**Abstract:**

I chatter bot sono programmi che emulano una conversazione umana e che possono dimostrare un comportamento molto simile a quello umano all’interno di un dominio di conoscenza ben definito. **AIML, Artificial Intelligence Markup Language**, sviluppato dalla comunità di software libero Alicebot (applicazione chat-box basata sul software gratuito ALICE “Artificial Linguistic Internet Computer Entity) e dal dott. Richard S. Wallace nel periodo 1995-2000. È un linguaggio esteso dall’XML per descrivere basi della conoscenza.

**INTRODUZIONE**:

I primi tentativi di creare degli agenti conversazionali risalgono agli anni ’60 -’70 con ELIZA e PARRY. Il loro funzionamento si basa sul riconoscimento di parole o frasi chiave date in input e su una serie di risposte pre-preparate e pre-programmate corrispondenti in input che possono far sembrare intelligente l’andamento della conversazione.

AIML è stato progettato per la prima volta alla fine degli anni '90, durante l'esplosione del World Wide Web.

Attualmente le interfacce utente multi-modali (Pirrone & Cannella, 2008) possono includere un interprete in linguaggio pseudo-naturale che emula una conversazione umana (client) allo scopo di rendere familiare e confortevole per l’utente l’interazione con strumenti di information retrieval. La conversazione è supportata da software denominati chatter bot alcuni di essi hanno una base di conoscenza descritta in AIML e sono costituiti da un interprete AIML (AIML, 2005). Per questo tipo di agenti conversazionali la base di conoscenza è costituita da coppie (pattern, template), che possono essere connesse semanticamente e/o ricorsivamente dal costrutto SRAI (Symbolic Reduction in AIML).

A.L.I.C.E. è l’implementazione più conosciuta di un chatter bot generalista

di lingua inglese, Una base di conoscenza può essere rappresentata tramite un grafo del tipo illustrato in figura:

![Immagine che contiene testo, mappa

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdSRVpJQSBESSBNQVJJTk8AAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAMxNQAAkpIAAgAAAAMxNQAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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YnKCCQoWFxgZGiUmJygpKjQ1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoOEhYaHiImKkpOUlZaXmJmaoqOkpaanqKmqsrO0tba3uLm6wsPExcbHyMnK0tPU1dbX2Nna4eLj5OXm5+jp6vHy8/T19vf4+fr/xAAfAQADAQEBAQEBAQEBAAAAAAAAAQIDBAUGBwgJCgv/xAC1EQACAQIEBAMEBwUEBAABAncAAQIDEQQFITEGEkFRB2FxEyIygQgUQpGhscEJIzNS8BVictEKFiQ04SXxFxgZGiYnKCkqNTY3ODk6Q0RFRkdISUpTVFVWV1hZWmNkZWZnaGlqc3R1dnd4eXqCg4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2dri4+Tl5ufo6ery8/T19vf4+fr/2gAMAwEAAhEDEQA/APpGiiqOtQ39xpE8WkTrb3jAeVIw4U5H17ZFAF6isR4NeFrbGOaJ5fPYzIz7f3bAgANtPKkg9OcVDJa+ImiREuEB3zln80KQPMLRD7hyNpCnoRjv1oA6Gis/RY9SisnGsyRyTtNIymM5AQsSo6DoMCp73ULXToPNvJliUnCgnlz6AdSfYUAWaK5C81XVozCqu8Ml3qEMvlyABra18yNNpwDy7Z4POGbutdfWkqbjBTfUVwooorMYUUUUAFFFFABRRRQAUVn2FzMt7cWN426VCZYnIx5kZP8ANTwf+A+taFVKLi7AFFFZ8VxLd6y6QuVtrQbZMf8ALSQj7v0A5+pHvRGLlfyA0KKKpw3Yn1a5t43yLdFDr6MeR+hFCi3e3QC5RRRUgFFFFABRRVDSLiWa0aK7YNc20jQyEEEnB+VjjpuXDY96pRbi5dgL9FFc34Y1W71LWvECXMu+3t7tY7ZcD5V28/rmrhSlOEpraP8AnYVzpKKoabcyXc99KWJgW4MUIxxhAFY/99hx+FX6iUXF2YwoooqQCiiigAooqG8uo7GzkuJydkYyQBkk9gB3JPFNJt2QE1Fc7qup3uleHHubh9t5dSBYkAyIi3QdOw7mrllevZeH1vdWnLFhvzjJIPCqAAMk8cYzk4rd4eSjzedvUVzWoqlp63r+Zc37eWZcbLYYIhUep7sc89ugHTJu1jKPK7XGFFFFSAUUUUAFFFFABRRRQAUUUUAFFFYS3Wo3thdX2nSLLtugIIBhd0cb7ZFyf4mIcDt93pyapRbi5dgN2iqlhqdpqURe0lDMuBJGeHiP91lPKn2NSXyXEljKtm4jnK/Ix7GpAnornEs/Evmy7r2MRzSpImSMwKCNyfd+bcM89s1sWcV0dPsxfSlbmNFM/lkEO23BB46ZOeMdBQBborEvodda7u/sksYgYKbchwCp4DAgr7E5z3qgLPxduT/S4NqrJklhlmIfZ/D2JT8qAOqorlpbHxYftYW+h+eGb7OyyAeXIWl8vIKcja8Y68eX3zz0io7RRb3ZHXBbbj5jjkH2oAloorN1PVktc2tp/pGoyDEVsh+YZBwzf3V4+8eO3JIBANKism6uLmGO20y3maW+ljG+cp9xRw0h7AnsO59cGtVQVQAksQMZPercWopvqAtFc7retC0uJrW1uy1xPCY4o4YzM0M38JKoCQDnJJGOK0dN1mG/xDKptb5VzLZykCROnb+Ic/eGRU8skrtFSja3maNFFRxTxzbvLbO04PGKRJJRRRQAVW1C7extDNFZ3F6wIHlW4Xcff5iB+tWaKAMc63efZXmGhXy7FzskMYY/kxpkGo6zqAWSzs7GO2cZWdrlpD+KBVx+dbdZVxZy2Fw97pi5DndcWw6ScY3L6NjH1x9K0goyVtmIDYatcSqbnV/JQdY7SBVDfUvuP5EUiafpmhQPeFGeVAczzyNLKc/whmJbn0q/bXtvd2YuYZAYiMljxj1z6Vn22dZvFu3yLKE/uF/56N/fPt6fnTjT1bnst/8AICndWsi6Wt3djF1dXtq8g/uKJk2p1PQfqWPeujrP1pd9lCP+nqA/lKpqe+1C206EPcvjccIqjLOfQDvVVJucE33f6AtyzRWR9p1m9B+y2sVlHu4e5O5mX1CjofrQ+i3FywN5q94wXkCBhD+e3rWAzXpjTRr96RB9WFZlz4a0u9TbfwG6GMHznLZpsHhPQbcAQaXboB0wKANQXMB6TRn/AIGKerBhlSCPY1nP4f0mVcPYQsP92qv/AAhvh4T+culwJKP41yCP1oA3KKy5tBidVEN5e2wX7ohuGUfl3pGtNYt9pttQiuQDylzFjj6rzn60AO1qNo4Y9RgQtPYt5mFXLPH/ABoPXK8gf3gvpWjG6yxq8ZDKwyCD1FZcet+TKsOr2rWLuxVHY7o29PmHQn0NN0uaPTLO7tJiscNg5CY7REbkA+gIX8K2Xvwt1X5P/g/mLqWdVvHt4kgtfmu7g7Ih6erH2FT2NmlhZR28WSFHLHqzHkk/U5NVNLgkmkfUrxNs0wxGh58qPsPqeprToqNRXs18/X/gAu4Vl6IqSm8v1i2Ndzk7v76r8qt+QFS6xcvb6eUgz9ouGEMIU4O5u4+gy34VatbdLS0igjGFjUKBQvdpt9/yX9IOpLRRRWIwooooAKyziy8R5AVY7+PnAxmROMn1JUgf8ArUrO1uJ204zw7RLasJ0LDONv3vxK7h+Na0vi5X10/r5iZoMwVSx6AZNcZ4WuItPh1+7lYJFHIZWY9l+Zs/lXUXU4l0WeeI5DW7Mp/4DXGaHh9Mkt5F3m7ls43Q/wASlVLj/vndXbhYXozT7r8yZbo7PSLWSz0e1guH8ydYx50mMb5Dy7fixJ/GrlFFefKTlJyfUsKKKKkAooooAKyE/wCJxqnmnmxs3IjGOJZRwW6dF5A9TnrxUmp3Ek8y6ZZOUnmXMsq/8sY+5+p6D357VetreKztY7e2QRxRKFRR0AFbr93Hm6vb07/5f8MLc43xDINW8eWems7JbWMJmnOMr83UMe3GMH1robGN9Uul1G5UrBGf9EhPp/z0Pue3oPrXGeF9uva5rerSTf6BJdkPKxwGjQ4VPp3Ndk+uiRHXR7Ka+dOBt+SMn03niu7Gv2PLRW6VvS+r+9/gTHXU16KyWGu3EibWtLOIr8wwXkU/+g0SaRd3I23Os3RX/pgBEfzWvKLNajp1rNi0OFIvLkubydT1864Zs1Un8F+Hrpg1zpkUxBzl8n+tAG0Zoh1kQfVhTftVv/z3j/77FZsfhTQov9XpkC/hU/8AYOl7dv2GHHptoAuieI9JUP0YU8HPSsmTwtocv+s02BvwqCHwV4dt5C9vpcMTE5JTI/rQBu0VmvokBi8uKe6gX/pjOy1FFo11bcWusXYH/TfEx/NqANeislU123mP720u4AP4lKSE/hxTU114FX+2LCaxJOC3+sjH/AhQBrkZUj2rL8N7v7EVXXYyzzrj6SuM/j1rShmjuIllgkWRG6MpyDVPSzJuvQ4wguW8v/d2r/XNaxf7uS9H+f8AmLqLqGjWWpEPcxFZgMLPC5jlUZzgOpDAe2agGn6pbylrTVzKh4EV5CrhfoV2sfxJrVoJAGTwBWQzIFxr8U4R7CyuIu8qXLRn/vgq386i/wCEimMkyQaPeXQhO1ntmRlLdwCzLkjv/wDrqZ5pNZkaGzkaKzU4luF4Mn+yh/rWlb28VpbxwW0axxRqFRFHAArWUVCPvb/kIwx4out2G8K64PfZBj/0bQvie7ZsDwrrYHqywAf+ja6CishmdHqF7PFuj0qWJuyzyKv8t1Qxy+IJ2O+2sLJQeCZGnz+ACYrXooAyDo95drINS1e5eOQYMNriBV+jL84/76qysNhoWnzSxQpbwqN8hRfmc46nuzH8zV6uV8Q6p5+tw6ZBIiLbAXNzK/3YucISO/OSB/eC1tRp+0nbotX6CbsXLa6NkzvNC1xq14Q728ZBMS/wqW7KB37nJx1qz/Zt1fjdq9ywQkH7LbMUQfVh8zfng+lUtOkuFh2aLYMUdSxvrxseY3qR94g9c1cOm6lcxYu9VePd95bZAmPo3WrnWXNeH3/5dvzCxZl0q1OnNaW0UdsgO+PykChHByGA6ZBwagC2er2oTVLeIzwMVdXHMb4+8p6jIOQRzg0JoFt5HlXE11dJ38+dnqtH4K8ORStKmk24kc5ZsHJrmd3LmZpze5ysX+z3tFjTTdemiSPpFcus6t9WfLn/AL6rTsTcmNvtc9vM2eGgQqP1Y1XXw/pSLtWwhA9NtWbPT7SwVlsoEhVzlgg6mggsUUUUAFFFFABQTgZPApk00VvC808ixxoCzO5wFHqTWTtm8QYMivBpf9xhh7of7Q/hT26nvgZB0hDm1ei/r8RXMu6Rr64kvtOVm0kkG5VD/wAfXqy+3r/e/n1Nu8UlvG9vjyio2YGBinqqooVAFUDAAHSsnH9i6gNvGn3LYI4xBIf5Kf0PpzW0p+2XKum3n/wf+G7C2LmoruhhH/TeM/kwNZttmPxfenUiu+RV/s8n/nkEXeB2zv3E98FfatK+bDWq/wB6cD9Cf6U+8sbbUIPJvYVmTOQG6qexB6g+4rB/CiixWVPorTeJbfVvtkyLDEYzbA/I5Pc800adqllj+ztT8+Pdkw36byF/uq64I+rbjTjqWqQSBbnRJJATw1ncJIB9d+zH4ZqAMHUW1oatfXMdtM9pfWk1sixhy8TRg+W23HG4lznPPy1U1C11rfe/2fHemC8tFRwQwMTqg+Zc85PTjuK6W68T2lh/x/WuoQnuEspJsf8AfsNUkPiXTJ1BSScA/wDPS0lT+aigDJ8JPd2stxBqFveh5Wj2NLE5UYjGfmPA5z+NWJtAuLDSPEJtry4up9QjleFGY5iYocKvPqf5VpvrunoMmdj/ALsTn+QqjceM9HtmxIb48Ekpp1wygD1YJgfiaNwM1bvxKqGFY5JP3Z8mUwFNxyww3XbgbcE9a6PSDOdHtjd+Z5+weZ5gw2e+arDXHmtknsdK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L'obiettivo principale del linguaggio AIML era la semplicità. AIML è motivato da due osservazioni:

