(2) KATU News at 6 (N)		Jeopardy! (N)	Wheel Fortune (N)	The Goldbergs	Speechless	Modern Family	Amer. Housewife	Match Game		KATU News (N)	(3:35) Jimmy Kimmel
3	KOMO	(4) KOMO 4 News (N)		Wheel Fortune (N)	Jeopardy! (N)	The Goldbergs	Speechless	Modern Family	Amer. Housewife	Match Game		KOMO 4 News (N)	(3:35) Jimmy Kimmel
5	KING	(5) NBC News (N)	KING 5 News (N)	KING 5 News (N)	Evening	Will & Grace	*** Pitch Perfect (2012, Comedy) Brittany Snow, Rebel Wilson, Anna Kendrick.					KING 5 News (N)	(3:35) Tonight Show
6	KOIN	(6) KOIN Local 6 (N)	Evening News (N)	Extra	Ent. Tonight	Survivor: Heroes vs. Healers vs. Hustlers "Finale" (SF) (N)				Survivor "Reunion" (N)		KOIN 6 News (N)	(3:35) Colbert
7	KIRO	(7) KIRO 7 News (N)	Evening News (N)	KIRO 7 News (N)	Ent. Tonight	Survivor: Heroes vs. Healers vs. Hustlers "Finale" (SF) (N)				Survivor "Reunion" (N)		KIRO News (N)	(3:35) Colbert
8	KGW	(8) KGW News at 6:00 p.m. (N)		Live at 7 (N)	Inside Edition	Will & Grace	*** Pitch Perfect (2012, Comedy) Brittany Snow, Rebel Wilson, Anna Kendrick.					KGW News (N)	(3:35) Tonight Show
9	KRCW	(9) Modern Family	Modern Family	The Goldbergs	The Goldbergs	Grandma Got Run Over by a Reindeer	Christmas Movies			News at 10 (N)	Mom	Two and a Half	Two and a Half
10	KOPB	(10) Journeys in Japan	Business (N)	PBS NewsHour (N)		Nature	Nova "Bird Brain" (N)			City in the Sky "Airborne"		How to Stay Young	
12	KPTV	(12) 6 O'Clock News (N)		Family Feud	Family Feud	Empire "Full Circle"	Star "Insecure"			10 O'Clock News (N)		News (N)	Page Six TV
13	KPDx	(13) Mike & Molly	Mike & Molly	Big Bang Theory	Big Bang Theory	FOX 12's News (N)	9 O'Clock News (N)			Family Guy	American Dad!	The Game	The Game
13	KCPQ	(13) Modern Family	Modern Family	Big Bang Theory	Big Bang Theory	Empire "Full Circle"	Star "Insecure"			Q13 News at 10 (N)		Q13 News (N)	The Simpsons
20	TBS	(20) Family Guy	Family Guy	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Big Bang Theory	Full Frontal	Conan	Conan
22	KZJL	(22) Friends	Friends	The Goldbergs	The Goldbergs	Modern Family	Q13 News at 9 (N)			Big Bang Theory	Big Bang Theory	Two and a Half	Two and a Half
29	ESPN	(29) (5:00) NCAA Football	Frisco Bowl Site: Toyota Stadium Texas - Frisco, Texas (L)			SportsCenter	The day's news in the world of sports. (N)			SportsCenter (N)		SportsCenter (N)	
30	ESPN2	(30) NCAA Basketball	Wofford at North Carolina (L)			NCAA Basketball	Kansas State vs. Washington State (L)			Jalen & Jacoby (N)	The Fantasy Show	NFL Live	NFL Live
31	NICK	(31) Henry Danger	Santa Hunters "14, Family) Breanna Yde, Benjamin Flores Jr.			The SpongeBob Movie: Sponge Out of Water "15) Antonio Banderas.				Fresh Prince 1/2	Fresh Prince 2/2	Friends	Friends
32	DISN	(32) Jessie	Bunk'd	Bunk'd	Raven's Home	Home Alone: The Holiday Heist "12) Christian Martyn.				(0:05) K.C. Underc.	Liv and Maddie	Bizaardvark	Raven's Home
34	FAM	(34) Movie	(4:30) *** National Lampoon's Christmas Vacation "89) Chevy Chase.			(5:00) *** Elf (2003, Comedy) James Caan, Bob Newhart, Will Ferrell.						The 700 Club	
35	FMC	(35) (4:30) Wild "14)	(5:00) Wild (2014, Biography) Gabby Hoffman, Laura Dern, Reese Witherspoon.			(10) FXM Presents	Paper Towns (2015, Drama) Cara Delevingne, Halston Sage, Nat Wolff.						(4:45) FXM Presents
36	LIFE	(36) Grey's Anatomy	"Into You Like a Train"	Grey's A. "Something to Talk About"		Little Women ATL (5:00) LW Atlanta	LW Atlanta "Caught in the Middle" (N)			Terra'sBigHouse "Budget Blues"		LittleW. (1:15) LittleW.	
39	ROOT	(39) NCAA Basketball	Rice vs. New Mexico			NCAA Basketball	Mississippi Valley State University at UNLV (L)			Press Pass (N)	UFC UFC 193		
39	FS1	(39) NCAA Basketball	South Carolina - Upstate at Creighton (L)			Speak for Yourself				TMZ Sports (N)	Skip and Shannon: Undisputed Opinions on the biggest sports topics of the day.	UFC Top Ten	
43	SPIKE	(43) Friends	Friends	Friends	Friends	Friends	Friends	*** Road House (1989, Action) Sam Elliott, Ben Gazzara, Patrick Swayze.					
