Vector Documentation

None

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1. Vector Resources

This is a wiki for gathering and sharing information about Anki Vector

PDF version

1.1 Personalizing Vector

This is for notes on how to customize or personalize Vector. You may have to consult the How-To's below.

See also: the forums

1.2 Troubleshooting

- What Do Vector's Back Lights Mean?
- · How to check for software problems
- The big long list of error codes is Appendix D of the Technical Reference Manual, and in TBD

See also the troubleshooting at DDL's site:

- Troubleshooting Vector's Connection
- How Do I Find Vector's Serial Number?
- Why does Vector need a 2.4 GHz network?
- Vector does not understand me: Troubleshooting Speech Recognition
- What Do Vector's Back Lights Mean?
- Why does Vector show an error?
- Troubleshooting charging issues
- Why is there no sound?

1.3 Service Guide

Collected notes on repairing or modifying Vector.

- Assembly and exploded view diagrams. I am a sucker for exploded diagrams and drawings.
- · How to update software
- · How to clean wheels/sensors
- Where to get parts -- treads, etc.
- How to replace the battery?
- Boards?

1.4 How-Tos

These try to tell you how to accomplish particular tasks.

Some highlights:

- Using GDB to trace function calls
- Using AudioKinetic WWise to convert sound files to WEM format
- Dauler sells stickers with the marker symbols prepirnt at (3D Designs by Dauler)[https://designsbydauler.com/collections/vector-robot]

1.5 Developer documentation

These are reference documentation for programming tools to use Vector. Some of them are for the remote-access SDK's.

1.5.1 Technical Reference Manual

- Details on how Vector works
- Main architecture of the design (not necessarily the code though) and how it works
- File system structure, files, formats and contents
- Communication protocols

1.5.2 Programmers Guides and Examples

PC/Mobile SDK (HTTPS API)

- Python Communication SDK: Vector Python SDK
- C# Communication SDK: Anki. Vector. SDK
- C# Anki. Vector. WebVizSDK to access the WebViz related information in developer builds.
- C# Anki.Resources.SDK to access, analyze local (that is, on your computer) copies of the Vectors' application resources/assets
- See the SDK examples

Bluetooth LE implementations. There isnt an SDK for the Bluetooth LE protocol, but there are a few implementations that you might wish to look at/reuse:

- OS-X Objective-C
- linux & C
- Chrome & Javascript and here

1.5.3 WebViz and Console Variables

The developer builds of Vector's softw w

1.5.4 Application Notes

TODO

1.5.5 Vector Enhancement Proposals

These are proposals for changes -- enhancements -- to the modules on Vector.

Some highlights:

- An overview of the overall proposal process.
- VEP1. Update-engine changes
- VEP2. Packagement for modules on Vector

1.6 Historical Bots

This might a place for odds and ends info

- DVT bot info
- Whisky info
- etc

1.7 Stuff to help collaborate

1.7.1 Guidance

These provide tips/suggestions on style, naming. They are related to the "How-to's" but they don't walk you thru to a specific goal. For instance, some might describe how to a do a particular style of design or implement a kind of behavior.

Examples:

- Recommendations for sound event names
- Steps that a design/process can do to meet the spec

Good title:

Bad title:

Writing guide.

- Other writer guides Show how to do something in general, like a tutorial
- Document and show off how you built one of your projects Background: This is a note I made for myself to guide me on the right tone, help with consistency and give me some direction.

1.7.2 Templates

The document-templates folder includes some start files that can be used as templates when creating new documents:

- A template for how to documents
- A generic template for other files

2. Contributing

2.1 Contributing

We want contributing to Project Victor to be fun, enjoyable, and educational for all. We love receiving contributions from our community, all contributions are welcome, including:

- issues (bug reports),
- · new documents
- updates and tweaks,
- blog posts,
- · workshops
- etc

There are many ways to contribute, including submitting bug reports, improving documentation, submitting feature requests, reviewing new submissions, or contributing bits that can be incorporated into the project.

2.1.1 Not sure how to start contributing?

If you are worried or don't know where to start, you can reach out with questions to anyone from the Project Victor team on

- Official Anki developer forums
- · Anki robots Discord chat

2.1.2 Pair programming

Other projects offer free pair programming sessions to the community. I think that might be a neat idea, if there's something others would like to work on together.....

2.1.3 Code of Conduct

By participating in this project, you agree to abide by our Code of Conduct. We expect all contributors to follow the Code of Conduct and to treat fellow humans with respect.

2.1.4 Important Resources

The important documents and links are on the front page of the wiki.

2.1.5 Improving Documentation

If you have a suggestion for the documentation, I would recommend that you take a stab at making the chaages to the documentatin.

For large fixes, please build and test the documentation before submitting the pull-request to be sure you haven't accidentally introduced any layout or formatting issues.

Provide instructions on building and viewing documentation

2.1.6 Contributing Code

This section is used to get new contributors up and running with dependencies, development, testing, style rules, formatting rules, and other things they should know.

If you have a label for beginner issues, talk about that here so they know where to look:

Unsure where to begin contributing to Atom? You can start by looking through these beginner and help-wanted issues: Beginner issues - issues which should only require a few lines of code, and a test or two. Help wanted issues - issues which should be a bit more involved than beginner issues.

Working on your first open source project or pull request? Her are some helpful tutorials:

- How to Contribute to an Open Source Project on GitHub
- Make a Pull Request
- First Timers Only

Getting Started

Install these dependencies:

with some examples

Provide some instructions for your workflow (e.g. fork the repository)

You will need to fork the main repository to work on your changes. Simply navigate to our GitHub page and click the "Fork" button at the top. Once you've forked the repository, you can clone your new repository and start making edits.

In git it is best to isolate each topic or feature into a "topic branch". While individual commits allow you control over how small individual changes are made to the code, branches are a great way to group a set of commits all related to one feature together, or to isolate different efforts when you might be working on multiple topics at the same time.

While it takes some experience to get the right feel about how to break up commits, a topic branch should be limited in scope to a single issue

```
# Checkout the master branch - you want your new branch to come from master
git checkout master

# Create a new branch named newfeature (give your branch its own simple informative name)
git branch newfeature

# Switch to your new branch
git checkout newfeature
```

For more information on the GitHub fork and pull-request processes, please see this helpful guide.

Finding an Issue

The list of outstanding feature requests and bugs can be found on our on our GitHub issue tracker. Pick an unassigned issue that you think you can accomplish and add a comment that you are attempting to do it.

Provide notes on different kinds of issues or labels

starter labeled issues are deemed to be good low-hanging fruit for newcomers to the project help-wanted labeled issues may be more difficult than starter and may include new feature development doc labeled issues must only touch content in the docs folder.

Style Guidelines

If your code has any style guidelines, add them here or provide links to relevant documents. If you have an automated checker, make sure to provide instructions on how to run it.

Whitespace Cleanup

Don't mix code changes with whitespace cleanup! If you are fixing whitespace, include those changes separately from your code changes. If your request is unreadable due to whitespace changes, it will be rejected.

Please submit whitespace cleanups in a separate pull request.

2.1.7 Pull Request Process

Do you have any labelling conventions?

Add notes for pushing your branch:

When you are ready to generate a pull request, either for preliminary review, or for consideration of merging into the project you must first push your local topic branch back up to GitHub:

```
git push origin newfeature
```

Include a note about submitting the PR:

Once you've committed and pushed all of your changes to GitHub, go to the page for your fork on GitHub, select your development branch, and click the pull request button. If you need to make any adjustments to your pull request, just push the updates to your branch. Your pull request will automatically track the changes on your development branch and update.

- 1. Ensure any install or build dependencies are removed before the end of the layer when doing a build.
- 2. You may merge the Pull Request in once you have the sign-off of two other developers, or if you do not have permission to do that, you may request the second reviewer to merge it for you.

Review Process

The process is likely to be lite for many changes.

Many pull requests are likely to open for several days, until the core team can apporve them in Github. In some cases, multiple people will have the chance to review/comment.

Addressing Feedback

Once a PR has been submitted, your changes will be reviewed and constructive feedback may be provided. Feedback isn't meant as an attack, but to help make sure the highest-quality code makes it into our project. Changes will be approved once required feedback has been addressed.

If a maintainer asks you to "rebase" your PR, they're saying that a lot of files has changed, and that you need to update your fork so it's easier to merge.

To update your forked repository, follow these steps:

```
# Fetch upstream master and merge with your repo's master branch
git fetch upstream
git checkout master
git merge upstream/master
# If there were any new commits, rebase your development branch
git checkout newfeature
git rebase master
```

If too much code has changed for git to automatically apply your branches changes to the new master, you will need to manually resolve the merge conflicts yourself.

Once your new branch has no conflicts and works correctly, you can override your old branch using this command:

```
git push -f
```

Note that this will overwrite the old branch on the server, so make sure you are happy with your changes first!

2.1.8 How people can contribute

- You can help us answer questions our users have
- You can help build and design our website
- You can help clean up our existing documentation, polishing it and so on
- You can help create new documentation

• Create an example of some changes / fixes/ hacks

2.2 Contributor Covenant Code of Conduct

2.2.1 Our Pledge

We as members, contributors, and leaders pledge to make participation in our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, religion, or sexual identity and orientation.

We pledge to act and interact in ways that contribute to an open, welcoming, diverse, inclusive, and healthy community.

2.2.2 Our Standards

Examples of behavior that contributes to a positive environment for our community include:

- · Demonstrating empathy and kindness toward other people
- · Being respectful of differing opinions, viewpoints, and experiences
- Giving and gracefully accepting constructive feedback
- · Accepting responsibility and apologizing to those affected by our mistakes, and learning from the experience
- Focusing on what is best not just for us as individuals, but for the overall community

Examples of unacceptable behavior include:

- The use of sexualized language or imagery, and sexual attention or advances of any kind
- Trolling, insulting or derogatory comments, and personal or political attacks
- · Public or private harassment
- · Publishing others' private information, such as a physical or email address, without their explicit permission
- Other conduct which could reasonably be considered inappropriate in a professional setting

2.2.3 Enforcement Responsibilities

Community leaders are responsible for clarifying and enforcing our standards of acceptable behavior and will take appropriate and fair corrective action in response to any behavior that they deem inappropriate, threatening, offensive, or harmful.

Community leaders have the right and responsibility to remove, edit, or reject comments, commits, code, wiki edits, issues, and other contributions that are not aligned to this Code of Conduct, and will communicate reasons for moderation decisions when appropriate.

2.2.4 Scope

This Code of Conduct applies within all community spaces, and also applies when an individual is officially representing the community in public spaces. Examples of representing our community include using an official e-mail address, posting via an official social media account, or acting as an appointed representative at an online or offline event.

2.2.5 Enforcement

Instances of abusive, harassing, or otherwise unacceptable behavior may be reported to the community leaders responsible for enforcement at [INSERT CONTACT METHOD]. All complaints will be reviewed and investigated promptly and fairly.

All community leaders are obligated to respect the privacy and security of the reporter of any incident.

2.2.6 Enforcement Guidelines

Community leaders will follow these Community Impact Guidelines in determining the consequences for any action they deem in violation of this Code of Conduct:

1. Correction

Community Impact: Use of inappropriate language or other behavior deemed unprofessional or unwelcome in the community.

Consequence: A private, written warning from community leaders, providing clarity around the nature of the violation and an explanation of why the behavior was inappropriate. A public apology may be requested.

2. Warning

Community Impact: A violation through a single incident or series of actions.

Consequence: A warning with consequences for continued behavior. No interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, for a specified period of time. This includes avoiding interactions in community spaces as well as external channels like social media. Violating these terms may lead to a temporary or permanent ban.

3. Temporary Ban

Community Impact: A serious violation of community standards, including sustained inappropriate behavior.

Consequence: A temporary ban from any sort of interaction or public communication with the community for a specified period of time. No public or private interaction with the people involved, including unsolicited interaction with those enforcing the Code of Conduct, is allowed during this period. Violating these terms may lead to a permanent ban.

4. Permanent Ban

Community Impact: Demonstrating a pattern of violation of community standards, including sustained inappropriate behavior, harassment of an individual, or aggression toward or disparagement of classes of individuals.

Consequence: A permanent ban from any sort of public interaction within the community.

2.2.7 Attribution

This Code of Conduct is adapted from the Contributor Covenant, version 2.0, available at https://www.contributor-covenant.org/version/2/0/code of conduct.html.

Community Impact Guidelines were inspired by Mozilla's code of conduct enforcement ladder.

For answers to common questions about this code of conduct, see the FAQ at https://www.contributor-covenant.org/faq. Translations are available at https://www.contributor-covenant.org/faq. Translations.

3. Customization

3.1 Customization

This is for notes on how to customize or personalize Vector.

See also: the forums

It might be thru configuring the software and files:

- Sounds
- Body movements
- Eyes
- Colors?
- PNGs on face
- · Backpack lights
- Cube lights
- Other custom animations

Or it might be physical changes, and tweaks that are distinctive and identify

.. Link to a showcase ..?

3.1.1 Customizing animations

- · animation of eyes
- body movements
- boot animation

People would love tools to gen the animation file... but I suspect that may be hard. The presentations made it sound like it was a lot of Maya rigging and plugins for the export.. but since Maya is expensive, and hard..

Maybe a Unity model tool could be made with a rigged model of Vector? and such for I suspect the value vs effort isn't there for such a specialized area, but who knows?

Tools for generating animation files.

What about mixing-matching existing animations, and adjusting them slightly?

3.1.2 Sounds

3.1.3 Behavior tree crafting

3.1.4 Body modifications

- Ikkez sells cute ears, deedly-boppers at his Etsy site
- Dauler sells ear, homs, treads, stickers, and other fanciful mods, and 3D STL's at 3D Designs by Dauler and Etsy

3.2 Nose Art Showcase

4. Document templates

4.1 VEP Template

```
title: VEP123 - The name of the VEP (only a few words)
summary: An optional description of the proposal, if the title is too short
authors:
- Author Name
date: 2022-07-10
```

(remove the quotes; they are so that the template is readable)

4.1.1 Description of the changes

Motivation: A synopsis of why this should be done -- we don't want complicated goo-gaws for the sake of it.

4.1.2 Some Design decisions

Optional

4.1.3 Documentation

The documentation (if short) or where can the documentation be found

4.1.4 Cavaets

List any limits / warnings about this

4.1.5 Status

Has it been tried? How much? Where?

4.1.6 References

4.1.7 Change history synopsis

Summary of changes to help the reader

4.2 How-to template

{Choose a good title name for the file. It should lead with what it noun or action is, and follow the pattern of other documents in this section}

4.2.1 References and Resources

Optional Include some some links to other resources here.

4.3 Template

{Choose a good title name for the file. It should lead with what it noun or action is, and follow the pattern of other documents in this section}

4.3.1 References and Resources

Optional Include some some links to other resources here.

5. How to

5.1 How to trace calls using GDB

Vector's command line tools do not include a ptrace (as far as I can see). This can be emulated with GDB. Here is an example tracing a write() call.