1. La creazione di un chatbot con capacità di conversazione, in questo caso è richiesta la scrittura di una quantità significativa di contenuto, sotto forma di risposte alle domande dell’utente.
2. Scrivere chatbot richiede un mix di design conversazionale (o letterario) e capacità di programmazione.

**TIPI DI CHAT BOT**

1. Basati su regole:

A un chatbot basato su regole viene fornito un elenco di risposte impostate per una serie di query per le quali un utente può utilizzare il chatbot. Ad esempio, se un utente pone la domanda X, il chatbot risponderà a Y.

In un chatbot basato su regole, se una domanda viene posta in un modo diverso o se l'utente pone una domanda a cui il chatbot non è stato programmato per rispondere e pone lo standard "scusa, non ti ho capito", l'esperienza di il chatbot soffrirà e l'utente potrebbe non voler tornare per cercare l'aiuto di un chatbot per le sue domande.

1. Basati sull’AI:

imparano in modo indipendente e possono anche adattare il modo in cui rispondono in base alle interazioni precedenti. Sebbene i robot basati sull'intelligenza artificiale imparino a rispondere alla maggior parte delle query inviate da un utente nel tempo, un chatbot deve essere "conversazionale" per portare l'esperienza di chat ad un livello superiore per simulare il comportamento con un essere umano come partner di conversazione convincente.

I sistemi di conversazione, tuttavia, non dovrebbero essere percepiti come una nuova direzione per prodotti o applicazioni tecniche interattivi, ma semplicemente come il livello successivo nel consentire all'utente di trovare informazioni in modo facile ed efficiente o completare i suoi compiti.

In un sistema di conversazione, la nostra scelta di parole mentre rispondiamo alle esigenze dell'utente influenzerà il modo in cui le persone percepiscono le esperienze dei clienti che progettiamo per loro perché non ci sarebbero segnali visivi di accompagnamento da utilizzare come guida. Pertanto, ha senso guardare a "Conversation Design" (è un linguaggio di progettazione basato su una conversazione umana per consentire l'interazione con i dispositivi, riguarda l'insegnamento di computer / dispositivi fluenti nella conversazione umana e nelle sue convenzioni.) per creare questo insieme di esperienze dei clienti che dipendono completamente da un insieme di parole come principale e unico mezzo di interazione.

**XML E AIML**

Parallelamente negli anni '90, XML è emerso come standard ancora ampiamente accettato oggi nonostante molti formati concorrenti. La rappresentazione basata su tag XML è facile da comprendere senza una sofisticata conoscenza dell'informatica. Gli autori di AIML hanno trovato utili molti strumenti XML, come DTD, correttori di sintassi ed editor durante la creazione di bot.   
Pertanto, mentre AIML rimane agganciato all’ XML ma non dipende dalla sintassi XML.

AIML può essere scritto in diversi formati, tra cui le espressioni S di Lisp , JSON, YAML o un formato di testo strutturato.