44	COM	(44) (1:15) South Park	(5:00) South Park	#HappyHolograms" (2:25) South Park		South Park	South Park	South Park	South Park	South Park	South Park	The Daily Show (N)	The Opposition
45	HIST	(45) Pawn Stars	Pawn Stars	Pawn Stars	Pawn Stars	Vikings "The Plan"				Knighfall (N)		Knighfall	
46	A&E	(46) Storage Wars	Storage Wars	Storage Wars	Storage Wars	Storage Wars	Storage Wars	Storage Wars (N)	Storage Wars (N)	OzzyandJack "Mission to Mars" (N)		(0:05) Storage Wars	(3:35) Storage Wars
47	TLC	(47) Say Yes-Dress	Say Yes-Dress	My 600-lb Life "Diana's Story" Once thin and active, Diana is now 620lbs.		My 600-lb Life	"Kirsten's Story" Kirsten is close to losing all her mobility.					My 600-lb Life "Diana's Story"	
48	DISC	(48) Homestead	"When Cows Attack"	Homestead Rescue "The Hill of Death"		Homestead "Ozark Mountain Misery"	Homestead Rescue "Drowning" (N)			Rescue (N) (1:05) Rescue		(0:05) Homestead Rescue "Drowning"	
49	NGEO	(49) Critical	"Sharks Under Attack" (N)	Explorer: Warlords of Ivory		DianFoss "Dark Side of the Mountain"	DianFoss "Murder on the Mountain" (N)			Locked Up Abroad	"Puerto Vallarta"	Mission Critical "Sharks Under Attack"	
50	TNT	(50) (5:00) *** The Hunger Games "12) Josh Hutcherson, Jennifer Lawrence.				Librarians "And the Silver Screen" (N)	Librarians "And the Steal of Fortune" (N)			The Librarians "And the Silver Screen"		Librarians "And the Steal of Fortune"	
51	AMC	(51) *** Happy Feet Two (2011, Family) Robin Williams, Pink, Elijah Wood.				*** Scrooged (1988, Fantasy) Karen Allen, Carol Kane, Bill Murray.				*** Scrooged (1988, Fantasy) Karen Allen, Carol Kane, Bill Murray.			
52	USA	(52) Law & Order: S.V.U. "Intersecting Lives"		Law & Order: S.V.U. "Making a Rapist"		Law & Order: S.V.U. "Net Worth"	Law & Order: S.V.U. "Know It All"			Law & Order: S.V.U. "Real Fake News"		Law & Order: S.V.U. "Imposter"	
53	FOOD	(53) Iron Chef America "Symon vs. Hearst"		Iron Chef America "Symon vs. Okuwa"		Iron Chef "Battle Bobby Play All Day"	Iron Chef "Battle Deep Sea Duel" (N)			Iron Chef: Behind the Battle (N)		Iron Chef USA "Symon Vs. Goldman"	
54	HGTV	(54) Property Brothers "Big City Move"		Property "Rustic Meets Modern Design"		Property Brothers "Miles Apart"	Property Brother "Great Outdoors" (N)			House Hunters (N)	House Hunters (N)	Property Bros. "Hunting for the One"	
56	FX	(56) Christmas With the Kranks	Tim Allen.	Law & Order "Charity Case"		The Night Before Joseph Gordon-Levitt.	Law & Order "Church"			The Night Before Joseph Gordon-Levitt.		Law & Order: S.V.U. "Cage"	
57	CNN	(57) Anderson Cooper 360		CNN Tonight With Don Lemon		CNN Tonight With Don Lemon	Anderson Cooper 360			Anderson Cooper 360		CNN Tonight With Don Lemon	
58	FNC	(58) Hannity		The Ingraham Angle		Fox News @ Night	Tucker Carlson Tonight			Hannity		The Ingraham Angle	
61	CNBC	(61) Shark Tank		Job Interview (N)	The Job Interview	Shark Tank	Shark Tank			The Job Interview	The Job Interview	Paid Program	
63	BRV	(63) Wives NJ "Walking on Broken Glass"		Housewives NJ "When Chairs Fly"		Housewives NJ "Meltdown in Milan"	Housewives NJ "Fauxpology" (N)			The Real Housewives of Beverly Hills		WatchWhat	Housewives NJ
64	TCM	(64) Movie	(4:45) The Sign of Zorro (1958, Adventure)			*** Toby Tyler (1960, Drama) Henry Calvin, Kevin Corcoran.				(1:15) Walt Disney "Tricks of Our Trade"		(1:15) Pete's Dragon (77) Sean Marshall.	
65	SYFY	(65) (5:00) *** xXx (2002, Action) Samuel L. Jackson, Vin Diesel.		*** Mad Max: Fury Road (2015, Action) Charlize Theron, Zoe Kravitz, Tom Hardy.						Happy! (N)	(5:00) The Condemned 2 (15, Act) Eric Roberts, Randy Orton.		
162	RFD	(162) Dude Ranch (N)	Cowboy (N)	WesternSport	Equestrian Nation	Total Team Roping	Rural Eve. News	Racer's Edge	Cowboy TV	Dude Ranch	Cowboy Moments	Product Showcase	

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