- 1. Start gdb and attach to the process of interest.
- 2. Add the following scripted breakpoints:

```
break write

command

silent

printf "%d bytes\n", $r2

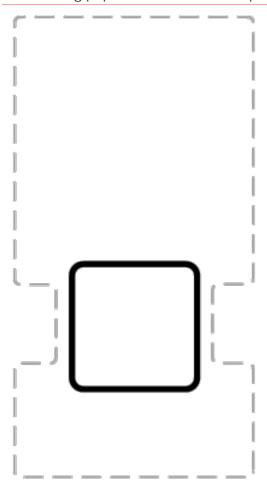
x/80c $r1

continue

end
```

set pagination off

5.2 Making paper dolls for Vector to play with



5.2.1 Laser Printer Version

- 1. Download one of the two version of the pattern template:
 - Without the symbols: PDF or Visio
 - One includes little symbols on them
 - The other doesn't (You can add the pictures using stickers)
- 2. Make any changes, like adding color patters (Optional)
- 3. Print. If you're like me, the printer doesn't like card stock
- 4. Cut out
- 5. Use a glue, like a spray glue, to attach to cardstock
- 6. Cut that.
- 7. Color it in (Optional)
- 8. Add little tails so it will stay upright

5.2.2 Cricut Version

- 1. Download one of the two version of the pattern template:
 - Without the symbols: PDF or Visio
 - One includes little symbols on them
 - The other doesn't (You can add the pictures using stickers)
 - One has the cut pattern
 - Two have the print patterns. Pick one.
- 2. Make any changes, like adding color patters (Optional)
- 3. Use Cricut, print-then-cut mode
 - Print
 - Cut out
 - Cut out card stock
- 4. Print on cardstock? If you're like me, the printer doesn't like card stock
- 5. Use a glue, like a spray glue, to attach to cardstock
- 6. Color it in (Optional)
- 7. Add little tails so it will stay upright

5.3 Using AudioKinetic WWise to convert the sound files to WEM

This is not an easy tool to use, or export from. First download and install AudioKinetic WWise.

5.3.1 Importing

- 1. Project>Import Audio files [image]
- 2. Click "Add Files" button
- 3. Select files
- 4. Click "Open"
- 5. Click "Import"

5.3.2 Settings.

How to get setting.

- 1. I went to search, typed name
- 2. On the popup of the files, Right Click
- 3. Select "Edit"
- 4. Click "Conversion" tab
- 5. Click "Edit" button
- 6. Scrolled until the Format is visible
- 7. Change this to "Vorbis" {The other items may warrant tweeking, but I don't know about them yet.}

5.3.3 Converting and exporting

- 1. Project >> Convert All Audio Files
- 2. Click "Ok"
- 3. Todo: steps to find the WEM files
- 4. Todo: steps to replace the one on vector

5.3.4 Issues

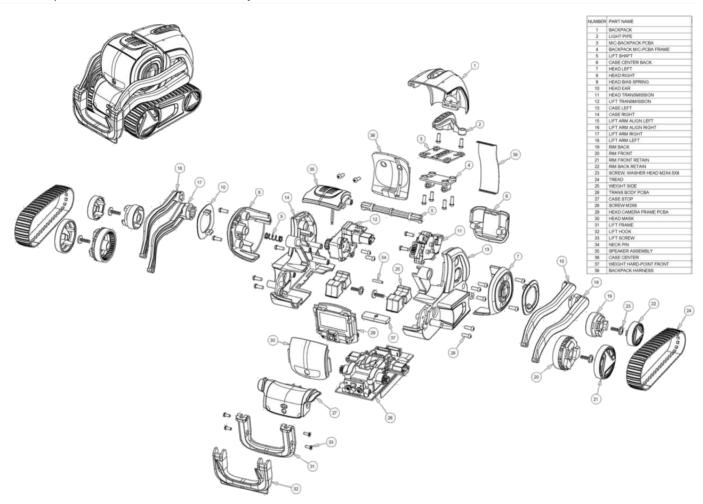
The soundbank may be too large.

- WWise, free version, has a cap of 200 audio files max
- Break the soundbanks up so that people can modify the free tools
- The tool is hard to use.

6. Service

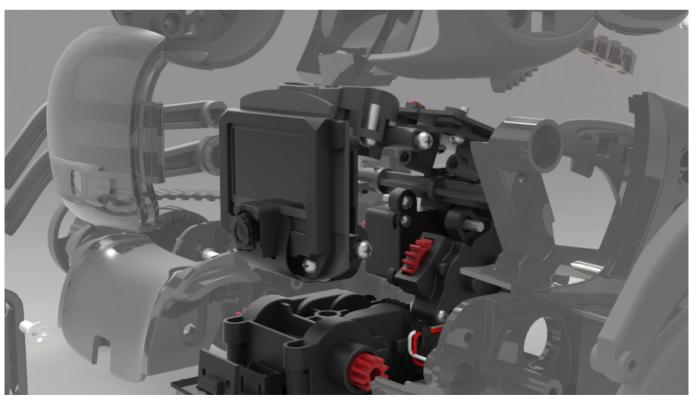
6.1 Exploded View

6.1.1 Exploded Views of Vector's assembly

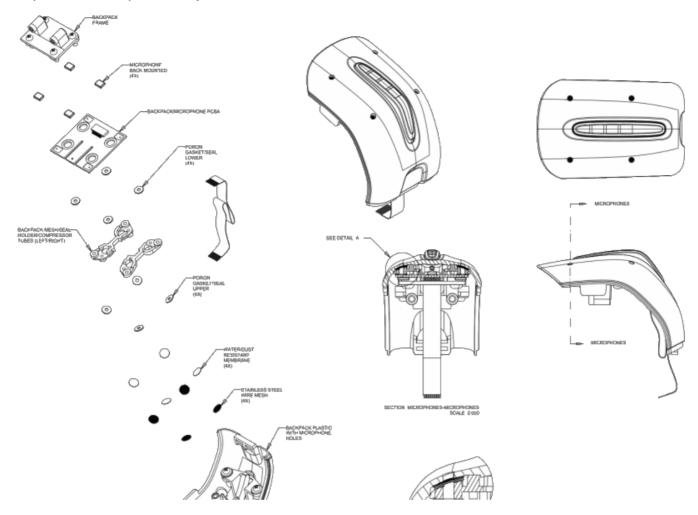




Zoom in on the exploded view of head



An exploded view of backpack assembly



6.2 Parts kits

- Replacement Parts: Wheel hubs, wheels, treads, lift arms, body boards, back pack boards, ears, gears, etc.
- Dauler sells treads at 3D Designs by Dauler

Replacement boards

- Body boards
- Time of flight boards
- LCD module
- Motor encoder
- Backpack boards

Modifying board firmware:

• Mechanism to sign new body board FW?

6.2.1 Playpen

Method to recalibrate bots at home? - Body board FW with playpen/factory interface?

(Is that even practical?)

7. Software design

7.1 Animation Triggers

Trigger Name	Description
AlexaError2Idle	
AlexaErrorLoop	
AlexaErrorLoop	
AlexaIdle2Listen	
AlexaIdle2Speak	
AlexaListen2Error	
AlexaListen2Idle	
AlexaListen2Speak	
AlexaListen2Think	
AlexaListenLoop	
AlexaNotification	
AlexaSignOut	
AlexaSpeak2Error	
AlexaSpeak2Idle	
AlexaSpeak2Listen	
AlexaSpeakLoop	
AlexaThink2Error	
AlexaThink2Idle	
AlexaThink2Speak	
AlexaThinkLoop	
AlreadyAtFace	
AudioOnlyHuh	
BlackJack_Deal	
BlackJack_GetIn	
BlackJack_GoodLuck	
BlackJack_Idle	
BlackJack_Quit	
BlackJack_Response	
BlackJack_RtpIdle	
BlackJack_RtpPlayerNo	
BlackJack_RtpPlayerYes	
BlackJack_RtpRequest	
BlackJack_RtpTimeOut	
BlackJack_SpeechGetIn	
BlackJack_SpeechShortStatement	

Trigger Name Description
BlackJack_Spread
BlackJack_Swipe
BlackJack_VictorBlackJackLose
BlackJack_VictorBlackJackWin
BlackJack_VictorBust
BlackJack_VictorLose
BlackJack_VictorPush
BlackJack_VictorWin
BumpObjectFastGetIn
BumpObjectFastGetOut
BumpObjectFastLoop
BumpObjectSlowGetIn
BumpObjectSlowGetOut
BumpObjectSlowLoop
Carrying
ChargerDockingAlreadyHere
ChargerDockingDrivingEnd
ChargerDockingDrivingLoop
ChargerDockingDrivingStart
ChargerDockingFailure
ChargerDockingLeftTurn
ChargerDockingRaiseLift
ChargerDockingRequest
ChargerDockingRequestGetout
ChargerDockingRequestPickup
ChargerDockingRequestWaitLoop
ChargerDockingRightTurn
Charger Docking Search After Completed Search
ChargerDockingSearchSingleTurn
ChargerDockingSearchSingleTurnEnd
Charger Docking Search Wait For Images
ChargerDockingSettle
ChargerDockingSevereRequest
ChargerDockingSevereRequestGetout
ChargerDockingSorryButLowBattery

Trigger Name	Description
ChargerReaction	Description
ChargerReaction	
ChargerReaction	
ClockGetIn	
ClockGetOut	
ComeHereStart	
ComeHereSuccess	
ConnectToCubeFailure	
ConnectToCubeGetIn	
ConnectToCubeLoop	
ConnectToCubeLostConnection	
ConnectToCubeSuccess	
ConnectWakeUp	
ConnectWakeUpLights	
Connected	
CountingFastLoop	
CountingGetInEven	
CountingGetInOdd	
CountingGetOut	
CountingSlowLoop	
CubePounceBackup	
CubePounceDriveGetIn	
CubePounceDriveGetOut	
CubePounceDriveLoop	
CubePounceFake	
CubePounceGetIn	
CubePounceGetOutBored	
CubePounceGetReady	
CubePounceGetUnready	
CubePounceIdleLiftDown	
CubePounceIdleLiftUp	
CubePounceLoseHand	
CubePounceLoseSession	
CubePouncePlayerLose	
CubePouncePlayerWin	

Trigger Name Description
CubePouncePounceClose
CubePouncePounceNormal
CubePounceReactToCube
CubePounceWinHand
CubePounceWinSession
DEPRECATED_AcknowledgeFaceNamed
DEPRECATED_AcknowledgeFaceUnnamed
DEPRECATED_AcknowledgeObject
DEPRECATED_ComeHere_SearchForFace
DEPRECATED_CubeMovedSense
DEPRECATED_CubeMovedUpset
DEPRECATED_DizzyReactionHard
DEPRECATED_DizzyReactionMedium
DEPRECATED_DizzyReactionSoft
DEPRECATED_DizzyShakeLoop
DEPRECATED_DizzyShakeStop
DEPRECATED_DizzyStillPickedUp
DEPRECATED_LaserAcknowledge
DEPRECATED_LaserDriveEnd
DEPRECATED_LaserDriveLoop
DEPRECATED_LaserDriveStart
DEPRECATED_LaserGetOut
DEPRECATED_LaserPounce
DEPRECATED_LookDownForLaser
DEPRECATED_NamedFaceInitialGreeting
DEPRECATED_SearchForFace_FoundFace
DEPRECATED_SearchForFace_Search
DEPRECATED_StackBlocksSuccess
DanceBeatCantDoThat
DanceBeatEyeHold
DanceBeatGetIn
DanceBeatGetOut
DanceBeatGetReady
DanceBeatListening
DanceBeatNoBeatDetected

Trigger Name Description
DanceToTheBeat
DealerCardLayout
DockEndDefault
DockLoopDefault
DockStartDefault
DriveEndAngry
DriveEndDefault
DriveEndHappy
DriveEndLaunch
DriveLoopAngry
DriveLoopDefault
DriveLoopHappy
DriveLoopLaunch
DriveOffChargerFarLeft
DriveOffChargerFarRight
DriveOffChargerLeft
DriveOffChargerRight
DriveOffChargerStraight
DriveStartAngry
DriveStartDefault
DriveStartHappy
DriveStartLaunch
DrivingTo
ExploringHuhClose
ExploringHuhFar
ExploringLookAround
ExploringLookAtHuman
ExploringQuickScan
ExploringReactToHandDrive
ExploringReactToHandGetIn
ExploringReactToHandGetOut
ExploringReactToHandLift
ExploringReactToHandReaction
ExploringScanCenterFromLeft
ExploringScanCenterFromRight

Trigger Name	Description
ExploringScanToLeft	
ExploringScanToRight	
EyeColorGetIn	
EyeColorGetOut	
EyeColorIdle	
EyeColorSwitch	
EyeContactLookLoop	
FacePlantRoll	
FacePlantRollArmUp	
FailedToRightFromFace	
Feedback_Apology	
Feedback_BadRobot	
Feedback_BeQuiet	
Feedback_GoodRobot	
Feedback_ILoveYou	
Feedback_MeanWords	
Feedback_ShutUp	
FetchCubeFailure	
FetchCubeSetDown	
FetchCubeSuccess	
FindCubeReactToCube	
FindCubeTurns	
FindCubeWaitLoop	
FistBumpIdle	
FistBumpLeftHanging	
FistBumpRequestOnce	
FistBumpRequestRetry	
FistBumpSuccess	
Flash	
FlipDownFromBack	
FoundFace	
FrustratedByFailureMajor	
GatherCubesAllCubesInBeacon	
GatherCubesCubeInBeacon	
GazingLookAtFacesGetInLeft	

GazingLookAtFacesGetInRight GazingLookAtFacesTurnLeft GazingLookAtFacesTurnRight GazingLookAtSurfaceReaction GazingLookAtSurfaceTurnLeft GazingLookAtSurfacesGetInLeft GazingLookAtSurfacesGetInRight
GazingLookAtFacesTurnRight GazingLookAtSurfaceReaction GazingLookAtSurfaceTurnLeft GazingLookAtSurfacesGetInLeft
GazingLookAtSurfaceReaction GazingLookAtSurfaceTurnLeft GazingLookAtSurfacesGetInLeft
GazingLookAtSurfaceTurnLeft GazingLookAtSurfacesGetInLeft
GazingLookAtSurfacesGetInLeft
GazingLookAtSurfacesGetInRight
GazingLookAtSurfacesTumRight
GazingLookAtVectorReaction
GoToSleepGetIn
GoToSleepOff
GoToSleepSleeping
GreetAfterLongTime
HeldOnPalmEdgeNervous
HeldOnPalmEdgeRelaxed
HeldOnPalmGetInNervous
HeldOnPalmGetInRelaxed
HeldOnPalmLookingNervous
HeldOnPalmNestling
HeldOnPalmPickupNervous
HeldOnPalmPickupRelaxed
HeldOnPalmPutDownNervous
HeldOnPalmPutDownRelaxed
HeldOnPalmReactToJolt
HeldOnPalmRollOff
Held On Palm Transition To Relaxed
HighTemperatureWarningFace
ICantDoThat
Idle_09
InitialWakeUp
InteractWithFaceTrackingIdle
InteractWithFacesInitialNamed
Interact With Faces Initial Unnamed
Interacting