Le modifiche apportate in AIML 2.0 inevitabilmente compromette la sua semplicità originale. L'aggiunta di più tag e funzionalità rende la lingua più difficile da comprendere. AIML 2.0 è un tentativo di affrontare le carenze riscontrate dai programmatori di bot negli ultimi due decenni, continuando a perseguire l'obiettivo originale della semplicità. Queste specifiche AIML 2.0 sono ampiamente compatibili con le versioni precedenti di AIML 1.0 e degli standard precedenti. Le nuove funzionalità si basano sul linguaggio originale in modo tale che i concetti possano essere organizzati pedagogicamente in livelli principiante, intermedio e avanzato.

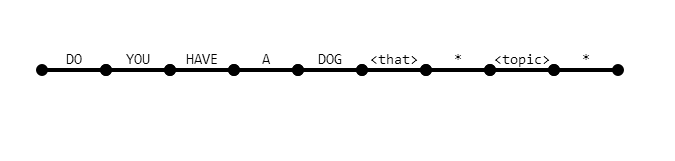
**PANORAMICA DEL SISTEMA AIML**

#### CC

**CORRISPONDENZA DEL MODELLO AIML**

Ogni categoria AIML è specificata in modo univoco da un modello di input. Se non vengono specificati si presume che abbiano un valore predefinito \*. Un percorso di modello è definito come una sequenza collegata di nodi, in cui i nodi sono collegati da bordi etichettati con le parole. La sequenza di parole in un percorso di modello è specificata come le parole dal modello di input, seguite dal simbolo, dalle parole in quel modello, seguite dalle parole nel modello di argomento.   
La Figura 1 mostra il percorso del motivo per una categoria

**<category>   
<pattern>DO YOU HAVE A DOG</pattern>   
<template>Can your dog be my pet too?</template>   
</category>**



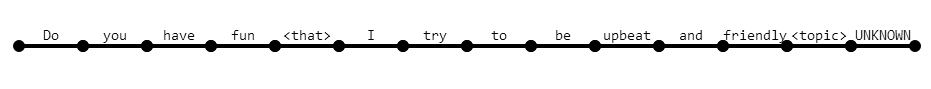
**Figura 1.***Percorso del modello per una categoria.*

L’interprete AIML crea un oggetto chiamato Graphmaster leggendo i file AIML, costruendo un percorso modello per ogni categoria e inserendo il percorso in un grafico diretto e ordinato. Alla fine di ogni percorso, Graphmaster contiene un collegamento al modello AIML per la categoria associata.

Dato un input specifico per il bot, l'interprete AIML crea un percorso di input, simile a un percorso di pattern, contenente l'input normalizzato, l'ultima risposta del bot (il valore di), anch'esso normalizzato, e l'argomento normalizzato. La Figura 3 illustra un esempio di un percorso di input risultante dal frammento di conversazione:

**Robot** : cerco di essere ottimista e amichevole.

**Umano** : ti diverti?

Ai fini di questo esempio, l'argomento è "sconosciuto".   


**Figura 3.***Percorso di input con <that> e <topic>*

L’algoritmo di corrispondenza del modello AIML cerca nel Graphmaster una corrispondenza del percorso di input. La ricerca procede in una sequenza in profondità. Quando la ricerca in un ramo del grafico non riesce a trovare una corrispondenza, l'algoritmo di ricerca torna all'ultimo nodo con rami inesplorati e cerca quelli; quindi l'interprete restituirà una stringa predefinita come "Non ho una risposta per questo", specificata dal botmaster.

**TAG DI BASE:**

* **<aiml>:** definisce l'inizio e la fine di un documento AIML
* **<category>:** definisce la conoscenza in una base di conoscenza.
* **<pattern>:** definisce il modello in modo che corrisponda a ciò che un utente può inserire.
* **<template>:** definisce la risposta di un Alicebot all'input dell'utente.

![Immagine che contiene testo, screenshot

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD+RXhpZgAATU0AKgAAAAgABAE7AAIAAAARAAAISodpAAQAAAABAAAIXJydAAEAAAAiAAAQ1OocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEdSRVpJQSBESSBNQVJJTk8AAAAFkAMAAgAAABQAABCqkAQAAgAAABQAABC+kpEAAgAAAAM5NgAAkpIAAgAAAAM5NgAA6hwABwAACAwAAAieAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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igAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKK5lb2413VpdOurmTR0iyfsaMUurleMt5nQJzjMRY52/OpytXZ59ZvL+ePR5rG3hs3Ebi6geVpm2q2AVddgwwGSHzk8ccnS4GzRXM6xrOo2MNnD9stoL8wh7qGDSbnUQCeMgRMrIuQwBYc446Gkv7/VtT8N6ZfaVcwafJPPD5gmtpJM5kUYxvjIHqDyRxxR1sD0OnorC1LUdS0TQfNvp4Lq8kmESS2unzFF3dCYVd3bHJwCM9OOtUNO8UX5hvRdwPdNBAZop/wCy7nT42OceWwmDdyDuDHjPyjHzC12A6yiufjuPENtrFlZ31zps0VwXd5IbV4yFUD5AplbnJB35xwRt6Gmx6lrP2WPWHewOmyhXFoIXEyxtjB83eQWwc7dg/u5/iJuDOiorAurjxC2vT2NhNpqwNCk0c01u7GAZIIKiQeYSRxgpj/a6F82pahYeIbWHUZ7NNOuLZyGELBhOg3MN5fGCoZgNvRTzxyrq1w62NyiuajOoz+HotW1TV4NNuYg8qzCIx24iPKiaJ3IPABJ3Kw5AYc51NE1K41OyM11ZPakHCsc7Jh/eQMA4H+8q+2RglgaNFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAVr7TbTU4kjvoFlEbh425DRsOjKw5VuTyCDVXUPD1hqdx59x9qil27Wa1vZrcuB03eW67sc4znGT61p0UAZNx4X0qfydsM1qsMYiRLK6ltlKDopWJlDAZOAc4yfU0+Pw7pcWi/2THbstjnckQmf92c7hsbOUwQCu0jbgYxitOqOpavbaZsSXfLczZ8m1gXfLMRj7q+nIyxwoyMkDmgCKHw5pkGnz2awSMlwwaWSWeSSV2GNrGVmL7lwNp3ZXAxjAosvD2nWPmlEnuGlQxs17dS3R2HqoMrMQDxkDg4GelVrjWrzSdPN/rdnthkmSNYbP8AevAGO0FySN5JKjaikgnA3das2OtNdTtb3OmXthcbDJHDc+WTKowCVZHZepAwSDz0xzQHQytE8OXFpri311bRQLBG6RH+0576RwxHG6ZR5agL91cgkjpt5018N6auoC8C3RcSeYImvZjAG65EJfyxzyPl4PPXml0/W3u737JeaTfabM0ZkjW6MTCRQQGwYncDG5eCQTnjODippXiHUL+/mgn8O6hbxpcGLz2kttsY2g/NiYsTz/CD1HvT6g9iefwtp1xqT38kmorcORuMeqXMa8cgbFkCge2MVB4jsNS1WS3tItP0+508TRyyvcXjxyfK2SoURMMdP4uQSMDOaG8Q6guv3Vgnh3UJ4YVjKzRPbgHcWBY7pgdvy8cZ4OR0q3qGtSWl0bez0m+1N0UNL9lMIEWemTJImScHgZ98ZGUugdy1c6ZaXl3b3N1CJZLYloQ7Eqjf3gudu4dmxkZOCMmrVY994ltbHTrbUPs13PaTyLG0kUXMJLBQGjJD53HbtVS2eMUyfxL9jsFu77R9Rto2uFgwwiZhuICvhZCSCxC4GWyfu0eQG3RWVa6rcalDcww2kum6hCqt5N+qvgNnax8tyCDtYcNkY5HqWWuLJdJY6pAdO1B8hIZHDJPgEkxPwHHBOOGA5ZVyKANWiiuMuvFslql/ZyeIdBi1aO8EVvbSR4fYSAAY/O3MxB4Ix9KOtg6XOzorktS1vUbbxQ2ljxBodk0ixG1t7mxeSaUuSuABOu7BXqBwDz0zVq7n8TKNJWO70y1lugsVxHLYvLsl8tnYqVmXj5cAc/U01qB0dFZPiCbVLawSbSLmzhdZFV/tVq0wYMwXjbImMZz3qS9u73TtHjYpFe37lIlCAwxvIxxnksVUdTyxAB6mkBpUVj2dxq1nfw2utS2d0tyG8qe0gaAIyjOwozvnIBO4HtjHetgnAyeBQAUVirrNxqsgTw7Ektvn59RnB8jH/TMDBlPTkEJz94kFasa1NJ5EVjbOyXF6/lK6HDRp1dwe2Fzg+pX1oA0qKxbvxC1pqkumwaNqN5cRRpIogMOJEbI3BnkUDBGCGwSegIyRO+ss+mJd2GmXt8zOUe3i8tJIyMht3mOo4IxwT6jI5oDyNOisPUPEM0Phi41Oy0y5mnhDK9q3lh4mHXdlwpA77WOe2atW2qXc9lcTy6FqFtJEMpbyvbl5vZSspUf8CIo6XA0qKw/D+u3mrWUEt9ot5YK9uJTcSvB5THA4UJKzDrnkDgc0618SCeaHztK1C1tLghYLyZY/LkLfd4Vy6bu29V5wDgkAuwG1RWJc+JDb6pPpyaNqVxcxqskawrEROhyNwYyBVAwfvlSewNNufE5g1CWxh0XU7q5jiSbZCIuY2z82WkAGCCuCQxIOAQCaW47dDdorKm1G7mtLTUtGhj1Cyli8xoQfLldWAKshYhc4/hbbnOdwxg2tO1Wz1WFnspdxjbbLG6lJImxna6HDKcEHBA4IPegRbooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACq1/p9pqdqbe/gWaLIYA8FWHRlI5Vh1DDBB5BqzRQByuv29xp3hs20l9qN0pu4DBLBZvcXESrKrndsVtwAU8svIGCWJybUek6lqVnJLqmpxNLLbtHbva2UlqYg+CSytIzZ4HdSOR16dBRR0sByeieC30bXIdShbRbYrG8MsWnaOLYSo209fMY7gVHJJGMjbnmtM6TqiapNJaavHBYzzCaSL7IGmBwAVWQttCnaOqE8nBHBGzRQBj3+lanJqcl1pWqxWSzxJFMstp5zAKWw0Z3qFb5z94OOBx1Bztc8FQ6rqIvkh0eedo1jlbVtJW7Lbc4KkOhUnPI5HAwBznqaKB3Odm8PX8WjWOn6PfafZpbSCVg2m5QsHDgIiSIEXORjk475yTZvNN1i80u2hbUrFbuO4SaWYWD+W4VtwUJ52VPA53Hvxzxs0U7/wCZNlaxjHStVXW7++g1K0SO5gjiijNkxaIoSQxbzMN95+No/h9Dm1pujW2mtJKhkuLuYATXdw2+WXHOCegXJJCqAoycAZq/RSGFc++h6w+k3tqdVsfOubjzkl+wPtRcglSvnZJ465H0roKKVgOeudH16TVJ7q21TSlSVYgI7jS5JdpTJByJ153MT0449Ml15pPiG4OntFrWnrJaHe7S6Y7+ZJtZScCZcLh+F5PHU1v0UwObm0HXJbGeMaxp63FzcrPNJ/ZrlPlCBVVfPyP9WMksc56CpV0HUrp7iTWNVgeZ441gksbMwGFkYsG+eSQMckcHjjkHNb9FHmHkZNjpmofbUu9b1CG7lhVlhS1tjBGu7GWKl3JbjGcgAE8d61qKKAMqbQkTUDf6VO1hcu26cIuYrj18yPoWx/GMNwBkgYqxDZSf2xcX1yVb5BDbqpzsTqxPuW6+yrV2igDlb+a/fxtJFpVzNaSm1ji3XGkzT2shBdz867AGAIwd+PmIwTjD9T8JSajZ2ySz2FzLGzyTpqFgbi3ldyCXEXmLgjGFJZsKSOc5rp6KOg763Od0vws2n+Hb7RzdQCC5MhiNpZrAIN45AUEqQCTjgcYzuOSdHTbXVYpJJNX1OG7LKFSO2tPIjX/awWdix/3sYA4zknRooEYmm6NqVoEtrvVYp9OhQxxW8dp5buuMASOWbdgf3QmT+VY9j8Pbax1C3kjt9ASC2lV43h0ONbrCnK5mLlc8DLBAeuNpwR2dFC0d0G5hvpmvDXpr631XTkgkVI/JfTZGYIrMcbxOBu+Y87cdOKnOnamutX17Ff2gintlhhiazYtGy5IZm8wbhl2yAF7cjHOrRR0sO+tzn7Hw7fQaHp+lXWrk21rCIpTZwtbvOAML8+9igx12kEnBDAZB2rS0t7C1jtrKCO3gjGEiiUKqj2Aqaim23qIKKKKQBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFQm9tQ06m5h3WwDTjzBmIEZBb0455qbr0oAKKKKACiiqV5q1rYXdtb3Pnh7lgkbJbSOgJIADOqlUySPvEZoAu0UU2SRIY2kldURRlmY4A/GgB1FFBIVSWIAAySe1ABRTIJ4rq3jntpUmhlUPHJGwZXUjIII4IPrT6ACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKyPENvqlxaqNLlIjB/fwxOIppV7hJTkKcZHQEkjDpjNa9FA07HLXFvpmo+B9RsdMtri08uGQyWkZkgnSXBPzbSGYsec5IfOcsDkwWl7pg0TUh4M1KfU737KXB/tCa8WNgDgbnMgRuc7cZOPunFdhRRqLt5HmmmatAbxo01jT1s3hl+2i38U3N86IEJ3/MgMODj596DnByduCK7tYtLS6XxLdSsmmwX8ZfUyRJIGKySHDfMowAU+4O65Oa9Lop/1+f8AXyB6nAi70P7dqCaj4nvLWRLknT1OpyR5DIrgxgticbm4B3qOFCgcHV1vxDp1hpmmw69qljZX7SWsssM9ykbD94u5sE9AQeenBrX0zSJNOu7uZtTvLtbqQyGKdYgsZP8Ad2Ip6ADknp681pUlol8vwF3v5/icf4r17TZbOx8u9tDBcbpYrt9ek06BwOMCaLJdufu4xgE5GBmrBNHr/wANbsXdzNJJZvMri2vZi8YRm2qzgI7/ACbT84ywwxyTmu6oo6NDOPF/p6+H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zfJHvmupgPPu5zulmxn7zenJwowozwAOKvUVztj4qt4ojBrNyrXUU8sU01tZyiCPbIygu3zLFkAH52HXPSgOlzoqKzdQ8QafptysFy1w8pXcy29pLP5anoXMatsBwcFsZwfQ1X1PxTZaZPYIY7q5jvcsktpaTXC7dpYEGNGBzjpnODnpQBtUVDaXUd7ax3EKyqkgyBNC8Tj6o4DD8RTri4itbeSe4kWOKNSzux4UDvRsBJRWbp3iDT9UuHt7VrhJ0TzGhubSWBwucbtsiqcZ4B6HB9DTdG1FdSlv5Yrm4kjWcKsNxZPbNANi/Lh1BYE5bdj+LHagDUorMtp9QXX7i2u5raW2aISwCKBkdBuxhmLsG+oC0XU+oW+vWSLNbGwuWaMxGBvNDBGbd5m/GPlxjZ+NC1Vwehp0VSOr2g1saSTN9saEzBfs8mwoDjPmbdnXtnPNVX1+C48O6hqWl73+yJMB58Ekf7yMHIwwUkAjGR6Hmk2krjSu7GvRUVpK01nDLJje8as20YGSKlqmrOxKd1cKKKKQwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiqtlqdpqLTCxmE6wvseRASm7oQG6MQQQQCcHg4NEF79o1G6t44/3dsFVpd3VyMlcewKnP+1QBarBjTxCPEj3Mmn6YLNlEO9dQkMgQMx3bfIxnB+7u/Gtq3uIrq3SeBt8cg3K2CMj8ako63DpYK5jXtF1fUdU3W5ElqUCoRq9zZmA/wAR2Qj972PzMPQY5J6eik1cDj4NF8Qf2WLKe201QulfYxIl7I2ZBwpwYhhTxk5JHoe+3pVrqEOpX899DbRpdeVIPJnZyriNVZeUXgFeG756CptY1NtIsTdiwubyNMmUWxjBjUAksd7rkDHbJ9qvg5FV/X6gUtXgvLnSZ4tNlWK5YDaWcoCMjK7gCVyMjcASucgHFYPh/Q9W07XftdzFClvJAYnRtYur10OQQytMvfoQAuMZy2cL1ZIVST0AyaZBPHc28c8DbopUDo2MZBGQeaS0dweqsPrlrXT/ABNHaXNnLBpAhvZZneVLiQtbiRiSNvlgSnBzklOuMcZPU1WtNRtL6WeK2mDS2z7JoiCrxntlTggHqD0I5GRzRYfQzZbbWNNupTolrZXcVwVd/tl48LIwRU42xPuBCg9uc+vCXGl6hbWGnf2Z9mubmylMjJcO0KS7lZWwwDFOXyOG6Y963KKBFbT/ALd9kB1T7OLhiSUttxRB2Xc3LY/vYXPoOlRa1bT3mjXNvawW9xJKu3yrp2SNxnkFlBK8ZwQDg4NXqKHqBz3h/S9U05rh7lFiVkwlu2rXF8Gb+8ZJlDJ6YAI79qdpa+Io9Wnl1DTtLit7lwztBqMkjx4QLwpgUNyPUda36KAOf2+JP7f+1f2ZpX2bb5Of7Sk37N2d23yMZx/Dn8adqyeIZNWtpNO07TJbe1kLo0+oyRvJmMqQVEDBeW9T0963qKForB1ucl4t1W0s305jq2m6drqOoiinuF5SQ7HGDgsg+8OBkxrW3Npr2/hmXTtLWJpFtmih+1M21m24y5X5jk8kjnk1pUUbqw07NMitFlSygW5EYmWNRIIs7N2OduecZ6ZqWiim9XclKysFFFFIYUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUVHcXEVpay3Fw4jiiQu7H+EAZJoAkrI8Q6TcataqlvcAKhy9pKSIbkf3HK4YA4x1K4J3I44rWVg6hhnBGRkY/SloaBMx49XNrokjy6ZJZT2wWJbQgbWc/KixsPlZScAYxjPIU5AsWekxR6MbG+SO7EysboSIGWZn5fIPUEk8enFaFFHW4bHHeFbPR9NmhttO8MtZakiNFc3SaX5CoB3MpVRICQPuFs5B6ZIw7LTLuDU7fzIrdNWWVPtFxb+GbhZZcEF9135vluCAckkg/3c4WvTaKXYPI86sdD0SeOIDQJxDNPdxvFLpkyK3z74Q6MgGwA5XcNqnphqZawaPLewz+INBurxJdLtTKJNMknzODIpaSEIX34XAdlOACARn5vSKz10SzTW31ZTdfa3UK3+mTeWQAQB5W7Zxk/w9ST1NUtLg9Xf+t1/kYd9dDT/BU9rLb6jI11FcLaxRWc9w6oc7FbarFOGUYbGOnY1LrupRan4ZzBpr3NvLMIpl1DR55RGAM7jbFVeQZCjjAGc5+U109FLca0OK8K2Uc9lqulXumx/YpNrwwf2PJZ2zoV52xSFgDuByDg5528gmTwvbaba2S2uieHX0zUvsfl3N0dM+zKkgUDDOQvmZbJym8cZzyCexopW3XcSPNdD06eDWbJoreG2v1lX7U9t4ZuLeSQZ/eCS6aby5AeSSS+4jKgnFdNfWs+v6ij2dq+ni1YouqSqUn6/MsSdSpI5MnyHaDskBBrpKKpu4hEUrGqsxcgYLNjJ9+OKWiikMKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA5OV/t+sfYvF7NbQyPstLIcWt1wOGk/5at1/dsEB5+RtoetXUj9u1S10qM/u1xdXWD0RT8ie25x9CEcd61J4IbqB4bmJJonGHjkUMrD0IPWmRWkMFxPNGmJLhg0jFic4AA69BgdBx1PUmhaAZmpG7vdXj0221OTTB5Hn+ZAkbSzfNtIXzFZQq8bvlJ+ZeR3z7y8uo9PSwg1i91DUvOkw2kx2qy7EIDKwmzGCu9N3QkkYAHFb2o6Vp2r26watYWt9Crb1juYVkUN0zhgRnk1Fc6Bo15p8Nhd6TYz2dvjybeW2Ro48DA2qRgcHHFIfU577Xd6z8P9XE15dW01uJ4jKRbmYhF5D7N8eeoO3H/AT0uyzz6Fo19IutXGr3gtDcQQXItwyhR94LGseVyRkk44HIras9L0/Tg40+xtrUSBQ4ghVNwUbVBwOcAYHoOKZp2jaZo6yLpOm2lispzILaBYw59TtAzTF2Oc0nUNbt9YtYr6PV5La7LIW1RtPG1ghYeX5DhiTtOQVbjnIwctuLnUxp+nX3/CRyQtqdzDEbbyodse5huSLKFtwAIO8twG4B5HQ6f4d0TSblrnStHsLKd1KtLbWqRswJyQSoBxkD8qzj4VV/Ej6kyaXEjSLITb6d5d1IVIIDz7zuG5QSNozgenL05l/XUUtnYS4Oo3C32oLrr6clk8irbmGJoQEGd0u5d5z975XT5SO/JXUG1e5utKew1CTT/tqFJ4HhSRY/kLFlyu7zB0GTtHUqeh0rrQNHvdQjv73SbG4vI9uy5ltkeRMHIwxGRg9KZqHhvQtXuRcaroun304UIJbm1SRgo6DLAnHJpdBvcoamuo6OumXb6zdTWlvPsvt8UIMsb5AdsRjG1iudu35cntUcIg1DSb/Ude1FjpcsxmtHldIfssS8B0kQKw3HLBt2drKPXN3WdGvLzSBpmjXFhp9m0JgkilsTKpjxjaoWRAoxkd+vGK0RZxSQ2y3cMEz25V0PlABHAxuUHO3qcc5APWjuH9f1/XQy/D1zqk/mi6Ek1iP+Pe7u4vIuJOn3ogBx1+YhD22fxHcoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKjW5ge6e2WaNp41DvEHG5VOQCR1AODg+xoAkoquLxG1JrJVcukQldgPlUEkAE+pwfy+mbFABRUJucX62vkzHdEZPO2fuxggbc/wB7nOPQGpqACiqWoata6Y8C3f2gfaHCI0VtJKoJIA3MikIMkcsQKsvcQxzRxSSokkufLRmAZ8DJwO+BQBJRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZmuwarPYhdGnSJ92ZFyFd19Echgh9yrZ6fKfmFXRb3R7LS7oW1u+nG1BmvLe5UiZTzl3JJMhO0/vMsGIOGOK3abLFHPGY5o1kQkEq65Bwcjj60dGBlWO+w0e61O+hka5mDXU0Ua7nAC/LGB3IUBfc59a5Lw9r9qvie0httRs2guyyN5XiObUcttJRCJF2xscHAVsnBwCASPRKKFZMHqrHInxD4csfGjr/wklqsksMiTwTaruVJQ6AKI2cqjfe4ABPNZkL6XPfjZ4mumhm1SWykVdXYqAUZliB3ZVi4BBBD/AMIO35a9BooXT+uv9IDiX8U6QngfTzqOuWKzyLDnz7tAzlJFD9TkkEHPpg5rZ1LVNB1LRoy0kWrQXTEW0dmwleZ1PWMqeGU/x5Gw8krjNbtFG+4bbGToFvqkFq41SXMZP7iGRvMmiXJwHlGA5xgdMjBy7/erWoooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA//Z)