Trigger Name Description
InvalidAnimTrigger
InvestigateHeldCubeGetIn
InvestigateHeldCubeGetOutBored
InvestigateHeldCubeGetOutCubeLost
InvestigateHeldCubeOnSetDown
InvestigateHeldCubeTrackingLoop
KnowledgeGraphAnswer
KnowledgeGraphGetIn
KnowledgeGraphGetOut
KnowledgeGraphListening
KnowledgeGraphSearching
KnowledgeGraphSearchingFail
KnowledgeGraphSearchingFailGetOut
KnowledgeGraphSearchingGetIn
KnowledgeGraphSearchingGetOutSuccess
KnowledgeGraphSuccessReaction
LookAround
LookAtDevice
LookAtDeviceGetIn
LookAtDeviceGetOut
LookAtUserEndearingly
LookInPlaceForFacesBodyPause
LookInPlaceForFacesBodyPause_Active
LookInPlaceForFacesHeadMovePause
LowBattery
MeetVictor
MeetVictorConfusion
MeetVictorDuplicateName
MeetVictorGetIn
MeetVictorLookFace
MeetVictorLookFaceInterrupt
MeetVictorSawWrongFace
MeetVictorSayName
MeetVictorSayNameAgain
MessagingMessageDeletedShort

Trigger Name	Description
MessagingMessageGetIn	
MessagingMessageGetOut	
MessagingMessageLoop	
MessagingMessageRecordReaction	
MessagingMessageRewind	
MovementDriveBackward	
MovementDriveForward	
MovementTurnAround	
MovementTurnLeft	
MovementTurnRight	
Muted	
NeutralFace	
NoCloudGetIn	
NoCloudIcon	
NoWifiGetIn	
NoWifilcon	
NoWifiSearching	
NothingToDoBoredIdle	
ObservingIdleEyesOnly	
Observing Idle With Head Looking Straight	
Observing Idle With Head Looking Up	
ObservingLookStraight	
ObservingLookUp	
ObservingOnCharger	
ObservingOnChargerGetIn	
ObservingOnChargerGetOut	
Off	
Offline	
Offline_Off	
Onboarding	
OnboardingComeHere	
OnboardingComeHereGetOut	
OnboardingCubeDriveGetIn	
OnboardingCubeDriveGetOut	
OnboardingCubeDriveLoop	

Trigger Name	Description
OnboardingCubeHuh	
OnboardingDriveOffCharger	
OnboardingDriveOffCharger_1p0	
OnboardingListenGetIn	
OnboardingListenGetOut	
OnboardingLookAround	
OnboardingLookAtPhoneDown	
OnboardingLookAtPhoneLoop	
OnboardingLookAtPhoneUp	
OnboardingLookAtUser	
OnboardingLookAtUserGetOut_1p0	
OnboardingLookDown	
OnboardingLookForCube	
OnboardingReactToFaceHappy	
OnboardingWakeUp	
Onboarding WakeWordGetIn	
Onboarding Wake Word Success	
PRDemoGreeting	
PettingBlissGetout	
PettingBlissLoop	
PettingLevel 1	
PettingLevel1Getout	
PettingLevel2	
PettingLevel2Getout	
PettingLevel3	
PettingLevel3Getout	
PettingLevel4	
PettingLevel4Getout	
PickupCubePreperation	
PickupCubeRetry	
PickupCubeSuccess	
PlaceCubeByChargerFail	
PlaceCubeByChargerReactToCharger	
PlaceCubeByChargerSuccess	
PlanningGetIn	

Trigger Name Description	
PlanningGetOut	
PlanningLoop	
PlayerCardLayout	
PokeObjectDriveLoop	
PokeObjectGetIn	
PokeObjectGetOut	
PopAWheelieInitial	
PopAWheeliePreActionNamedFace	
PopAWheeliePreActionUnnamedFace	
PopAWheelieRealign	
PopAWheelieRetry	
PounceFail	
PounceSuccess	
PounceWProxForward	
PutDownBlockKeepAlive	
PutDownBlockPutDown	
RTS_OffCharger_Awake_120Left	
RTS_OffCharger_Awake_120Right	
RTS_OffCharger_Awake_150Left	
RTS_OffCharger_Awake_150Right	
RTS_OffCharger_Awake_30Left	
RTS_OffCharger_Awake_30Right	
RTS_OffCharger_Awake_60Left	
RTS_OffCharger_Awake_60Right	
RTS_OffCharger_Awake_Ambient	
RTS_OffCharger_Awake_Back	
RTS_OffCharger_Awake_Front	
RTS_OffCharger_Awake_Left	
RTS_OffCharger_Awake_Right	
RTS_OffCharger_Sleep_120Left	
RTS_OffCharger_Sleep_120Right	
RTS_OffCharger_Sleep_150Left	
RTS_OffCharger_Sleep_150Right	
RTS_OffCharger_Sleep_30Left	
RTS_OffCharger_Sleep_30Right	

RTS_OffCharger_Sleep_60Left
RTS_OffCharger_Sleep_60Right
RTS_OffCharger_Sleep_Ambient
RTS_OffCharger_Sleep_Back
RTS_OffCharger_Sleep_Front
RTS_OffCharger_Sleep_Left
RTS_OffCharger_Sleep_Right
RTS_OnCharger_Awake_120Left
RTS_OnCharger_Awake_120Right
RTS_OnCharger_Awake_150Left
RTS_OnCharger_Awake_150Right
RTS_OnCharger_Awake_30Left
RTS_OnCharger_Awake_30Right
RTS_OnCharger_Awake_60Left
RTS_OnCharger_Awake_60Right
RTS_OnCharger_Awake_Ambient
RTS_OnCharger_Awake_Back
RTS_OnCharger_Awake_Front
RTS_OnCharger_Awake_Left
RTS_OnCharger_Awake_Right
RTS_OnCharger_Sleep_120Left
RTS_OnCharger_Sleep_120Right
RTS_OnCharger_Sleep_150Left
RTS_OnCharger_Sleep_150Right
RTS_OnCharger_Sleep_30Left
RTS_OnCharger_Sleep_30Right
RTS_OnCharger_Sleep_60Left
RTS_OnCharger_Sleep_60Right
RTS_OnCharger_Sleep_Ambient
RTS_OnCharger_Sleep_Back
RTS_OnCharger_Sleep_Front
RTS_OnCharger_Sleep_Left
RTS_OnCharger_Sleep_Right
RTS_OnCharger_Sleep_Right ReactToCliff

Trigger Name	Description
React ToCliffBackLeft	
ReactToCliffBackRight	
ReactToCliffFront	
ReactToCliffFrontLeft	
ReactToCliffFrontRight	
ReactToCliffTurnLeft120	
ReactToCliffTurnLeft180	
ReactToCliffTurnLeft60	
ReactToCliffTurnRight120	
ReactToCliffTurnRight180	
ReactToCliffTurnRight60	
ReactToCubeSearchForCubeLvl1	
ReactToCubeSearchForCubeLvl2	
ReactToCubeSearchForCubeLvl3	
ReactToCubeTapCubeFound	
ReactToCubeTapCubeNotFound	
ReactToCubeTapCubeTappedLvl1	
ReactToCubeTapCubeTappedLvl2	
ReactToCubeTapCubeTappedLv13	
ReactToCubeTapInteractionGetOut	
ReactToCubeTapInteractionLoop	
ReactToDarkness	
ReactToGoodBye	
ReactToGoodMorning	
ReactToGoodNight	
ReactToGreeting	
ReactToHabitat	
ReactToMotionLeft	
ReactToMotionLeftGetout	
ReactToMotionRight	
ReactToMotionRightGetout	
ReactToMotionTurnLeft	
ReactToMotionTurnRight	
ReactToMotionTurnUp	
ReactToMotionUp	

Trigger Name Description	
ReactToMotionUpGetout	
ReactToObstacle	
ReactToOnLeftSideGetIn	
ReactToOnLeftSideLoop	
ReactToOnRightSideGetIn	
ReactToOnRightSideLoop	
ReactToOnSideEffort	
ReactToOnSideGetOut	
ReactToPerchedOnBlock	
ReactToPickupInitial	
ReactToPickupLoop	
ReactToPutDown	
ReactToShakeSnowGlobe_GetIn	
ReactToShakeSnowGlobe_Lvl11nHand	
ReactToShakeSnowGlobe_Lvl11Loop	
ReactToShakeSnowGlobe_Lvl1OnGround	
ReactToShakeSnowGlobe_Lvl1Waiting	
ReactToShake_GetIn	
ReactToShake_Lv11InHand	
ReactToShake_Lv11Loop	
ReactToShake_Lv11OnGround	
ReactToShake_Lv11Waiting	
ReactToShake_Lv12InHand	
ReactToShake_Lv12Loop	
ReactToShake_Lvl2OnGround	
ReactToShake_Lv12Waiting	
ReactToShake_Lv13InHand	
ReactToShake_Lvl3Loop	
ReactToShake_Lvl3OnGround	
ReactToShake_Lv13Waiting	
ReactToTouchInitial	
React To Trigger Word Off Charger Behind	
React To Trigger Word Off Charger Behind Left	
React To Trigger Word Off Charger Behind Right	

Trigger Name Description	
ReactToTriggerWordOffChargerFrontRight	
ReactToTriggerWordOffChargerLeft	
ReactToTriggerWordOffChargerRight	
ReactToUnclaimedIntent	
ReactToUnclaimedIntentInAir	
ReactToUnexpectedMovement	
RollBlockRealign	
RollBlockRetry	
RollBlockSuccess	
SeasonalHappyHolidays	
SeasonalHappyNewYear	
ShutDown	
Sleep	
SleepNoFade	
SoundOnlyLiftEffortPickup	
SoundOnlyLiftEffortPlaceHigh	
SoundOnlyLiftEffortPlaceLow	
SoundOnlyLiftEffortPlaceRoll	
SpeedTapLose	
SpeedTapWin	
SpinnerBlueCelebration	
SpinnerBlueCycle	
SpinnerBlueHoldTarget	
SpinnerBlueLockIn	
SpinnerBlueLocked	
SpinnerBlueLockedPulse	
SpinnerBlueSelectTarget	
SpinnerGreenCelebration	
SpinnerGreenCycle	
SpinnerGreenHoldTarget	
SpinnerGreenLockIn	
SpinnerGreenLocked	
SpinnerGreenLockedPulse	
SpinnerGreenSelectTarget	
SpinnerPlayerError	

Trigger Name	Description
SpinnerPurpleCelebration	
SpinnerPurpleCycle	
SpinnerPurpleHoldTarget	
SpinnerPurpleLockIn	
SpinnerPurpleLocked	
SpinnerPurpleLockedPulse	
SpinnerPurpleSelectTarget	
SpinnerRedCelebration	
SpinnerRedCycle	
SpinnerRedHoldTarget	
SpinnerRedLockIn	
SpinnerRedLocked	
SpinnerRedLockedPulse	
SpinnerRedSelectTarget	
SpinnerStartGame	
SpinnerYellowCelebration	
SpinnerYellowCycle	
SpinnerYellowHoldTarget	
SpinnerYellowLockIn	
SpinnerYellowLocked	
SpinnerYellowLockedPulse	
SpinnerYellowSelectTarget	
Streaming	
StuckOnEdgeGetIn	
StuckOnEdgeIdle	
StuckOnEdgeLeftGetIn	
StuckOnEdgeLeftIdle	
StuckOnEdgeRightGetIn	
StuckOnEdgeRightIdle	
SuccessfulWheelie	
TakeAPictureCapture	
TakeAPictureFocusing	
TapResponsePulse	
TemperatureDoubleDig	
TemperatureNegDoubleDig	

Trigger Name	Description
TemperatureNegSingleDig	
TemperatureNegTripleDig	
TemperatureSingleDig	
TemperatureTripleDig	
TestAllLeds	
TestOffset	
TestRotation	
TextToSpeechGetIn	
TextToSpeechGetLoop	
TextToSpeechGetOut	
TimerCancelGetIn	
TimerCancelTimer	
TimerCheckTimeGetIn	
TimerCheckTimeGetOut	
TimerRing	
TimerRingGetIn	
TimerRingGetOut	
TimerSetGetIn	
TimerSetGetOut	
UnitTestAnim	
VC_IntentNeutral	
VC_ListeningGetIn	
VC_ListeningGetOut	
VC_ListeningLoop	
VC_SleepingToListeningGetIn	
VC_SleepingToListeningGetOut	
VC_SleepingToListeningLoop	
Visible	
VolumeLevel1	
VolumeLevel2	
VolumeLevel3	
VolumeLevel4	
VolumeLevel5	
WakeUp	
WakeupGetout	

Trigger Name	Description
WeatherCondCloudy_01	
WeatherCondColdClear_01	
WeatherCondRain_01	
WeatherCondSnow_01	
WeatherCondStars_01	
WeatherCondSunny_01	
WeatherCondThunderstorms_01	
WeatherCondWindy_01	

7.2 Behaviour IDs

Behavior ID	Description
AcousticTestMode	
Alexa	
AlexaSignInOut	
AskForHelp	
AskForHelpOnSide	
Asleep	
BasicVoiceCommands	
BeQuietAnims	
BeQuietLoop	
BlackJack	
BlackJackGoodLuckTTS	
BlackJackHandleRTPResponses	
BlackJackHitOrStandPrompt	
BlackJackLookAtFaceInFront	
BlackJackRequestToPlay	
BlackJackRequestToPlayAgain	
BlackJackTextToSpeech	
BlackJackVoiceCommand	
CheckForAndReactToHand	
CubeTrickDispatcher	
DemoTimerUtilityCoordinator	
DevBaseBehavior	
DevImageCapture	
DevBatteryLogging	
DevCubeSpinner	
DevCubeSpinnerConsole	
DevDesignCubeLights	
DevDisplayReadingsOnFace	
DevEventSequenceCapture	
DevImageCapture_PetsAndHands	
DevPlannerTest	
DevSquawkBoxTest	
DevTestBlackjackViz	
DoATrickVoiceCommand	
FetchCubeVoiceCommand	

Behavior ID	Description
FindFacesPhoto	
FindYourCubeVoiceCommand	
FistBumpVoiceCommand	
FrameFaces	
InterruptingVoiceReactions	
DevTestConnectToCube	
DevTestPersonDetectorBehavior	
DevTestPromptUser	
DevTouchDataCollection	
DevTumInPlaceTest	
DevViewCubeBackpackLights	
DockingTestSimple	
FactoryCentroidExtractor	
ForceStuckOnEdge	
LiftLoadTest	
PlaypenCameraCalibration	
PlaypenDistanceSensor100mm	
PlaypenDistanceSensor300mm	
PlaypenDistanceSensor80mm	
PlaypenDriftCheck	
PlaypenDriveForwards	
PlaypenEndChecks	
PlaypenInitChecks	
PlaypenMotorCalibration	
PlaypenPickupCube	
PlaypenSoundCheck	
PlaypenTest	
PlaypenWaitToStart	
PowerSaveStressTest	
PowerSaveTest	
PuzzleMaze	
ReactToBody	
ReactToGazeDirection	
ReactToGazeDirectionSurface	
SelfTest	