… ALTRI TAG

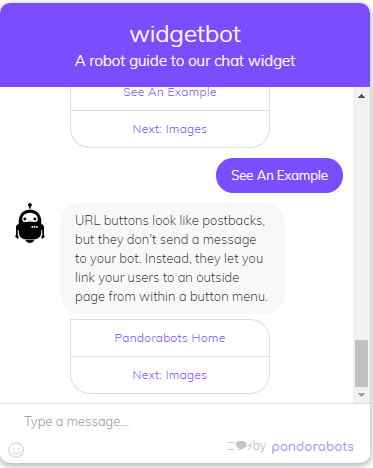
1. **<star>:** utilizzato per abbinare i caratteri jolly **\*** nel tag <pattern>.
2. **<srai>:** tag multiuso, usato per chiamare / abbinare le altre categorie.
3. **<random>:** utilizzato **<random>** per ottenere risposte casuali.
4. **<li>:** utilizzato per rappresentare più risposte.
5. **<set>:** utilizzato per impostare il valore in una variabile AIML.
6. **<get>:** utilizzato per ottenere il valore memorizzato in una variabile AIML.
7. **<that>:** utilizzato per rispondere in base al contesto.
8. **<topic>:** utilizzato per memorizzare un contesto in modo che la conversazione successiva possa essere effettuata in base a quel contesto.
9. **<think>:** utilizzato per memorizzare una variabile senza avvisare l'utente.
10. **<condition>:** simile alle istruzioni switch in un linguaggio di programmazione. Aiuta il bot a rispondere per abbinare l'input.