Behavior ID Descr.	iption
SelfTestButton	
SelfTestDockWithCharger	
SelfTestDriftCheck	
SelfTestDriveForwards	
SelfTestInitChecks	
SelfTestLookAtCharger	
SelfTestMotorCalibration	
SelfTestPickup	
SelfTestPutOnCharger	
SelfTestPutOnCharger2	
SelfTestScreenAndBackpack	
SelfTestSoundCheck	
SelfTestTouch	
TestStackMonitors	
ChangeEyeColor	
HowOldAreYou	
HowOldAreYouCounting	
ShowWallTime	
SingletonFindFaceInFrontWallTime	
SingletonWallTimeCoordinator	
ComeHereVoiceCommand	
ConfirmHabitat	
ConnectToCube	
CoordinateGlobalInterrupts	
CoordinateInHabitat	
CoordinateWhileHeldInPalm	
CoordinateWhileInAir	
DanceBig	
DanceForwardBackFlower	
DanceFrontRightLeftPoint	
DanceSTwoways	
DanceSwell	
DanceWiggleForwardWiggleBack	
DanceToTheBeat	
DanceToTheBeatCoordinator	

Behavior ID Description	
DanceToTheBeatVoiceCommand	
ListenForBeats	
ListenForBeatsLong	
ListenForBeatsVoiceCommand	
DefaultTextToSpeechLoop	
DriveOffChargerCube	
DriveOffChargerFace	
DriveOffChargerRandomly	
DriveOffChargerRandomlyAnim	
DriveOffChargerStraight	
EmergencyMode	
EmergencyModeAnimDispatcher	
EmergencyModeInAir	
EmergencyModeOffCharger	
EmergencyModeTriggerWord	
GlobalInterruptions	
GreetAfterLongTime	
HabitatMutedDispatcher	
Habitat Muted Voice Command Response	
HighLevelAI	
ActiveLookForFaces	
ConfirmCharger	
ConfirmCube	
Exploring	
ExploringBumpObject	
ExploringExamineObstacle	
ExploringGetIn	
ExploringReferenceHuman	
ExploringVoiceCommand	
FindCubeAndPlayKeepaway	
FistBump	
AcknowledgeCharger	
ClearChargerArea	
Emergency Mode Find And GoTo Home	
FindAndGoToHome	

Behavior ID	Description
FindAndRequestHome	
FindHome	
FindHomeInHabitat	
GoHome	
RequestHomeBecauseStuck	
RequestToGoHome	
WiggleBackOntoChargerFromPlatform	
HeldInPalmDispatcher	
HeldInPalmResponses	
InitialHeldInPalmReaction	
ReactToJoltInPalm	
ReactToPalmTilt	
React To Pickup From Palm	
ReactToPutDownFromPalm	
InitialPickupAnimation	
InteractWithFaces	
InteractWithStaticCube	
InvestigateCubeConnectionGate	
InvestigateHeldCube	
MoveCube	
PlaceCubeByCharger	
RollBlockIfNotVertical	
TurnToLastFace	
Keepaway	
KnowledgeGraphQuestion	
KnowledgeGraphTTS	
LookInPlaceHeadDownInAir	
LookInPlaceHeadUp	
LookInPlaceHeadUpInAir	
MeetVictor	
Meet Victor Already Know You Prompt	
RespondToRenameFace	
LeaveAMessage	
MessagingPlaybackTTS	
MessagingRecordTTS	

Behavior ID Description
PlaybackMessage
NothingToDo_Idle
Observing
ObservingDriveOffCharger
ObservingEyeContact
ObservingFindFaces
ObservingLookAtFaces
ObservingLookAtFacesInAir
ObservingOffChargerHeadOnly
ObservingOnCharger
ObservingOnChargerEyeContact
ObservingOnChargerGetIn
ObservingOnChargerGetOut
ObservingOnChargerIdle
ObservingOnChargerIdleAnim
ReactToMotion
TrackingEyeContact
PickupCube
PickupCubeNoInitialReaction
CubeSpinnerConnectionGate
CubeSpinnerLookAroundInPlace
VectorPlaysCubeSpinner
FetchCube
FindCube
FindCubeAndThen
FindFacesFetchCube
PlayRollBlock
PlayWithCube
PopAWheelie
SingletonPounceApproachWithProx
SingletonPounceDispatcher
SingletonPounceTurnLeft
SingletonPounceTurnRight
SingletonPounceWithProx
PutDownBlock

PutDownDispatch_LookForFaceAndCube SayName SearchWithinBoundingBox ShortLookAroundForFaceAndCube FindHomeForSleeping GoToSleep SleepCycle SleepingPersonCheck SleepingTinggerWord SleepingWakeUp SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize Socialize Socialize TrackCube TrackCube TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand PickUpCubeVoiceCommand PickUpCubeVoiceCommand PickUpCubeVoiceCommand PopAWheelieVoiceCommand WhatsMyNameVoiceCommand WhileInAirfDispatcher WhileInAirResponses PRDemo InitNormalOperation InitPRDemo IntenUnmatched ModeSelector MovementBackward	Behavior ID	Description
SayName SearchWithinBoundingBox ShortLookAroundForFaceAndCube FindHomeForSleeping GoToSleep SleepCycle SleepingPersonCheck SleepingTriggerWord SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize SocializeGame TrackCube TrackCube TrackCube TrackCubeTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PickUpCubeVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	PutDownBlockAtPose	
SearchWithinBoundingBox ShortLookAroundForFaceAndCube FindHomeForSleeping GoToSleep SleepCycle SleepingPersonCheck SleepingPersonCheck SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize SocializeGame TrackCube TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PrickUpCubeVoiceCommand RollCubeVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhatsMyNameVoiceCommand WhilelnAirDispatcher WhilelnAirResponses WhilelnAirResponses WhilelnAirResponses WhilelnAirResponsesIPDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	PutDownDispatch_LookForFaceAndCube	
ShortLookAroundForFaceAndCube FindHomeForSleeping GoToSleep SleepCycle SleepingPersonCheck SleepingPersonCheck SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize Socialize SocializeGame TrackCube TrackCube TrackCubeTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	SayName	
FindHomeForSleeping GoToSleep SleepCycle SleepingPersonCheck SleepingPersonCheck SleepingWakeUp SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize SocializeGame TrackCube TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	SearchWithinBoundingBox	
SleepCycle SleepingPersonCheck SleepingTriggerWord SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize SocializeGame TrackCube TrackCube Test TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand PickUpCubeVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhitelnAirResponses WhilelnAirResponses WhilelnAirResponses WhilelnAirResponses WhilelnAirResponses WhilelnAirResponses WhilelnAirResponses IntentUnmatched ModeSelector	ShortLookAroundForFaceAndCube	
SleepingPersonCheck SleepingTriggerWord SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize Socialize SocializeGame TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand RollCubeVoiceCommand WhiteInAirDispatcher WhiteInAirResponses WhiteInAirResponsesPRDemo InitNormalOperation IntePRDemo IntentUnmatched ModeSelector	FindHomeForSleeping	
SleepingPersonCheck SleepingTriggerWord SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize Socialize SocializeGame TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	GoToSleep	
SleepingWakeUp SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize SocializeGame TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand WhatsMyNameVoiceCommand WhiteInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitPRDemo InterUnmatched ModeSelector	SleepCycle	
SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize Socialize SocializeGame TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand WhatsMyNameVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	SleepingPersonCheck	
SleepingWakeUpLights DriveOffChargerIntoSocializing Socialize Socialize SocializeGame TrackCube TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	SleepingTriggerWord	
DriveOffChargerIntoSocializing Socialize SocializeGame TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponses WhileInAirResponsesPRDemo InitPRDemo IntertUnmatched ModeSelector	SleepingWakeUp	
Socialize SocializeGame TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponses WhileInAirResponsesPRDemo InitPRDemo IntentUnmatched ModeSelector	SleepingWakeUpLights	
SocializeGame TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhiteInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	DriveOffChargerIntoSocializing	
TrackCube TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PlayAGameVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	Socialize	
TrackCubeTest TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	SocializeGame	
TrackFaceTest GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhiteInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitPRDemo IntentUnmatched ModeSelector	TrackCube	
GoHomeVoiceCommand KeepawayVoiceCommand LookAtMeVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	TrackCubeTest	
Keepaway VoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	TrackFaceTest	
LookOverThereVoiceCommand LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	GoHomeVoiceCommand	
LookOverThereVoiceCommand PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	KeepawayVoiceCommand	
PickUpCubeVoiceCommand PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	LookAtMeVoiceCommand	
PlayAGameVoiceCommand PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	LookOverThereVoiceCommand	
PopAWheelieVoiceCommand RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	PickUpCubeVoiceCommand	
RollCubeVoiceCommand WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	PlayAGameVoiceCommand	
WhatsMyNameVoiceCommand WhileInAirDispatcher WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	PopAWheelieVoiceCommand	
WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	RollCubeVoiceCommand	
WhileInAirResponses WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	WhatsMyNameVoiceCommand	
WhileInAirResponsesPRDemo InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	WhileInAirDispatcher	
InitNormalOperation InitPRDemo IntentUnmatched ModeSelector	WhileInAirResponses	
InitPRDemo IntentUnmatched ModeSelector	WhileInAirResponsesPRDemo	
IntentUnmatched ModeSelector	InitNormalOperation	
ModeSelector	InitPRDemo	
	IntentUnmatched	
MovementBackward	ModeSelector	
	MovementBackward	

Behavior ID	Description
MovementForward	
MovementTurnAround	
MovementTurnLeft	
MovementTurnRight	
NoCloud	
NormalWakeUp	
NoWifi	
Onboarding	
OnboardingComeHere	
OnboardingEmulate1p0WaitForVC	
MandatoryPhysicalReactions	
OnboardingLookAtPhone	
OnboardingLookAtUser	
On boarding Look At User Off Charger	
On boarding Look At User On Charger	
OnboardingPowerOff	
OnboardingTeachComeHere	
OnboardingTeachMeetVictor	
OnboardingTeachWakeWord	
OnboardingWakeUp	
PRDemoBigGreeting	
PRDemoComeHere	
PRDemoExploring	
PRDemoObserving	
PRDemoSleeping	
PRDemoStateMachine	
ProceduralTurnToMicDirection	
QuietMode	
QuietModeEmergencyModeGoHome	
ReactToAbuse	
ReactToAffirmative	
ReactToApology	
ReactToBatteryTooHotToCharge	
ReactToCliff	
Reactioenn	

ReactToFrustrationMajor ReactToGoodBye ReactToGoodMorning ReactToHand ReactToHand ReactToHello ReactToLove ReactToNegative ReactToNegative ReactToPlacedOnSlope ReactToPutDown ReactToPutDown ReactToRobotOnBack ReactToRobotOnBack ReactToRobotOnFace ReactToRobotOnSide ReactToRobotShaken ReactToSoundAsleep ReactToSoundAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear ShutUpAnims	Behavior ID	Description
ReactToGoodMorning ReactToHand ReactToHand ReactToHello ReactToLove ReactToMotorCalibration ReactToNegative ReactToObstacle ReactToPutDown ReactToPutDown ReactToRobotOnBack ReactToRobotOnBack ReactToRobotOnSide ReactToRobotShaken ReactToRobotShaken ReactToSoundAsleep ReactToSoundAsleep ReactToSoundDirectionAwake ReactToSoundDirectionAwake ReactToToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLif	ReactToDarkness	
ReactToGoodMorning ReactToHand ReactToHand ReactToLove ReactToMotorCalibration ReactToNegative ReactToObstacle ReactToPlacedOnSlope ReactToPutDown ReactToRobotOnBack ReactToRobotOnBack ReactToRobotOnSide ReactToRobotShakenSnowGlobe ReactToRobotShakenSnowGlobe ReactToSoundAsleep ReactToSoundAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ReactToUncalibrat	ReactToFrustrationMajor	
ReactToHand ReactToHello ReactToLove ReactToMotorCalibration ReactToNegative ReactToObstacle ReactToPutCown ReactToPutDown ReactToRobotOnBack ReactToRobotOnBack ReactToRobotOnSide ReactToRobotShaken ReactToRobotShaken ReactToRobotShaken ReactToSoundAsleep ReactToSoundAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToGoodBye	
ReactToLove ReactToMotorCalibration ReactToMotorCalibration ReactToMotorCalibration ReactToObstacle ReactToPlacedOnSlope ReactToPutDown ReactToRobotOnBack ReactToRobotOnBack ReactToRobotOnFace ReactToRobotShaken ReactToRobotShaken ReactToRobotShaken ReactToSoundAsleep ReactToSoundAwake ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTouchPetting ReactToUncalibratedHeadAndLift ResctSafely SDKOverrideAll SeasonalHappyNewYear	ReactToGoodMorning	
ReactToLove ReactToMotorCalibration ReactToNegative ReactToObstacle ReactToPlacedOnSlope ReactToPutDown ReactToRobotOnBack ReactToRobotOnFace ReactToRobotOnFace ReactToRobotShaken ReactToRobotShaken ReactToRobotShakenSnowGlobe ReactToSoundAsleep ReactToSoundAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTiggerDirectionAwake ReactToTingerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ResctSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToHand	
ReactToNotorCalibration ReactToNegative ReactToObstacle ReactToPlacedOnSlope ReactToPutDown ReactToRobotOnBack ReactToRobotOnFace ReactToRobotOnFace ReactToRobotShaken ReactToRobotShaken ReactToSoundAsleep ReactToSoundAwake ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTofiggerDirectionAwake ReactToUncalibratedHeadAndLift	ReactToHello	
ReactToNegative ReactToPlacedOnSlope ReactToPlacedOnSlope ReactToRobotOnBack ReactToRobotOnFace ReactToRobotOnSide ReactToRobotShaken ReactToRobotShakenSnowGlobe ReactToSoundAsleep ReactToSoundAwake ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ReactToTouchPetting ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToLove	
React ToPtacedOnSlope React ToPutDown React ToRobotOnBack React ToRobotOnFace React ToRobotOnSide React ToRobotShaken React ToRobotShakenSnowGlobe React ToSoundAsleep React ToSoundAwake React ToSoundDirectionAsleep React ToSoundDirectionAwake React ToUncalibratedHeadAndLift React ToUnc	ReactToMotorCalibration	
ReactToPutDown ReactToRobotOnBack ReactToRobotOnFace ReactToRobotOnSide ReactToRobotShaken ReactToRobotShakenSnowGlobe ReactToSoundAsleep ReactToSoundAwake ReactToSoundDirectionAsleep ReactToToiggerDirectionAwake ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUncalibratedHeadAndLift ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyNewYear	ReactToNegative	
ReactToRobotOnBack ReactToRobotOnFace ReactToRobotOnSide ReactToRobotShaken ReactToRobotShakenSnowGlobe ReactToSoundAsleep ReactToSoundAwake ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUncaletting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToObstacle	
ReactToRobotOnFace ReactToRobotOnSide ReactToRobotShaken ReactToRobotShakenSnowGlobe ReactToSoundAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUnexpectedMovement ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToPlacedOnSlope	
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ReactToRobotShakenSnowGlobe ReactToSoundAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToToSoundDirectionAwake ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUnexpectedMovement ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToRobotOnFace	
ReactToSoundAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTriggerDirectionAwake ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUnexpectedMovement ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToRobotOnSide	
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ReactToSoundDirectionAsleep ReactToSoundDirectionAwake ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUnexpectedMovement ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToSoundAsleep	
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ReactToTriggerDirectionAwake ReactToUncalibratedHeadAndLift ReactToUnexpectedMovement ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToSoundDirectionAsleep	
ReactToUncalibratedHeadAndLift ReactToUnexpectedMovement ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToSoundDirectionAwake	
ReactToUnexpectedMovement ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToTriggerDirectionAwake	
ReactToTouchPetting ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	React To Uncalibrate d Head And Lift	
ReactToUnclaimedIntent ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToUnexpectedMovement	
ResetSafely SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToTouchPetting	
SDKDefault SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ReactToUnclaimedIntent	
SDKOverrideAll SeasonalHappyHolidays SeasonalHappyNewYear	ResetSafely	
SeasonalHappyHolidays SeasonalHappyNewYear	SDKDefault	
SeasonalHappyNewYear	SDKOverrideAll	
	SeasonalHappyHolidays	
ShutUpAnims	SeasonalHappyNewYear	
	ShutUpAnims	
ShutUpMode	ShutUpMode	
SingletonAnticShowClock	SingletonAnticShowClock	
SingletonCancelTimer	SingletonCancelTimer	

Behavior ID Description	
SingletonICantDoThat	
Singleton Powering Robot Off	
SingletonTimerAlreadySet	
SingletonTimerAntic	
SingletonTimerCheckTime	
SingletonTimerRinging	
SingletonTimerSet	
StayOnChargerUntilCharged	
StuckOnEdge	
TakeAPhotoCoordinator	
TimerRingingPRDemo	
TimerUtilityCoordinator	
TriggerWordDetected	
TriggerWordWithoutIntent	
UserDefinedBehaviorSelector	
User Defined Behavior Tree Confirm New Behavior	
User Defined Behavior Tree Router	
User Defined Behavior Tree Text To Speech	
Volume	
Wait	
WeatherCloudyGeneric	
WeatherColdClearGeneric	
WeatherRainGeneric	
WeatherSnowGeneric	
WeatherStarsGeneric	
WeatherSunnyGeneric	
WeatherThunderstormsGeneric	
WeatherWindyGeneric	
WeatherResponses	
WeatherTextToSpeech	

7.3 Console variables

7.3.1 Console Variables

Console Variables are part of the developer build. They allow the developer to test, diagnose, and tweak (inject data into) the various modules.

This note is to help gather a description of each of console variables. This format lets us gather information on them, and help understand where they fit in.

These tables are not suitable for the TRM at this time; they may go better in the software design description in the future.

Note: the k seems to be dropped or optional in matching

A/B Testing console variables

Variable	Туре	Units	Description
kForceDisableABTesting			

AlWhiteboard console variables

Variable	Туре	Units	Description
kBW_PossibleObjectClose_mm			

Alexa console variables

Variable	Туре	Units	Description
kAcousticTestMode			
kAlexa Enabled In AU			
kAlexa Enabled In UK			
$kAlexaHackCheckForSystemClockSyncPeriod_s$			
kAlexaIdleDelay_s			
kAlexaMaxIdleDelay_s			
kAllowAudioOnCharger			
$kDEV_ONLY_EnableAlexaTemplateRendererStub$			
kLogAlexaDirectives			
kNotchPower			

Alexa.Init console variables

Variable	Туре	Units	Description
kDumpAlexaTriggerAudio			

Alexa. Messaging console variables

Variable	Туре	Units	Description
kLogAlexaMessages			
kStealAlexaWakewordAudio			

Animation console variables

Variable	Туре	Units	Description
kShouldPreCacheSprites			
kEyeDartFocusValue_pix			
kIgnoreAnimWhitelist			

AnimationStreamer console variables

Variable	Туре	Units	Description
k Enable Backpack Lights Track			
kShouldDisplayPlaybackTime			

AnimationStreamer.System console variables

Variable	Туре	Units	Description
kDisplayCPUThrottling			
kDisplayHighTemperature			
kDisplayMemoryPressure			
kThermalAlertTemp_C			

Audio.AnimationStream console variables

Variable	Туре	Units	Description
kAudioAnimationOffset_ms			

Audio.KeepAlive console variables

Variable	Туре	Units	Description
kEnableKeepAliveEyeBlinkAudioEvents			
kEnable Keep A live Eye Dart Audio Events			
kEnable Keep A live Eye Squint Audio Events			

Audio.Microphone console variables

Variable	Туре	Units	Description
kNoiseFloorMin			
kNoiseFloorRange			

Audio.Procedural console variables

Variable	Туре	Units	Description
kEnableHeadProceduralMovement			
k Enable Lift Procedural Movement			
k Enable Tread Procedural Movement			
kHeadCoolDown_ms			
$kHeadMovementThreshold_rpms$			
kLiftCoolDown_ms			
kLiftMovementThreshold_rpms			
kMaxHeadAccel_rpms2			
kMaxHeadSpeed_rpms			
kMaxLiftAccel_rpms2			
kMaxLiftSpeed_rpms			
kMaxTreadAccel_mmpms2			
kMaxTreadSpeed_mmps			
kMaxTurnSpeed_mmps			
kTreadMovementThreshold_mmps			
kTreadCoolDown_ms			

BackpackLights console variables

Variable	Туре	Units	Description
kOfflineCheckFreq_ms			
$kOfflineTimeBeforeLights_ms$			

BasicActions.TurnTowardsObject console variables

Variable	Туре	Units	Description
kInsert Waits In Turn Towards Object Verify			

Behavior.BehaviorGoHome console variables

Variable	Туре	Units	Description
kGoHome_VisualVerification_SaveImages			

Behavior.CheckForAndReactToSalientPoint console variables

Variable	Туре	Units	Description
kCFARTSP_CooldownOverride_sec			

BehaviorCountingAnimation console variables

Variable	Туре	Units	Description
kSlowLoopBeginSize_loops			

BehaviorDanceToTheBeatCoordinator console variables

Variable	Туре	Units	Description
kDancingCooldown_sec			

Behaviors.BehaviorSystemManager console variables

Variable	Туре	Units	Description
kDebugBehaviorStack			

Behavior.EnrollFace console variables

Variable	Туре	Units	Description
$kEnrollFace_TimeoutForReLookForFace_ms$			

BehaviorExploring console variables

Variable	Туре	Units	Description	
k Exploring Post Bump Reference Prob				
kMinObjectWidthToBump_rad				
kProbReferenceOnResume				

BehaviorHighLevelAl console variables

Variable	Туре	Units	Description
kTimeMultiplier			

Behavior.InteractWithFaces console variables

Variable	Туре	Units	Description		
kInteractWithFaces_DriveForwardIdealDist_mm					
kWiggle_ForwardDist_mm					

Behavior.InternalStatesBehavior console variables

Variable	Туре	Units	Description
kDebugInternalStatesBehavior			

Behavior.LookAroundInPlace console variables

Variable	Туре	Units	Description
kVizConeOfFocus			

BehaviorPlannerTest console variables

Variable	Туре	Units	Description
kCubeDistance_mm			

Behavior.PutDownBlock console variables

Variable	Туре	Units	Description
$kBPDB_finalHeadAngle_deg$			

Behavior.PuzzleMaze console variables

Variable	Туре	Units	Description
kPuzzleTimeout_sec			

Behavior.ReactToCliff console variables

Variable	Туре	Units	Description
kMaxNumRobotStopsBeforeGivingUp			

Behavior.ReactToHand console variables

Variable	Туре	Units	Description
$kHandReaction_DriveForwardSpeed_mmps$			

Behavior.ReactToPalmEdge console variables

Variable	Туре	Units	Description
k Max Num Initial React Attempts Before Giving Up			

Behavior.TakeAPhoto console variables

Variable	Туре	Units	Description
kHeadAngleDeg			

Console console variables

Variable	Туре	Units	Description
kSaveModifiedConsoleVarsOnly			

CpuProfiler console variables

Variable	Туре	Units	Description
kMessageProfilerDuration			
maxProcessingTimePerDrop_ms			

CubeLightDesign console variables

Variable	Туре	Units	Description
kLED1_s1_red			

CubeSpinner console variables

Variable	Туре	Units	Description
kAdjustHeightOfSpinnerLift			
kDedupTimeAfterLock_ms			
kIReally Really Want To Break Cube Spinner			

Dev console variables

Variable	Туре	Units	Description
kForceDisableAnkiDevFeatures			

DevBaseBehavior console variables

Variable	Туре	Units	Description
kDevDispatchAfterShake			

DevSquawkBoxBehavior console variables

Variable	Туре	Units	Description
kLiftMovementDuration_s			

DevViewLights console variables

Variable	Туре	Units	Description
kCubeTriggerIdx			

DockingMethod(B:0 T:1 H:2) console variables

Variable	Туре	Units	Description
kDefaultDockingMethod			

DockingTest console variables

Variable	Туре	Units	Description
kMaxNumAttempts			

DriveToActions console variables

Variable	Туре	Units	Description
kEnable Predock Distance Check Fix			

Face.KeepAlive console variables

Variable	Туре	Units	Description
kKeepAliveBlink_SpacingMaxTime_ms			
$kKeepAliveBlink_SpacingMinTime_ms$			
$kKeepAliveEyeDart_DownMinScale$			
$k Keep A live Eye Dart_Hot Spot Position Multiplier$			
$kKeepAliveEyeDart_LongDistanceThresh_pix$			
$k Keep A live Eye Dart_Long Shift Fraction 1\\$			
kKeepAliveEyeDart_LongShiftFraction2			
$k Keep A live Eye Dart_Long Squash Fraction 1\\$			
$kKeepAliveEyeDart_LongSquashFraction2$			
$kKeepAliveEyeDart_MaxDistFromCenter_pix$			
$kKeepAliveEyeDart_MaxDistFromCenterFocused_pix$			
$kKeepAliveEyeDart_MediumDistanceThresh_pix$			
$kKeepAliveEyeDart_MediumShiftFraction$			
$kKeepAliveEyeDart_MediumSquashFraction$			
$kKeepAliveEyeDart_OuterEyeScaleIncrease$			
$k Keep A live Eye Dart_Shift Lag Fraction \\$			
kKeepAliveEyeDart_SpacingMaxTime_ms			
kKeepAliveEyeDart_SpacingMinTime_ms			
kKeepAliveEyeDart_UpMaxScale			
$kMaxBlinkSpacingTimeForScreenProtection_ms$			

Habitat console variables

Variable	Туре	Units	Description
kDevForceBeginConfirmHabitat			

TrackingActions console variables

Variable	Туре	Units	Description
kOverride_PanDuration_s			

Face.ParameterizedFace console variables

WallTime console variables

Variable	Туре	Units	Description
kProcFace_AntiAliasingFilter			
kProcFace_AntiAliasingSigmaFraction			
kProcFace_AntiAliasingSize			
kProcFace_Display			
kProcFace_EllipseDelta			
kProcFace_EnableAntiAliasing			
kProcFace_EyeLightnessMultiplier			
kProcFace_Gamma			
kProcFace_GammaType			
kProcFace_HotspotFalloff			
kProcFace_HotspotRender			
kProcFace_InterpolationType			
kProcFace_LineType			
kProcFace_NoiseMaxLightness			
kProcFace_NoiseMinLightness			
kProcFace_NoiseNumFrames			
kProcFace_NominalEyeSpacing			
ProcFace_OverrideEyeParams			
ProcFace_OverrideRightEyeParams			
ProcFace_FromLinear			
ProcFace_ToLinear			
ProcFace_DefaultScanlineOpacity			
ProcFace_NominalEyeSpacing			
ProcFace_NoiseFraction			
ProcFace_UseAntiAliasedLines			
ProcFace_GlowRender			
ProcFace_GlowSizeMultiplier			
ProcFace_GlowLightnessMultiplier			
ProcFace_GlowGaussianFilter			
ProcFace_AntiAliasingGaussianFilter			

Face.ScanlineDistortion console variables

Variable	Туре	Units	Description	
kProcFaceScanline_MaxShiftNoise				
kProcFaceScanline_OffNoiseMaxWidth				
kProcFaceScanline_OffNoiseProb				

FaceInfoScreenManager console variables

Variable	Туре	Units	Description
kAlexaNotificationTimeout_s			
$kButton Press Duration For Shutdown_ms$			
kFakeButtonPressType			
kToggleMuteTimeout_s			

GlitchLights console variables

Variable	Туре	Units	Description
kGlitchLightDelay_ms			
kGlitchLightDuration_ms			

HeldInPalm.Coordinator console variables

Variable	Туре	Units	Description
$kMaxTimeForInitialHeldInPalmReaction_ms$			

kWebvizUpdatePeriod console variables

Variable	Туре	Units	Description
kWebvizUpdatePeriod			

LiftLoadTest console variables

Variable	Туре	Units	Description
kNumLiftRaises			

ManualAnimationPlayback console variables

Variable	Туре	Units	Description
k Should Display Key frame Number			
kNumberOfFramesToIncrement			

MicData console variables

Variable	Туре	Units	Description
kBeatDetectorUseProcessedAudio			
kDevForceProcessState			
kMicData_ClipRecordTime_ms			
kMicData_CollectRawTriggers			
kMicData_ForceDisableMicDataProc			
kMicData_ForceEnableMicDataProc			
kMicData_QuietTimeCooldown_ms			
kMicData_SaveRawFullIntent			
$kMicData_SaveRawFullIntent_WakeWordless$			
$kMicData_SpeakerNoiseDisablesMics$			
kSaveNotches			

Network console variables

Variable	Туре	Units	Description
k Enable Verbose Network Logging			
kMaxPingTimesToTrackOverride			
kPrintNetworkStats			
kPrintNetworkStatsTimeSpacingMS			

Network.Emulator console variables

Variable	Туре	Units	Description
gUDPMaxLatency			
gUDPMinLatency			
gUDPNetEmulatorEnabled			
gUDPNetEmulatorRuntimeToggling			
gUDPRandomPacketLossPercentage			