ALTRI TAG ANCORA…

#### url button

Il tag URL <button> consente alla risposta <template> di visualizzare un pulsante su cui il client (utente) può fare clic nell'app di messaggistica per avviare un sito Web. Il sito Web può essere visualizzato nell'app di messaggistica o in un'app per browser esterna.   
Il pulsante URL utilizza due tag secondari: <text> e <url>. Il sottotag <text> contiene il testo da visualizzare nel collegamento e il tag <url> specifica il collegamento da aprire.   
Esempio:

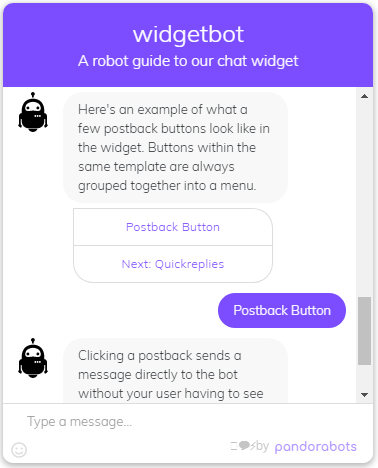
<button>  
  <text>Pandorabots Home</text>  
  <url>https://www.pandorabots.com </url>  
</button>



#### Postback Button

Il "postback" nel pulsante Postback descrive come il testo del pulsante viene rinviato al bot, come se l'utente avesse appena digitato o pronunciato il testo del pulsante. In effetti, la funzione di questo pulsante non impone alcun vincolo alla risposta del cliente: possono fare clic sul pulsante, digitare o dire la risposta o inserire qualcosa di completamente diverso. Resta responsabilità dell'autore del bot creare la logica in AIML per gestire queste risposte in modo diverso, se lo si desidera.   
Esempio:   
la coppia di categorie

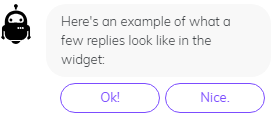
<category>   
  <pattern>EXAMPLE POSTBACK</pattern>   
  <template>   
    Here's an example of what a few postback buttons look like in the widget.   
    <button>   
      <text>Postback Button</text>   
      <postback>POSTBACK BUTTON</postback>   
    </button>   
  </template>   
</category>

display:   


#### replies

Il tag <reply> implementa una finestra di dialogo che consente all'utente di inviare una delle diverse possibili risposte al bot, scegliendo rapidamente toccando la selezione o, facoltativamente, digitandolo o salvandolo. Un tag <reply> è molto simile a un pulsante postback, tranne per il fatto che offre più di una scelta. Il tag <reply> contiene un elenco di espressioni di testo / postback. Ognuno visualizza il testo associato e, se l'utente sceglie tale opzione, rimanda il postback associato al bot.   
Esempio:   
la coppia di categorie

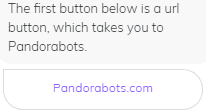
<category>   
  <pattern>REPLY EXAMPLE</pattern>   
  <template>   
    Here's an example of what a few reply buttons look like in the widget. Replies within the same template are always grouped together beneath your last message.   
    <reply>   
      <text>Ok!</text>   
      <postback>POSTBACK</postback>   
    </button>   
  </template>   
</category>   
<category>   
  <pattern>POSTBACK</pattern><that>REPLIES \*</that>   
  <template>   
    Quick replies work just like postbacks, and send a message directly to your bot without the user having to see it. That's how you hit this category!   
    <reply>   
      <text>Ok!</text>   
      <postback>Nice!</postback>   
    </button>   
  </template>   
</category>



#### hyperlink

Agli albori di AIML, quando la maggior parte dei bot veniva visualizzata su pagine Web, consentivamo a <modello> AIML di contenere un mix di tag HTML e AIML. Per consentire al bot di visualizzare un collegamento ipertestuale dell'immagine o di stilizzare la risposta, il botmaster potrebbe includere tag HTML come <a>, <img> o <b> come parte della risposta del bot.   
Sfortunatamente le piattaforme di messaggistica istantanea mancano di un linguaggio comune standard come HTML per implementare una tale decorazione di testo banale. Per questo motivo AIML 2.1 specifica i tag Rich Media per <immagine>, <video> e <hyperlink>.   
Esempio:

<template>   <link>  
    <text>Pandorabots.com</text>  
    <url>https://www.pandorabots.com </url>  
  </link> </template>



#### Image

<image>www.png|jpg|gif</image>

#### video

<video>www.mp4</video>

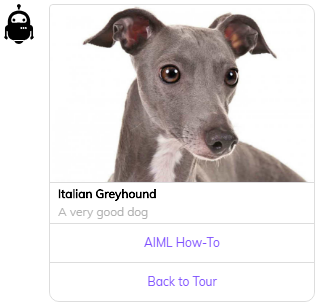
#### Card

Un tag <card> avvolge altri elementi: un tag immagine, un certo numero di pulsanti , nonché un titolo e un sottotitolo , entrambi contenenti testo. Il risultato è un menu che contiene tutti questi elementi rich media.

<card>   
  <image>www.png</image>   
  <title>Card</title>   
  <subtitle>Subtitle</subtitle>   
  <button>   
    <text>Option 1</text>   
    <postback>DO OPTION 1</postback>   
  </button>   
  <button>   
    <text>Option 2</text>   
    <postback>DO OPTION 2</postback>   
  </button>   
  <button>   
    <text>Option 3</text>   
    <postback>DO OPTION 3</postback>   
  </button>   
</card>

Esempio:

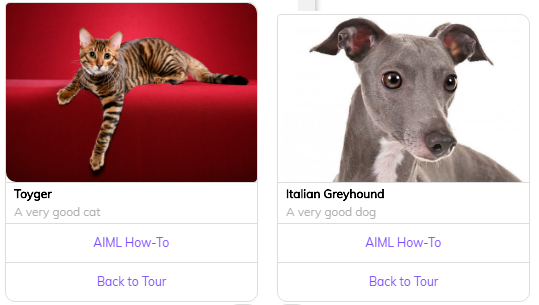
<card>   
  <image>www.png</image>   
  <title>Italian Greyhound</title>   
  <subtitle>A very good dog</subtitle>   
  <button>   
    <text>AIML How-To</text>   
    <postback>HOW TO</postback>   
  </button>   
  <button>   
    <text>Back To Tour</text>   
    <postback>RESUME TOUR</postback>   
  </button>   
</card>



#### carousel

Un tag <carousel> avvolge un certo numero di carte per creare un menu di scorrimento organizzato in diverse sezioni.

<carousel>   
  <card>   
    ...   
  </card>   
</carousel>



#### delay

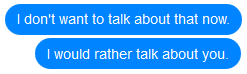
I ritardi sono utili per introdurre una pausa tra le parti di una risposta per una lettura più semplice o per simulare il tempo impiegato da un essere umano a leggere e digitare una risposta. Sono facili da usare: basta avvolgere un tag <delay> per il numero di secondi che si desidera attendere.

<delay>3</delay>

#### split

Le divisioni fanno esattamente ciò che dicono: dividono un messaggio in più parti. Questi verranno visualizzati all'utente come messaggi separati, che possono essere combinati con ritardi per distanziare le risposte di grandi dimensioni. Per usarli, basta inserire un <split /> tra il contenuto che si desidera separare.

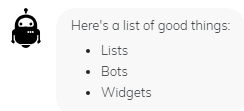
<category>   
  <pattern>TEST SPLIT</pattern>   
  <template>   
    I don't want to talk about that now.   
    <split/>   
    I would rather talk about you.   
  </template>   
</category>



#### bulleted list

Visualizza un elenco di punti elenco puntato.