Network.Stats console variables

Variable	Туре	Units	Description
kLogMessageLatencyOnce			
gNetStat1NumConnections			
gNetStat2LatencyAvg			
gNetStat3LatencySD			
gNetStat4LatencyMin			
gNetStat5LatencyMax			
gNetStat6PingArrivedPC			
gNetStat7ExtQueuedAvg_ms			
gNetStat8ExtQueuedMin_ms			
gNetStat9ExtQueuedMax_ms			
gNetStatAQueuedAvg_ms			
gNetStatBQueuedMin_ms			
gNetStatCQueuedMax_ms			
kNetConnStatsUpdate			

OSState.DiskInfo console variables

Variable	Туре	Units	Description
$k \\ High Disk \\ Pressure \\ Multiple$			
k Medium Disk Pressure Multiple			

OSState.MemoryInfo console variables

Variable	Туре	Units	Description
kHighMemPressureMultiple			
k Medium Mem Pressure Multiple			

OSState.Temperature console variables

Variable	Туре	Units	Description
kFakeCpuTemperature_degC			
kSendFakeCpuTemperature			

OSState.Timezone console variables

Variable	Туре	Units	Description
kOSState_FakeNoTime			
kOSState_FakeNoTimezone			

OSState.Wifilnfo console variables

Variable	Туре	Units	Description
kHighWifiErrorRate			
k Medium Wifi Error Rate			

SpeechRecognizer console variables

Variable	Туре	Units	Description
kSuppressTriggerResponse			

SpeechRecognizer.Alexa console variables

Variable	Туре	Units	Description
kAlexaRecognizerModel			
kDefaultDetectThreshold			
kForceRunNotchDetector			
kSaveRawMicInput			

SpeechRecognizer.AlexPlayback console variables

Variable	Туре	Units	Description
kAlexaPlaybackRecognizerModel			
k Playback Recognizer Sample Count Threshold			

SpeechRecognizer.Vector console variables

Variable	Туре	Units	Description
kVectorRecognizerModel			
kVectorRecognizerModelSensitivity			

StayOnCargerUntilCharged console variables

Variable	Туре	Units	Description
kSafeguardTimeout_s			

TextToSpeech console variables

Variable	Туре	Units	Description
kEnablePausePrams			
kLeadingSilence_ms			
kMinPlayableFrames			
kPauseBracket_ms			
kPauseComma_ms			
kPausePunctuation_ms			
kPauseSemicolon_ms			
kPauseSpelling_ms			
kTrailingSilence_ms			
kVoicePitch			
kVoiceShaping			
kVoiceSpeed			
kWriteTTSFile			

Vision.GazeDirection console variables

Variable	Туре	Units	Description
$kFace Directed At Robot Min XThres_mm$			

VoiceMessage console variables

Variable	Туре	Units	Description
kRequireKnownUser			
•			

WallTime console variables

Variable	Туре	Units	Description
kFakeWallTimeIsSynced			

Not Yet Classified

Variable	Туре	Units	Description

7.4 Channels

I'm not sure what these are. They may be part of the logging of information and routing it internally and to a log file.

This note is to help gather a description of each of the channels. This format lets us gather information on them, and help understand where they fit in.

Channel	Description
Actions	
AIWhiteboard	
Alexa	
Audio	
Behaviors	
BlockPool	
BlockWorld	
CpuProfiler	
FaceRecognizer	
FaceWorld	
JdocsManager the cloud storage?	
Keyboard	
MessageProfiler	
Microphones	
NeuralNets	
PerfMetric	
PoseConfirmer	
SpeechRecognizer	
VisionComponent	
VisionSystem	

7.5 Software Classes

Vector's software has a lot of modules -- I'm assuming these are C++ classes. They are not all annotated or understood. Here are some that we've spotted:

Module Description
AIComponent
AIWhiteboard
AccountSettingsManager
ActionList
ActionQueue
Actions
ActiveFeatureComponent
AddActiveObject
AdvertisementService
AkAlsaSink
Alexa
AlexaAudioInput
AlexaClient
AlexaComponent
AlexaImpl
AlexaMediaPlayer
AlexaObserver
AlexaPlaybackRecognizerComponent
AlignWithObjectAction
AnimComms
AnimContext
AnimEngine
AnimProcessMessages
Animation
AnimationAudioClient
AnimationComponent
AnimationGroup
AnimationGroupContainer
AnimationGroupEntry
AnimationStreamer
Animations
AnkiLab
AppCubeConnectionSubscriber
Array2d
AttentionTransferComponent

Module Description
AudienceTags
Audio
AudioBehaviorStackListener
AudioEngineController
AudioEventGroupRef
AudioMultipleFileLocation
AudioMultiplexer
AudioMuxClient
AudioScene
AudioSceneEvent
AudioSceneParameter
AudioSceneStateGroup
AudioWaveFileReader
BEIConditionFactory
BEIConditionMessageHelper
BackpackLightAnimationContainer
BackpackLightComponent
BackpackLightsKeyFrame
BackupOntoChargerAction
Battery
BatteryComponent
BeatDetector
BeatDetectorComponent
Behavior
BehaviorAcknowledgeFace
BehaviorAcknowledgeObject
BehaviorAlexa
BehaviorAnimSequenceWithObject
BehaviorAskForHelp
BehaviorBlackJack
BehaviorBumpObject
BehaviorClearChargerArea
BehaviorComponent
BehaviorConfirmObject
BehaviorConnectToCube

Module Description	
BehaviorCoordinateInHabitat	
BehaviorCoordinateWeather	
BehaviorCountingAnimation	
BehaviorDanceToTheBeat	
BehaviorDanceToTheBeatCoordinator	
BehaviorDevCubeSpinnerConsole	
BehaviorDevSquawkBoxTest	
BehaviorDevTurnInPlaceTest	
BehaviorDispatchAfterShake	
BehaviorDispatcherPassThrough	
BehaviorDispatcherQueue	
BehaviorDispatcherRandom	
BehaviorDispatcherStrictPriorityWithCooldown	
BehaviorDisplayWallTime	
BehaviorDisplayWeather	
BehaviorDockingTest	
BehaviorDockingTestSimple	
BehaviorDriveOffCharger	
BehaviorEnrollFace	
BehaviorExploring	
BehaviorExploringExamineObstacle	
BehaviorEyeColorVoiceCommand	
BehaviorFactoryCentroidExtractor	
BehaviorFetchCube	
BehaviorFindCube	
BehaviorFindFaceAndThen	
BehaviorFindHome	
BehaviorFistBump	
BehaviorGoHome	
BehaviorGreetAfterLongTime	
BehaviorHowOldAreYou	
BehaviorInspectCube	
BehaviorInteractWithFaces	
BehaviorKeepaway	

Module Description	
BehaviorLiftLoadTest	
BehaviorLookForFaceAndCube	
BehaviorObservingLookAtFaces	
BehaviorObservingWithoutTurn	
BehaviorOnboardingCoordinator	
BehaviorPRDemo	
BehaviorPlaceCubeByCharger	
BehaviorPlaypenCameraCalibration	
BehaviorPlaypenDistanceSensor	
BehaviorPlaypenDriftCheck	
BehaviorPlaypenEndChecks	
BehaviorPlaypenPickupCube	
BehaviorPlaypenTest	
BehaviorPopAWheelie	
BehaviorPounceOnMotion	
BehaviorPoweringRobotOff	
BehaviorPromptUserForVoiceCommand	
BehaviorPuzzleMaze	
BehaviorQuietModeCoordinator	
BehaviorReactToBody	
BehaviorReactToCliff	
BehaviorReactToCubeTap	
BehaviorReactToDarkness	
BehaviorReactToHand	
BehaviorReactToMicDirection	
BehaviorReactToMotion	
BehaviorReactToMotorCalibration	
BehaviorReactToPlacedOnSlope	
BehaviorReactToRobotOnBack	
BehaviorReactToRobotOnFace	
BehaviorReactToTouchPetting	
Behavior React To Uncalibrate d Head And Lift	
BehaviorReactToUnexpectedMovement	
· ··· · · · · · · · · · · · · · · · ·	
BehaviorReactToVoiceCommand	

Module Description
BehaviorResetState
BehaviorRespondToRenameFace
BehaviorRobustChargerObservation
BehaviorSDKInterface
BehaviorSDKLock
BehaviorSayName
BehaviorSelfTest
BehaviorSelfTestDockWithCharger
BehaviorSelfTestDriftCheck
BehaviorSelfTestLookAtCharger
BehaviorSleepCycle
BehaviorSystem
BehaviorSystemManager
BehaviorTakeAPhotoCoordinator
BehaviorTextToSpeechLoop
BehaviorTrackCube
BehaviorTrackFace
Behavior User Defined Behavior Tree Router
Behavior User Defined Behavior Tree Selector
BehaviorVolume
Behaviors
BehaviorsBootLoader
BlackJackGame
BlackJackSimulation
BlackJackVisualizer
Block
BlockPool
BlockTapFilterComponent
BlockWorld
BodyMotionKeyFrame
CalculateExperimentHashBucket
Camera
CameraCalibrator
CameraParamsController
CannedAnimationContainer

Module Description	
CannedAnimationLoader	
CardSimulation	
CarryingComponent	
ChannelFilter	
CladEnumToStringMap	
CliffAlignToWhiteAction	
CliffSensor	
CliffSensorComponent	
ColorRGBA	
CompositeImage	
CompositeImageLayer	
CompoundActionParallel	
CompoundActionSequential	
ComputePlacementApproachAngle	
Compute Pre Action Pose Dist Threshold	
ConditionCompound	
ConditionEngineErrorCodeReceived	
ConditionIlluminationDetected	
ConditionMotionDetected	
ConfirmHabitat	
ConnectionFlow	
Console	
ConsoleSystem	
Context	
ContinuityComponent	
CoreTech	
CozmoAPI	
CozmoAnimMain	
CozmoAudioController	
CozmoEngine	
CozmoGameImpl	
CropScheduler	
CubeAccelComponent	
CubeBatteryComponent	
CubeComms	

Module Description
CubeCommsComponent
CubeConnectionCoordinator
CubeInteractionTracker
CubeLightAnimationContainer
CubeLightAnimationHelpers
CubeLightComponent
CubeLightController
CubeSpinnerGame
CustomObject
DTRawPixelsClassifier
DanceAnimMetadata
DancePhrase
DanceSession
DasToSdkHandler
DasToSdkManager
DataPlatform
Demo
DevEventSequenceCapture
DoleAvailableAnimations
DriveAndFlipBlockAction
DriveStraightAction
DriveToActions
DriveToFlipBlockPoseAction
DriveToObjectAction
DriveToPlaceCarriedObjectAction
DriveToPlaceRelObjectAction
DriveToPoseAction
DrivingAnimationHandler
EmotionAffector
EmotionEvent
EmotionEventMapper
EmotionScorer
EngineRobotAudioClient
EngineRobotAudioInput
EnrolledFaceEntry

Module	Description
EraseAllFaces	
Error	
EventKeyFrame	
Expected	
Experiment	
FaceDisplay	
FaceInfoScreenManager	
FaceLayerManager	
FacePlantAction	
FaceRecognizer	
FaceTrackerImpl	
FaceWorld	
Factory	
FactoryTestLogger	
FeatureGate	
FileTransfer	
FindFaces	
FlipBlockAction	
FormatBytesAsHex	
GMMRawPixelsClassifier	
GetAnimationName	
Get Broad cast Address From If Addr	
GetIPv6LinkLocalAddress	
GetLocalIpAddress	
GetLocalIpAddressFromIfAddr	
GetLocalIpv6LinkLocalAddress	
GetMaxOffsetObjectStillVisible	
GetNextAlbumEntryToUse	
GetNextPacketFromEngine	
GetNextPacketFromRobot	
GetRecognitionData	
GetSerializedAlbum	
GoogleBreakpad	
GraphEvaluator2d	
GroundPlaneClassifier	

Module Description
HabitatDetectorComponent
HandleAnimationEvent
HandleMotorAutoEnabled
HandleMotorCalibration
HashStringTable
HeldInPalmTracker
HueSatWrapper
IAction
IActionRunner
IBEICondition
IBehavior
IBehaviorPlaypen
IBehaviorSelfTest
ICompoundAction
IConditionUserIntent
ICozmoBehavior
IDockAction
IDriveToInteractWithObject
IFormattedLoggerProvider
IKeyFrame
INeuralNetMain
INeuralNetModel
IPathPlanner
IPv6
IScoredBehavior
ISensorComponent
ITrackAction
ITrackLayerManager
IVisuallyVerifyAction
Id
IdCount
Image
ImageBase
ImageBrightnessHistogram
ImageCache

Module Description
ImageSaver
ImageSensor
ImuComponent
InternalStatesBehavior
Interruption
IsCloseEnoughToPreActionPose
IsExternalSdkConnection
JdocsManager
JsonTools
KnowledgeGraph
KnownMarker
LOG
LaserPointDetector
LinearClassifier
LocalUdpSocketComms
Locale
LocaleComponent
Location
Looking
LoopBoundOverflow
MapComponent
Marker
MarkerDetector
Mask
MenuConsoleChannel
Message
MicComponent
MicDataInfo
MicDataProcessor
MicDataSystem
MicDirectionHistory
MicTriggerConfig
Microphones
MinimalAnglePlanner
Mood

Module Description
MoodDecayEvaulator
MoodManager
MoodScorer
MountChargerAction
MoveHeadToAngleAction
MoveLiftToAngleAction
MoveLiftToHeightAction
Movement
MovementComponent
MultiClientComms
MusicConductor
NVStorage
NVStorageComponent
NamedColors
NativeAnkiUtilConsoleCallFunction
NativeAnkiUtilConsoleIsDefaultValue
Native Anki Util Console Reset Value To Default
NativeAnkiUtilConsoleSetValueWithString
NativeAnkiUtilConsoleToggleValue
NetEmulatorUDPSocket
Network
NeuralNetModel
NeuralNetParams
NeuralNetRunner
NeuralNets
ObjectInteractionInfoCache
ObservableObject
ObservableObjectLibrary
ObservableObjectsLibrary
OffboardModel
OverheadMap
PackMaskedId
PackMaskedIds
PanAndTiltAction
ParamTraits

Module Description
PathComponent
PathDolerOuter
PerfMetric
PetTracker
PhotographyManager
PickupObjectAction
PlaceObjectOnGroundAction
PlaceRelObjectAction
Planner
PlayAnimationAction
PopAWheelieAction
Pose3d
PoseBase
PowerStateManager
PowerStates
PreActionPose
ProceduralFace
ProcessRegistrationMsg
ProxSensorComponent
PublicStateBroadcast
PublicStateBroadcaster
Puzzle
QuadTree
QuadTreeNode
QuestEngine
Ran
RandomGenerator
Random VectorSampler
ReactionStrategyFacePositionUpdate
ReadBMP
RecentOccurrenceTracker
RecognizeFace
Rectangle
RegisterNewUser
RejectIfChargerOutOfView