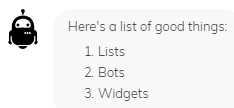
<template>   
  Here's a list of good things:   
  <list>   
    <item>Lists</item>   
    <item>Bots</item>   
    <item>Widgets</item>   
  </list>   
</template>



#### ordered list

Visualizza un elenco numerato di elementi.

<template>   
  Here's a list of good things:   
  <olist>   
    <item>Lists</item>   
    <item>Bots</item>   
    <item>Widgets</item>   
  </olist>   
</template>



**DEMO**

**CONCLUSIONE**

Nel progettare una chat bot può essere difficile, perché bisognerebbe rendere il bot molto più simile alle risposte che darebbe un essere umano, quindi umanizzare il bot. Umanizzare un chatbot farebbe sentire un utente più a suo agio e che dall’altra parte c’è davvero qualcuno che li ascolta e risponde in modo appropriato, invece di leggere o trasmettere informazioni.

Un chatbot è buono solo come è programmato per rispondere. Se è coinvolta l'IA, un chatbot può imparare e migliorare nel tempo. Ci vuole uno sforzo consapevole per umanizzare un chatbot progettando interfacce utente conversazionali in modo che un chatbot possa diventare un partner conversazionale convincente.

Tramite la creazione di chat bot, si può avere la possibilità di creare diverse applicazioni in diversi settori come:

* eLearnig: facilitare l’interazione con l’utente o la navigazione all’interno del materiale didattico sotto fora di assistente digitale;
* robotica: nei sistemi utilizzanti linguaggio pseudo naturale che vogliono interagire in un contesto multi-modale con l’utente;
* applicazioni finanziarie: utilizzando robot per pagamenti di fatture, trasferimenti di fondi e depositi;
* Aziende di e-commerce: utilizzano i bot per vendite personalizzate ai propri clienti;
* Ristorazione e vendite al dettaglio;
* Aziende: stanno esaminando i chatbot per consentire ai dipendenti di richiedere rimborsi o richiedere un congedo

È solo una questione di tempo prima che i robot trovino casi d'uso in ogni singolo settore verticale e business.

Van Baker, vicepresidente della ricerca presso Gartner, afferma che entro il 2020 oltre il 50% delle medie e grandi imprese avrà implementato chatbot di prodotto. Si prevede un risparmio di $ 0,70 per interazione utilizzando chatbot che ridurrebbe i costi aziendali di $ 8 miliardi all'anno entro il 2022.

**Link**:

1. <http://www.aiml.foundation/doc.html>
2. <https://chatbotslife.com/rule-based-standalone-aiml-chatbots-chatbots-part-2-f5dca9f15956>
3. <https://www.tutorialspoint.com/aiml/aiml_introduction.htm?source=post_page--------------------------->
4. <https://uxplanet.org/humanizing-chatbots-by-designing-conversational-uis-a92b25fa3e1a>
5. <https://medium.com/pandorabots-blog/aiml-tutorial-creating-a-context-aware-multi-functional-chatbot-e5e82c027a6a>
6. <https://studylibit.com/doc/838035/costruzione-di-basi-di-conoscenza-aiml-per-chatter-bot-a-...>
7. <https://home.pandorabots.com/home.html>
8. <https://www.pandorabots.com/docs/building-bots/quickstart/>

### **I CARATTERI JOLLY**

#### Nozioni di base sui caratteri jolly

Nell'UDC, abbiamo utilizzato un asterisco (\*) nel modello per acquisire l'input dell'utente. Questo simbolo, in AIML, è noto come carattere jolly .

I caratteri jolly vengono utilizzati per acquisire molti input utilizzando una sola categoria.

#### Il carattere \*jolly

Il \*simbolo è in grado di catturare **1 o più parole** nell'input dell'utente.

<pattern>HELLO \*</pattern>

Questo modello corrisponderebbe a tutti i seguenti input:

Ciao!

Ciao, Daniel.

Ciao mio caro amico.

Questo modello NON corrisponderebbe alla parola "Ciao" da solo, perché deve esserci almeno una parola catturata da \*per formare una corrispondenza.

.

#### Il carattere ^jolly

Il ^simbolo è anche un carattere jolly, tuttavia può catturare 0 o più parole.

<pattern>HELLO ^</pattern>

\*\* \*\* Questo modello corrisponderebbe a tutti i seguenti input:

* Ciao.
* Ciao!
* Ciao, Daniel.
* Ciao mio caro amico.

#### Priorità di corrispondenza

Che cosa succede se entrambi HELLO \* **ed** HELLO ^ esistere? Quale formerà una partita?

I caratteri jolly sono classificati in ordine di priorità, in modo che determinati schemi abbiano la precedenza su altri.

Il ^ ha una priorità più alta, quindi se l'ingresso è “Hello there”, allora HELLO ^verrà abbinato per primo.

#### Partite esatte

Se un modello forma una corrispondenza esatta con l'input, la categoria di corrispondenza esatta avrà la precedenza su qualsiasi contenente i caratteri jolly ^o \*che potrebbe corrispondere.

Quindi, se l'input è “Hello there”, e il pattern HELLO THEREesiste, corrisponderà prima degli altri pattern jolly HELLO ^e HELLO \*.

#### Le \_e #caratteri jolly

Ci sono altri due caratteri jolly \_e #. Questi caratteri jolly hanno la massima priorità durante la corrispondenza.

Anche se l'input forma una corrispondenza esatta con un modello, la corrispondenza può essere ignorata da un modello contenente uno di questi caratteri jolly.

<pattern>HELLO \_</pattern>

Se l'input è "Hello there", il modello sopra formerà una corrispondenza anche se <pattern>HELLO THERE</pattern>è stato definito.

Il \_carattere jolly è un carattere jolly "1 o più", come\*

Il #jolly è un jolly "0 o più", come^

#### Priorità di corrispondenza jolly

Il grafico seguente mostra la priorità di corrispondenza per tutti e quattro i caratteri jolly, insieme a un modello che contiene una corrispondenza esatta:

#### HELLO # > HELLO \_ > HELLO THERE > HELLO ^ > HELLO \*

**IMPORTANTE!**Fai molta attenzione quando usi #e \_, perché sovrascriveranno tutti gli altri schemi che potresti voler abbinare!

#### Caratteri jolly "echo"

È possibile "echo" le parole acquisite dal carattere jolly all'interno del modello utilizzando il tag <stella />. Per esempio:

<category>

<pattern>MY NAME IS \*</pattern>

<template>Hello, <star/>.</template>

</category>

***Umano: mi****chiamo Daniel.****Bot:****Ciao, Daniel.*

#### Più caratteri jolly

È possibile avere più di un carattere jolly per modello. Puoi anche fare eco a più caratteri jolly nel tuo modello usando <star index="x"/>, dove **x** corrisponde al numero indice (posizione nella frase) del carattere jolly:

<category>

<pattern>MY NAME IS \* AND I AM \* YEARS OLD</pattern>

<template>Hi <star/>. I am also <star index=“2”/> years old!</template>

</category>

### **VARIABILI**

#### Cosa sono le variabili?

Nella programmazione per computer, una variabile è un simbolo il cui valore può essere modificato.

AIML ha anche variabili. Questi possono essere usati per archiviare informazioni sul tuo bot, utente o qualsiasi altra cosa tu voglia. Esistono tre tipi di variabili:

* **Proprietà:** costanti globali per il bot. Questi possono essere modificati solo dal botmaster.
* **Predicati** : variabili globali per il bot. Di solito vengono impostati dal client durante la conversazione quando viene attivato un modello.
* **Variabili locali:** uguale ai predicati, tranne per il fatto che il loro ambito è limitato a una categoria.

#### Utilizzando le proprietà

Puoi usare una proprietà per memorizzare l'età del tuo bot. Crea una nuova proprietà con il nome "age" e il valore "8". Quindi, inserisci questa categoria:

<category>

<pattern>HOW OLD ARE YOU</pattern>

<template>I am <bot name=“age”/> years old.</template>

</category>

***Umano:****Quanti anni hai?****Bot:****Ho 8 anni.*

#### Impostazione dei predicati

Utilizzando una variabile predicato, è possibile scrivere una categoria che memorizzerà il nome del client. Questa categoria memorizzerà il nome del cliente in un predicato chiamato "nome":

<category>

<pattern>MY NAME IS \*</pattern>

<template>Nice to meet you, <set name=“name”><star/></set></template>

</category>

Nota come l'utente del \*jolly e <star/>ti consente di scrivere una singola categoria che catturerà qualsiasi nome!