Module Description	
RejectIfWouldCrossCliff	
ReliableConnection	
ReliableTransport	
RemoveUser	
RequestAvailableAnimations	
ReselectingLoopAnimationAction	
RetryWrapperAction	
Robot	
RobotActionParams	
RobotAudioKeyFrame	
RobotConnectionManager	
RobotDataLoader	
RobotEventHandler	
RobotHealthReporter	
RobotImplMessaging	
RobotInitialConnection	
RobotManager	
RobotState	
RobotStateHistory	
RobotStats	
RobotStatsTracker	
RollObjectAction	
RollingShutterCorrector	
RotationMatrixBase	
RotationVector3d	
SDKComponent	
SayNameProbabilityTable	
SayTextAction	
SdkAudioComponent	
SdkComponent	
SdkLock	
SendPacketToRobot	
SetSerializedAlbum	
SetSockOpt	

Module Description
Setting
SettingsCommManager
SettingsManager
ShowAudioStreamStateManager
Shutting
SimpleMoodScorer
SleepTracker
SoundbankBundleInfo
SoundbankLoader
SpeechRecognizer
SpeechRecognizerPryonLite
SpeechRecognizerSystem
SpeechRecognizerTHF
SpeedChooser
SpriteCache
SpriteEntry
SpritePathMap
SpriteSequence
SpriteSequenceContainer
SpriteSequenceKeyFrame
SpriteSequenceLoader
SpriteWrapper
StandardWaveDataContainer
Starting
StaticMoodData
Stopping
StreamingAnimationModifier
StreamingWaveDataInstance
TFLiteLogReporter
TFLiteModel
TId
TextToSpeech
TextToSpeechComponent
TextToSpeechCoordinator
TextToSpeechProvider

Module Description
TextToSpeechProviderImpl
TimerUtility
TouchBaselineCalibrator
TouchSensor
TouchSensorComponent
Track
TrackFaceAction
TrackGroundPointAction
TrackLayerManager
TrackObjectAction
TrackPetFaceAction
TrackpetFaceAction
TransportAddress
TriggerAnimationAction
TriggerEmotionEvent
TumInPlaceAction
TumTowardsFaceAction
TumTowardsObjectAction
TumTowardsPoseAction
UDPTransport
UdpSocketComms
UiComms
UiMessageHandler
Undistorter
Unfiltered
UnpackMaskedIds
Update
UpdateExistingAlbumEntry
UpdateRecognitionData
UseLoadedAlbumAndEnrollData
Use Loaded Album And Enroll ment Data
User
UserDefinedBehaviorTreeComponent
UserEntitlementsManager
UserIntentComponent

Module	Description
UserIntentMap	
Util	
VariableSnapshotComponent	
VerifyDecayGraph	
VisionComponent	
VisionModeSchedule	
VisionProcessingResult	
VisionScheduleMediator	
VisionSystem	
VisuallyVerifyObjectAction	
VizManager	
VoiceMessage	
VoiceMessageSystem	
WeatherIntentParser	
WwiseComponent	
XYPlanner	

7.6 Source File referenced in the binaries

The following source code files were referenced in the binaries:

File
./././animProcess/src/cozmoAnim/alexa/alexa.cpp
./././animProcess/src/cozmoAnim/alexa/alexaClient.cpp
.J.J./animProcess/src/cozmoAnim/alexa/alexaImpl.cpp
./././animProcess/src/cozmoAnim/alexa/media/alexaMediaPlayer.cpp
./././animProcess/src/cozmoAnim/animation/animationStreamer.cpp
//animProcess/src/cozmoAnim/audio/sdkAudioComponent.cpp
./././animProcess/src/cozmoAnim/faceDisplay/faceInfoScreenManager.cpp
//animProcess/src/cozmoAnim/micData/micDataSystem.cpp
//animProcess/src/cozmoAnim/micData/micImmediateDirection.cpp
./././animProcess/src/cozmoAnim/showAudioStreamStateManager.cpp
./././an im Process/src/cozmoAnim/speech Recognizer/Speech Recognizer THF Simple.cpp
.J.J./cannedAnimLib/baseTypes/keyframe.cpp
./././cannedAnimLib/baseTypes/track.h
./././cannedAnimLib/spriteSequences/spriteSequenceLoader.cpp
.J.J./coretech/common/engine/math/pose.cpp
.J.J./coretech/common/engine/math/poseBase_impl.h
.J.J./coretech/common/engine/math/poseOriginList.cpp
.J.J./coretech/common/engine/math/poseTreeNode.h
.J.J./coretech/common/engine/utils/recentOccurrenceTracker.cpp
.J.J./coretech/common/robot/array2d.h
.J.J./coretech/common/robot/arrayPatterns.h
./././coretech/common/robot/arraySlices.h
.J.J./coretech/common/robot/interpolate.h
.J.J./coretech/common/robot/matrix.h
.J.J./coretech/common/robot/memory.cpp
.J.J./coretech/common/robot/sequences.h
./././coretech/common/robot/serialize.h
.J.J./coretech/vision/engine/camera.cpp
./././coretech/vision/engine/enrolledFaceEntry.cpp
./././coretech/vision/engine/faceRecognizer_okao.cpp
././_/coretech/vision/engine/faceTrackerImpl_okao.cpp
./././coretech/vision/engine/imageBuffer/imageBuffer.cpp
././_/coretech/vision/engine/imageCompositor.cpp
./././coretech/vision/engine/markerDetector.cpp
./././coretech/vision/engine/undistorter.cpp

File
./././coretech/vision/robot/computeCharacteristicScale.cpp
.J.J./coretech/vision/robot/computeCharacteristicScale_binomial.cpp
.J.J./coretech/vision/robot/computeQuadrilaterals.cpp
.J.J./coretech/vision/robot/connectedComponents.h
//.coretech/vision/robot/detectFiducialMarkers.cpp
//.coretech/vision/robot/fiducialMarkers.cpp
./././coretech/vision/robot/filtering.cpp
./././coretech/vision/robot/histogram.cpp
./././coretech/vision/robot/imageProcessing.h
.J.J./coretech/vision/robot/integralImage.cpp
.J.J./coretech/vision/robot/laplacianPeaks.cpp
.J.J./coretech/vision/robot/nearestNeighborLibrary.cpp
.J.J./coretech/vision/robot/quadRefinement.cpp
.J.J./coretech/vision/robot/traceBoundary.cpp
./././coretech/vision/robot/transformations.cpp
./././coretech/vision/shared/compositeImage/compositeImage.cpp
$. \textit{J.J./.} coretech/vision/shared/compositeImage/compositeImageBuilder.cpp}$
. J.J./coretech/vision/shared/compositeImage/compositeImageLayer.cpp
./././coretech/vision/shared/hueSatWrapper.cpp
./././coretech/vision/shared/spriteCache/spriteWrapper.cpp
./././coretech/vision/shared/spritePathMap.cpp
./././coretech/vision/shared/spriteSequence/spriteSequence.cpp
./././cubeBleClient/cubeBleClient.cpp
./././engine/actions/actionContainers.cpp
./././engine/actions/basicActions.cpp
./././engine/actions/dockActions.cpp
./././engine/actions/trackGroundPointAction.cpp
./././engine/aiComponent/aiWhiteboard.cpp
./././engine/aiComponent/alexaComponent.cpp
. J.J. . J.mponent/behaviorComponent/activeBehaviorIterator.cpp
$. \textit{J.J.} / engine/aiComponent/behaviorComponent/asyncMessageGateComponent.cpp} \\$
././/engine/aiComponent/behaviorComponent/behaviorComponentMessageHandler.cpp
./././engine/aiComponent/behaviorComponent/behaviorContainer.h
././/engine/aiComponent/behaviorComponent/behaviorExternalInterface/behaviorEventComponent.cpp
//.engine/aiComponent/behaviorComponent/behaviorExternalInterface/behaviorExternalInterface.cpp

File	
.J.J.Jengine/aiComponent/behaviorComponent/behaviorStack.cpp	
$. \textit{J.J.J.} angine/aiComponent/behaviorComponent/behaviorSystemManager.cpp} \\$	
.J.J.Jengine/aiComponent/behaviorComponent/behaviorTimers.cpp	
.J.J.Jengine/aiComponent/behaviorComponent/behaviorTypesWrapper.cpp	
.J.J.Jengine/aiComponent/behaviorComponent/behaviors/alexa/behaviorAlexa.cpp	
. J.J. J.engine/aiComponent/behaviorComponent/behaviors/animationWrappers/behaviorAnimGetInLoop.cpp	
. J.J. J. J.engine/aiComponent/behaviorComponent/behaviors/animationWrappers/behaviorAnimSequence.cpp	
. J.J. J. J.engine/aiComponent/behaviorComponent/behaviors/animationWrappers/behaviorAnimSequenceWithFace.cpp	
. J.J. J.engine/aiComponent/behaviorComponent/behaviors/animationWrappers/behaviorCountingAnimation.cpp	
. J.J. J.engine/aiComponent/behaviorComponent/behaviors/animationWrappers/behaviorTextToSpeechLoop.cpp	
. J.J. J. J.engine/aiComponent/behaviorComponent/behaviors/attentionTransfer/behaviorAttentionTransferIfNeeded.cpp	
$. \textit{J.J.} J. \textit{J} engine/aiComponent/behaviorComponent/behaviors/basicWorldInteractions/behaviorDriveOffCharger.cpp} \\$	
$. \textit{J.J.} \\ \textit{J.g.} \\ \textit{l.j.} \\ \textit{J.d.} \\ \textit{l.j.} \\ $	
. J.J. Jengine/ai Component/behavior Component/behaviors/behavior High Level AI. cpp	
. J.J. Jengine/ai Component/behavior Component/behaviors/behavior Look Around In Place.cpp	
$. \textit{J.J.J.} lengine/aiComponent/behaviorComponent/behaviors/behaviorResetState.cpp} \\$	
$. \textit{J.J.} Jengine/aiComponent/behaviorComponent/behaviorStayOnChargerUntilCharged.cpp} \\$	
$. \textit{J.J.} Jengine/aiComponent/behaviorComponent/behaviors/blackjack/behaviorBlackJack.cpp} \\$	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/blackjack/blackJackV is unlikely a component of the property of th	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/coordinators/behaviorCoordinateWhileHeldInPalm.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/coordinators/behaviorCoordinateWhileInAir.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/coordinators/behaviorQuietModeCoordinator.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/cubeSpinner/behaviorVectorPlaysCubeSpinner.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/dance To The Beat/behavior Dance To The Beat.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/devBehaviors/behaviorDevViewCubeBackpackLights.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/devBehaviors/behaviorDispatchAfterShake.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/devBehaviors/behaviorReactToBody.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/dispatch/behaviorDispatcherRerun.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/dispatch/behaviorDispatcherScoring.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/dispatch/behaviorDispatcherStrictPriorityWithCooldown.cpp	
$. \textit{J.J.J.} engine/aiComponent/behaviorComponent/behaviors/dispatch/iBehaviorDispatcher.cpp} \\$	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/freeplay/putDownDispatch/behaviorLookForFaceAndCube.cpp	
. J.J.J.engine/aiComponent/behaviorComponent/behaviors/freeplay/userInteractive/behaviorPuzzleMaze.cpp	
$. \textit{J.J.J.} lengine/aiComponent/behaviorComponent/behaviorS/habitat/behaviorConfirmHabitat.cpp} \\$	
$. \textit{J.J.J.} engine/aiComponent/behaviorComponent/behaviors/iCozmoBehavior.cpp} \\$	

File
././. / engine/aiComponent/behaviorComponent/behaviors/internalStatesBehavior.cpp
././. / engine/aiComponent/behaviorComponent/behaviors/meetCozmo/behaviorEnrollFace.cpp
./././engine/aiComponent/behaviorComponent/behaviors/meetCozmo/behaviorRespondToRenameFace.cpp
$. \textit{J.J.} / engine/aiComponent/behaviorComponent/behaviors/photoTaking/behaviorAestheticallyCenterFaces.cpp} \\$
./././engine/aiComponent/behaviorComponent/behaviors/photoTaking/behaviorTakeAPhotoCoordinator.cpp
./././engine/aiComponent/behaviorComponent/behaviors/prDemo/behaviorPRDemoBase.cpp
./././engine/aiComponent/behaviorComponent/behaviors/reactions/behaviorCheckForAndReactToSalientPoint.cpp
./././engine/aiComponent/behaviorComponent/behaviors/reactions/behaviorReactToCliff.cpp
./././engine/aiComponent/behaviorComponent/behaviors/reactions/behaviorReactToDarkness.cpp
./././engine/aiComponent/behaviorComponent/behaviors/reactions/behaviorReactToMotion.cpp
./././engine/aiComponent/behaviorComponent/behaviors/reactions/behaviorReactToPutDown.cpp
./././engine/aiComponent/behaviorComponent/behaviors/reactions/behaviorReactToUnexpectedMovement.cpp
./././engine/aiComponent/behaviorComponent/behaviors/reactions/behaviorReactToVoiceCommand.cpp
//. engine/aiComponent/behaviorComponent/behaviors/robotDrivenDialog/behaviorPromptUserForVoiceCommand.cpp
./././engine/aiComponent/behaviorComponent/behaviors/sdkBehaviors/behaviorSDKInterface.cpp
. J.J. . J.mp in e/ai Component/behavior Component/behaviors/simple Face Behaviors/behavior Drive To Face .cpp
$. \textit{J.J.} / engine/aiComponent/behaviorComponent/behaviors/simpleFaceBehaviors/behaviorFindFaceAndThen.cpp} \\$
./././engine/aiComponent/behaviorComponent/behaviors/simpleFaceBehaviors/behaviorSayName.cpp
./././engine/aiComponent/behaviorComponent/behaviors/sleeping/behaviorSleepCycle.cpp
././. / engine/aiComponent/behaviorComponent/behaviors/timer/behaviorProceduralClock.cpp
././. / engine/aiComponent/behaviorComponent/behaviors/timer/behaviorTimerUtilityCoordinator.cpp
././. / engine/aiComponent/behaviorComponent/behaviors/timer/behaviorWallTimeCoordinator.cpp
././. Jengine/aiComponent/behaviorComponent/behaviors/userDefinedBehaviorTree/behaviorUserDefinedBehaviorSelector.cpp
././. Jengine/aiComponent/behaviorComponent/behaviors/victor/behaviorReactToTouchPetting.cpp
././. Jengine/aiComponent/behaviorComponent/behaviors/victor/behaviorReactToUnclaimedIntent.cpp
././. / engine/aiComponent/behaviorComponent/behaviors/victor/behaviorTrackFace.cpp
././. / engine/aiComponent/behaviorComponent/behaviors/weather/behaviorCoordinateWeather.cpp
././. / engine/aiComponent/behaviorComponent/behaviors/weather/behaviorDisplayWeather.cpp
./././engine/aiComponent/behaviorComponent/behaviorsBootLoader.cpp
./././engine/aiComponent/behaviorComponent/iBehavior.cpp
./././engine/aiComponent/behaviorComponent/stackMonitors/stackCycleMonitor.cpp
././/engine/aiComponent/behaviorComponent/userDefinedBehaviorTreeComponent/userDefinedBehaviorTreeComponent.cpp
./././engine/aiComponent/behaviorComponent/userIntentComponent.cpp
./././engine/aiComponent/behaviorComponent/userIntentMap.cpp
//engine/aiComponent/behaviorComponent/weatherIntents/weatherConditionRemaps.cpp

File
.J.J./engine/aiComponent/beiConditions/beiConditionFactory.cpp
. J.J. . J.mgine/aiComponent/beiConditions/conditions/conditionAnyStimuli.cpp
. J.J. / engine / ai Component / bei Conditions / conditions / condition Battery Level. cpp
. J.J. J.engine/aiComponent/beiConditions/conditions/conditionBecameTrueThisTick.cpp
//./engine/aiComponent/beiConditions/conditions/conditionBehaviorTimer.cpp
.J.J.Jengine/aiComponent/beiConditions/conditions/conditionCliffDetected.cpp
$. {\it J.J. J. engine/ai Component/bei Conditions/conditions/condition Emotion.cpp}}$
.J.J./engine/aiComponent/beiConditions/conditions/conditionFeatureGate.cpp
. J.J. / engine/ai Component/bei Conditions/condition Object Known.cpp
. J.J. . Jengine/aiComponent/beiConditions/conditionS/conditionOffTreadsState.cpp
.J.J./engine/aiComponent/beiConditions/conditionProxInRange.cpp
. J.J. . Jengine/aiComponent/beiConditions/conditions/conditionRobotPitchInRange.cpp
. JJ / engine/ai Component/bei Conditions/conditions/conditionRobot Roll In Range. cpp
. J.J. . Jengine/aiComponent/beiConditions/conditions/conditionSalientPointDetected.cpp
$. \textit{J.J.} \\ \textit{J.mgine/aiComponent/beiConditions/conditionSettingsUpdatePending.cpp}$
$. \textit{J.J.} \\ \textit{J.mgine/aiComponent/beiConditions/conditionSimpleMood.cpp}$
. J.J. . J.mgine/aiComponent/beiConditions/conditions/conditionTimedDedup.cpp
$. \textit{J.J.} \\ \textit{J.mgine/aiComponent/beiConditions/conditionS/conditionTimerInRange.cpp}$
$. \textit{J.J.} \\ \textit{J.g} \\ \textit{ine} \\ \textit{aiComponent/beiConditions/conditionUserIntent.cpp}$
///engine/aiComponent/timerUtility.cpp
./././engine/block.cpp
.J.J./engine/blockWorld/blockWorld.cpp
.J.J./engine/comms/robotConnectionData.cpp
.J.J.Jengine/components/animationComponent.cpp
///engine/components/battery/batteryComponent.cpp
./.J./engine/components/cubes/cubeCommsComponent.cpp
. J.J.J.engine/components/cubes/cube Connection Coordinator.cpp
///engine/components/cubes/cubeInteractionTracker.cpp
. J.J. J.engine/components/cubes/cubeLights/cubeLightAnimationHelpers.cpp
. J.J.J.engine/components/mics/beatDetectorComponent.cpp
JJJengine/components/pathComponent.cpp
JJJengine/components/powerStateManager.cpp
JJJengine/components/sdkComponent.cpp
.J.J.Jengine/components/variableSnapshot/variableSnapshotComponent.h

File
./././engine/components/visionComponent.cpp
JJ.engine/drivingAnimationHandler.cpp
JJ.engine/faceWorld.cpp
//engine/moodSystem/emotion.cpp
//engine/moodSystem/moodDecayEvaluator.cpp
//-engine/moodSystem/moodManager.cpp
//-engine/moodSystem/staticMoodData.cpp
//engine/navMap/mapComponent.cpp
//-engine/petWorld.cpp
//engine/robot.cpp
//engine/robot.h
//engine/robotDataLoader.cpp
.J.J./engine/vision/imageSaver.cpp
.J.J./engine/vision/visionSystem.cpp
JJ./generated/proto/external_interface/alexa.pb.cc
//generated/proto/external_interface/behavior.pb.cc
//generated/proto/external_interface/cube.pb.cc
//generated/proto/external_interface/messages.pb.cc
//generated/proto/external_interface/nav_map.pb.cc
//generated/proto/external_interface/response_status.pb.cc
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File
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/mnt/devhomes/build/work/83941694d19f355d/anki/victor/cloud/go/src/github.com/anki/sai-token-service/model/token.go
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_cgo_gotypes.go

7.6.1 Signal Essence files

{Am I the only one who things "Signal Essence" sounds like a perfume name?}

File	
	FERNALS/anki-thirdparty/signalEssence/v008/vicos/project/anki_victor/mmif_proj.c
	TERNALS/anki-thirdparty/signalEssence/v008/vicos/project/anki_victor/policy_actions.c
	TERNALS/anki-thirdparty/signalEssence/v008/vicos/project/anki_victor_vad/nfbin_f32_anki.c
	TERNALS/anki-thirdparty/signalEssence/v008/vicos/project/anki_victor_vad/svad.c
	FERNALS/opency/vicos/include/opency2/core/mat.inl.hpp
	lib/aec common.c
	lib/aec_msu.c
	lib/aec_pbfd.c
	lib/aec_stereo.c
	lib/aec_tapered_wts.c
	lib/aec_td.c
	lib/aecmonitor.c
	lib/avepower_i16.c
./././se_1	lib/buffer_composer.c
./././se_1	lib/cl_agc.c
//se_1	lib/cl_agc_i16.c
./././se_1	lib/conv.c
./././se_1	lib/dcremove.c
//se_1	lib/dcremove_f32.c
//se_1	lib/decimate31.c
//se_l	lib/downsampn.c
./././se_l	lib/fdanalyze.c
./././se_l	lib/fdechomodel.c
//se_1	lib/fdemphasis.c
//se_1	lib/fdsearch.c
//se_1	lib/fdsearch_winner.c
./././se_1	lib/float_dft.c
./././se_1	lib/float_dft_fftpack.c
./././se_1	lib/float_dft_pffft.c
./././se_1	lib/frdelay.c
./././se_1	lib/gainest.c
//se_l	lib/highpass_filter_array.c
//se_1	lib/interpn.c
//se_1	lib/leakyave.c
//se_1	lib/lec.c

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.J.J./se_lib/vpower_i16_i32.c .J.J./se_lib/vpowerwithexponent_i16_i32.c .J.J./se_lib/vscale.c .J.J./se_lib/vsub_i16.c .J.J./se_lib/vsum_i32.c	.J.J.Jse_lib/vmovesrcstride_i16.c
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.J.J./se_lib/vscale.c .J.J./se_lib/vsub_i16.c .J.J./se_lib/vsum_i32.c	.J.J.Jse_lib/vpower_i16_i32.c
.J.J./se_lib/vsub_i16.c .J.J./se_lib/vsum_i32.c	.J.J./se_lib/vpowerwithexponent_i16_i32.c
.J.J./se_lib/vsum_i32.c	.J.J.Jse_lib/vscale.c
	.J.J.Jse_lib/vsub_i16.c
.J.J./se_lib/vtrackupavedown.c	.J.J.Jse_lib/vsum_i32.c
	.J.J./se_lib/vtrackupavedown.c

File
.J.J./se_lib/win_fcns.c
.J.J./se_lib/winbufdft.c
.J.J./se_lib/wola.c

7.6.2 Google BreakPad and Minidump

ı	File
	$/src/client/linux/handler/minidump_descriptor.h$
	/src/client/linux/minidump_writer/directory_reader.h
	/src/client/linux/minidump_writer/line_reader.h
	/src/client/linux/minidump_writer/proc_cpuinfo_reader.h
	/src/client/minidump_file_writer-inl.h
	/src/common/linux/elfutils-inl.h

8. Troubleshooting

8.1 Backpack Lights

VECTOR LED SUMMARY

LEDs	Animation	What it means
	The small circular light glows a steady green.	Vector is on.
	The rectangular lights glow green and climb up his Back button.	Charging: Vector is getting more energy. When he's done, his rectangular lights will stop glowing.
	The rectangular lights glow light blue and climb up his Back button 1 then 2 then 3.	Booting: Vector is starting up. When he's done, these rectangular lights will stop glowing light blue.
	The rectangular lights glow solid blue.	Speaking to Vector: After you've said "Hey Vector", Vector is ready to hear what you have to say.
	The rectangular lights will pulse orange continuously.	Connection . Vector can't connect to Wi-Fi. Connect with the Vector app to figure out what's happening.
	The rectangular red light on the bottom of his backpack will pulse	Low battery: Place Vector on his charger.

Things that this could do:

- Diagram of the backpack lights
- Show the FAC lights
- Changes to the backpack lights in the custom software

See also DDL.

9. Vector enhancement proposals

9.1 Vector Enhancement Proposals

Memos, cheekily named for Python's memo system. At the moment, I see these as proposals for changes to the software and files on a Vector. (Proposals for changes to the site or documentation, or build tools, etc should go elsewhere.)

This would be relevant for changes, esp substantial changes, that you might like many people to adopt.

File Format:

- I'm going to try to use markdown most often, but
- PDF/HTML export for normal human readers

Common elements, to make it easier to read and management them:

The first part is the markdown front matter: it begins and ends with --- and the lines inside contain YAML. This lets other tools extract the basics.

```
title: VEP123 - The name of the VEP (only a few words)
summary: An ptional description of the proposal, if the title is too short
authors:
- Author Name
date: 2022-07-10
```

The title starts with "VEP" and a unique (serial) number. It is followed by a brief description or topic of the proposal. The other fields are self explanatory, and helps track the info

Other outline, organization:

- Description of the changes
- · Some Design decisions
- Documentation
- Cavaets
- Status
- References
- Change history synopsis (this is for people)

9.2 VEP1 - Update-engine changes

Summary: Update-engine changes to make for unsigned, incremental updates; and to reduce the number of partitions modified.

Authors: Randall Maas

9.2.1 Description of the changes

Motivation: Building a new, experimental development release is not possible with an stock update-engine:

- 1. We can't create an OTA file for unmodified production, development and OSKR bots, as it needs to be signed in order for the update-engine to apply it.
- 2. The OTA update is very "heavy weight" -- it needs to update the boot and system files systems (with a 200+MB file!) just to change a couple of files.

This enhancement changes the following to the update engine:

- remove signing check of the manifest, update files
- Allows replacing individual partitions, esp just the system file system; usually it replaces several at a time
- Allows using tar to update the contents of the system file system
- This is not recommended since it doesn't get the permissions right

9.2.2 Documentation

· none at this time

9.2.3 Cavaets

- the tar based updating of the system file system doesn't always work as expected, since the busybox tar doesn't preserve permissions
- it is tricky to create a tar file
- there is no undo for a partial update
- this probably doesn't disable delta updates properly, so if a delta update were to be issued, we'd need a way to make sure it doesn't mess up the FS.

9.2.4 Status

- it works well (except the system fs file-only changes), I believe that Wire has used this or a modified version
- I am considering other changes to support package-based updates to the file system, to better address the above issues.

9.2.5 References

9.2.6 Change history synopsis

9.3 VEP2 - Package management for modules on Vector

Summary: Supports installing and uninstalling packages/modules on Vector

Authors: Randall Maas

9.3.1 Description of the changes

Motivation: We needed a way to package changes to a few files on an already deployed system, to ensure that the permissions are correct on the files (usually executable), and some restrictions/protections from screwing up system files. (Ie, don't force it to be unbootable)

This is a package manager that does those, and adds in a few extras:

- It allows modifying parts of a file, usually the version identifier of the system, so we know what we're working with.
- · Lists the installed packages
- Can uninstall packages
- Can set the premissions for the files.

9.3.2 Some Design decisions:

- The tool had to be small, and not hard to deploy
- The tool can't be compiled (we don't know how)
- It had to be based on tools already on Vector: python 2.7, and busybox based utils. Busybox supplies the shell, and tar... except tar doesn't support preserving permissions.
- It is preferred to separate out the package manager from the update-engine as much as possible, to make int more understandable and support testing.

It just installs the packages

This tool doesn't do everything that the other managers do:

- It doesn't check dependencies
- It doesn't download files
- It has minimal the pre-flight, post-flight scripts that are run.

The package download is handled by either the update-engine (and its line of control), or by scp command. The lack of dependency check is a benefit, as its hard to maintain, and it is rarely used correctly: maintainers tend to choose a dependency of "the latest version" (as of when the package was), negating its use.

9.3.3 Documentation

The documentation of the tool is included as part of it's tgz. This is a quick overview.

When a package is installed it creates another package taking a snapshot of those files already there. When the package is uninstalled this 2nd package is used to replace the newer files with the older ones. It doesn't delete any files that were added since or by the first package, so some extra stuff can accumulate, but that is far safer.

Creating a package. To create a package, lets call it demo, requires setting up the files sytem with the files, and the package manifest. The manifest says, among other things:

- 1. The package name, version, and other helpful paperwork info.
- 2. where to get the files from locally, and where they should be placed into filesystem deployed when deployed on a Vector.
- 3. The path to any files that should be modifed, and how. This is used to change the reported version string.
- 4. The permissions to set the files to

I've attached a really simple demo to demonstrate. To create a package unzip them, and then:

./vector-pkg.py create -pkg=demo

That will create .vpkg file — a gzip'd tar file with a specific layout. From here everything has to be on a Vector.

Installation. To install the vpkg:

./vector-pkg.py install -pkg=demo-1.vpkg

Uninstall. To uninstall the vpkg later

./vector-pkg.py uninstall -pkg=demo-1

9.3.4 Cavaets

9.3.5 Status

Not tested by others yet. Once the bugs are shaken out, the update-engine can be tweaked. When the update-engine gets a URL with ".vpkg" (such as from the BLE app) at the end, it downloads it, and then pass it to the package manager.

9.3.6 References

9.3.7 Change history synopsis

9.4 VEP3 - Developer configurations for robot

Summary: Change robot configurations for

This is a stub proposal for a VPKG with many common configuration settlings for a Developer-tinkering bots.

- configure many the servers to use to main production server
- configure servers to use local servers (logging)
- Customize: CPU, Heat, Display settings

Not sure if these can be downloaded via Bluetooth LE

- server configuration
- local preferences

9.4.1 References

9.4.2 Change history synopsis

9.5 VEP4 - Logging

Summary: Changes to the logging scripts, configuration to local servers. This is to modify the servers to use for the logging, crash dumps, and similar. Events/logs will no longer be sent to AWS, or backtrace.io.

Authors: Randall Maas

This a draft proposal (to be filled in) on how to modify Vector config files and scripts to send logging and crash dumps to a server of our choosing.

- Logging
- Trace information
- Server
- Settings
- DAS optin/optout

Replace /anki/bin/vic-log-upload - moving aside, /anki/bin/vic-log-upload since it just does AWS, S3:// - put in something that can contact our local server

Files:

- server_config.json
- log uploader

9.5.1 References

9.5.2 Change history synopsis