#### RICHIAMO DEI PREDICATI

Una volta impostato un predicato, può essere richiamato altrove in AIML.

<category>

<pattern>WHAT IS MY NAME</pattern>

<template>Your name is <get name=“name”/>.</template>

</category>

Se il predicato è stato impostato utilizzando la categoria nell'esempio precedente sopra, questo richiamerà ora il valore del predicato chiamato "nome".

In combinazione, i due esempi precedenti consentirebbero la seguente conversazione:

***Umano: mi****chiamo Daniel.****Bot:****Piacere di conoscerti, Daniel.****Umano:****Qual è il mio nome?****Bot:****Il tuo nome è Daniel.*

#### UTILIZZANDO VAR

Le variabili locali funzionano quasi esattamente come i predicati, ma il loro ambito di applicazione è limitato a una singola categoria. Questi sono diversi dai predicati, che possono essere richiamati in qualsiasi momento durante la conversazione. Per esempio:

<category>

<pattern>THE APPLE IS \*</pattern>

<template>

<think><set var=“color”><star/></set></think>

I like <get var= “color”> apples.

</template>

</category>

Rivisiteremo le variabili locali in modo più dettagliato nella sezione "Contesto".

#### RICORSIONE E RIDUZIONE

#### Che cos'è la ricorsione?

In AIML, puoi definire un modello che chiama un'altra categoria

Circa la metà delle categorie di un bot usa la ricorsione in qualche modo.

#### Il <srai>tag

Il <srai>tag dice al bot di cercare un'altra categoria:

<category>

<pattern>HELLO</pattern>

<template><srai>HI</srai></template>

</category>

Se questa categoria è abbinata (ovvero, l'input è "Hello"), il bot ricorre. Prima di restituire del testo, cercherà innanzitutto una categoria diversa che corrisponda a HI.

#### utilizzando <srai>

Il tag <srai> traduce efficacemente l'input che corrisponde alle categorie seguenti in “Ciao”, contenuto nella categoria terminale.

<category>

<pattern>HELLO</pattern>

<template><srai>HI</srai></template>

</category>

<category>

<pattern>HI THERE</pattern>

<template><srai>HI</srai></template>

</category>

<category>

<pattern>HOWDY</pattern>

<template><srai>HI</srai></template>

</category>

:

<category>

<pattern>HI</pattern>

<template>Hi, how are you?</template>

</category>

#### Errori ortografici comuni ed espressioni colloquiali

Le persone sono pessime nell'ortografia e nella digitazione, il che potrebbe causare il fallimento del bot quando si cerca di trovare una corrispondenza. Puoi usare <srai> per tenere conto degli errori di ortografia comuni:

<category>

<pattern>HOW R U</pattern>

<template><srai>HOW ARE YOU</srai></template>

</category>

#### Sinonimi

È inoltre possibile utilizzare <srai>in combinazione con i caratteri jolly per definire anche parole o frasi:

<category>

<pattern>\_ DAD \*</pattern>

<template><srai><star/> FATHER <star index=“2”/></srai></template>

</category>

#### Riduzione

Possiamo anche usare <srai>per rimuovere parole non necessarie dall'input.

<category>

<pattern>I SEE NOW THAT YOU ARE \*</pattern>

<template><srai>YOU ARE <star/></srai></template>

</category>

**SET E MAPPE**

Un set AIML è un elenco di stringhe di testo univoche. Es.

Un set chiamato "colori" potrebbe contenere quanto segue:

* rosso
* arancia
* giallo
* verde
* blu
* viola
* .

l set funziona come un jolly. Cattura una o più parole trovate nell'input dell'utente.

Il nome del file set pertinente viene inserito tra i <set>tag.

<category>

<pattern>IS <set>colors</set> A COLOR</pattern>

<template>Yes, <star/> is a color.</template>

</category>

I set possono essere utilizzati anche con i caratteri jolly: \*,^,\_,#.

#### Mappe

Una mappa è un elenco di coppie chiave-valore utilizzate per formare associazioni tra parole.

Una mappa chiamata "statecapitals" potrebbe apparire così:

* California: Sacramento
* New York: Albany
* Texas: Austin
* ...

Le mappe sono accessibili dall'interno del modello.

#### CONTESTO

#### Che cos'è il contesto?

Quando gli umani conversano, siamo in grado di ricordare le cose che sono state precedentemente dette.

***Umano 1:****ti piace il caffè?****Umano 2:****Sì.*

Human 1 sa che "Sì" è una risposta alla loro domanda, perché l'hanno detto in un contesto particolare.

Esistono diverse funzionalità in AIML che ti consentono di fornire un contesto all'interno della tua categoria.

#### Il <that>tag

Il tag <that>, consente al bot di ricordare l'ultima frase pronunciata.

#### ARGOMENTO

C'è una variabile di predicato integrata chiamata topic. Le categorie possono essere raggruppate in base a valori diversi per topic. Queste categorie possono essere abbinate solo se il predicato dell'argomento è stato impostato su un determinato valore.

Topic consente al bot di mantenere il contesto più a lungo di un'interazione

#### Loops

I loop vengono utilizzati nella programmazione per iterare un'azione o una funzione su una serie di valori, fino al raggiungimento di uno stato particolare. In AIML, possiamo scorrere gli elementi dell'elenco in una condizione fino a quando non viene raggiunto un determinato valore, a quel punto il ciclo termina e il bot fornisce una risposta.

Innanzitutto, imposta il modello:

<pattern>COUNT TO <set>number</set></pattern>

Successivamente, ti consigliamo di impostare una variabile locale nel tuo modello. La variabile inizia il conteggio da 0. Mentre passiamo in rassegna i nostri elementi dell'elenco, questo conteggio cambierà:

<think><set var=“count”>0</set></think>

Successivamente, dobbiamo impostare una condizione i cui elementi dell'elenco dipendono dal valore della variabile "count":

<condition var=“count”>

Quindi, creiamo un elemento elenco vuoto il cui valore è <star/>. Questo elemento verrà restituito quando il valore di "count" raggiunge il numero specificato nell'input:

<li><value><star/></value></li>

Il nostro secondo elemento della lista conterrà il ciclo. Usando la mappa "successore", possiamo cambiare contemporaneamente il valore di count e aggiungerlo alla risposta del bot:

<li>

<set name="count">

<map><name>successor</name><get var="count"/></map>

</set>

<loop/>

</li>

Questo reimposta il valore di "count" sul numero corrispondente del suo valore corrente, che si trova nella mappa "successore". Aggiungerà quindi il valore successivo alla risposta del bot. Infine, gli <loop/>dice di restituire nuovamente l'elemento list, comunque questa volta, con il nuovo valore di "count".

Complessivamente, i componenti sopra formano il seguente codice:

<category>

<pattern>COUNT TO <set>number</set></pattern>

<template><think><set var="count">0</set>

</think>

<condition var="count">

<li><value><star/></value></li>

<li><set var="count"><map><name>successor</name><get name="count"/></map></set> <loop/></li>

</condition></template>

</category>

Quando il secondo <li>ha un tempo sufficiente per "contare" uguale a 8, la prima voce dell'elenco verrà restituita e il ciclo terminerà. Il bot risponderà quindi a tutto il testo restituito dalla seconda voce dell'elenco (si noti che quando viene ripristinata la variabile "count", non è presente alcun <think>tag).

#### APPRENDIMENTO

#### Che cos'è l'apprendimento?

AIML 2.0 ha funzionalità che consentono ai tuoi clienti di insegnare al bot nuove informazioni.

Usando i tag <learn>e <learnf>, i clienti possono effettivamente generare nuove categorie all'interno della loro conversazione.

Le categorie apprese usando <learn>saranno accessibili solo per quella particolare conversazione e alla fine verranno cancellate dopo qualche tempo di inattività di nessuna interazione con il bot.

Le categorie apprese utilizzando <learnf>verranno scritte in un nuovo file AIML e sono accessibili a chiunque parli con il tuo bot. (Attenzione! I tuoi clienti possono insegnare al bot cose cattive, quindi usalo <learnf>con estrema cautela.)