**IBM AbilityLabTM Content Clarifier**

# API RefERENCE VERSION: 1.7

API V1 documentation for the IBM AbilityLab™ Content Clarifier API, an AI and NLP effort to augment digital content.

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| **Ref#** | **Description** |
| **1** | **/api/V1/contextual-simplify**  This API accepts a string of English text as input and returns a simplified or enhanced version of it.  **I. Options:**  **enhanceContentMode** –  if equals 1, then return information from semantic web related to topics identified in the input  if equals 2, then return plain English definitions for complex words identified in the input  if equals 3, then return augmentative and alternative (AAC) communication symbols for key words identified in the input  **outputMode** –  if equal 0, returns everything in output in form:  |\_word\_| |^replacement^| %#[ confidences ]#%  if equal 1, eliminates |\_word\_| and %#[ confidences ]#%, in the output and returns only |^replacement^|  if equal 2, eliminates |\_word\_| and |^replacement^| and %#[ confidences ]#%, returns only replacement (without surrounding delimiters)  **II. Example curl invocation:**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>","data":"You really should replace your humongous superannuated mobile phone with an Apple iPhone!","options":"{\"enhanceContentMode\":1,\"outputMode\":1}"}' http:// <API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/contextual-simplify  **III. Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/contextual-simplify', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  data: "You really should replace your humongous superannuated mobile phone with an Apple iPhone!",  options: {"enhanceContentMode":1}  });  xhr.send(value);  **IV. Sample responses:**  **Sample 1 - Response with output mode 0**  {"status":"OK","usage":"By accessing IBM AbilityLab Content Clarifier API or using information generated by IBM AbilityLab Content Clarifier API, you are agreeing to be bound by the IBM AbilityLab Content Clarifier API Terms of Use.","simplified":"You really should replace your |\_humongous\_||^large^|%#[{\"lexicon\":\"walloping\",\"confidence\":\"24.444742115663278\"},{\"lexicon\":\"thumping\",\"confidence\":\"34.37678161374614\"},{\"lexicon\":\"whopping\",\"confidence\":\"34.377546473134714\"},{\"lexicon\":\"banging\",\"confidence\":\"35.36152753998413\"},{\"lexicon\":\"large\",\"confidence\":\"38.6948051948052\"}]#% |\_superannuated\_||^old^|%#[{\"lexicon\":\"noncurrent\",\"confidence\":\"19.861906234355214\"},{\"lexicon\":\"outdated\",\"confidence\":\"21.01286767932045\"},{\"lexicon\":\"obsolete\",\"confidence\":\"21.013043492992875\"},{\"lexicon\":\"overage\",\"confidence\":\"21.826279209480973\"},{\"lexicon\":\"retired\",\"confidence\":\"29.47726598427533\"},{\"lexicon\":\"old\",\"confidence\":\"61.31326744534292\"}]#% mobile phone %~{\"concept\":\"Mobile phone\",\"relevance\":\"0.989037\",\"website\":\"undefined\",\"thumbnail\":\"http://commons.wikimedia.org/wiki/Special:FilePath/Mobile\_phone\_evolution.jpg?width=300\",\"comment\":\"A mobile phone (also known as a cellular phone, cell phone, hand phone, or simply a phone) is a phone that can make and receive telephone calls over a radio link while moving around a wide geographic area. It does so by connecting to a cellular network provided by a mobile phone operator, allowing access to the public telephone network.\"}~% with an Apple iphone %~{\"concept\":\"IPhone\",\"relevance\":\"0.951824\",\"website\":\"undefined\",\"thumbnail\":\"http://en.wikipedia.org/wiki/Special:FilePath/IPhone\_6S\_Rose\_Gold.jpg.png?width=300\",\"comment\":\"iPhone (/ˈaɪfoʊn/ EYE-fohn) is a line of smartphones designed and marketed by Apple Inc. They run Apple's iOS mobile operating system. The first generation iPhone was released on June 29, 2007; the most recent iPhone models are the iPhone 6s and iPhone 6s Plus, which were unveiled at a special event on September 9, 2015.The user interface is built around the device's multi-touch screen, including a virtual keyboard. The iPhone has Wi-Fi and can connect to cellular networks.\"}~%!"}  **Sample 2 - Response with output mode 1**  {"status":"OK","usage":"By accessing IBM AbilityLab Content Clarifier API or using information generated by IBM AbilityLab Content Clarifier API, you are agreeing to be bound by the IBM AbilityLab Content Clarifier API Terms of Use.","simplified":"You really should replace your |\_humongous\_||^large^|%#[{\"lexicon\":\"walloping\",\"confidence\":\"24.444742115663278\"},{\"lexicon\":\"thumping\",\"confidence\":\"34.37678161374614\"},{\"lexicon\":\"whopping\",\"confidence\":\"34.377546473134714\"},{\"lexicon\":\"banging\",\"confidence\":\"35.36152753998413\"},{\"lexicon\":\"large\",\"confidence\":\"38.6948051948052\"}]#% |\_superannuated\_||^old^|%#[{\"lexicon\":\"noncurrent\",\"confidence\":\"19.861906234355214\"},{\"lexicon\":\"outdated\",\"confidence\":\"21.01286767932045\"},{\"lexicon\":\"obsolete\",\"confidence\":\"21.013043492992875\"},{\"lexicon\":\"overage\",\"confidence\":\"21.826279209480973\"},{\"lexicon\":\"retired\",\"confidence\":\"29.47726598427533\"},{\"lexicon\":\"old\",\"confidence\":\"61.31326744534292\"}]#% mobile phone %~{\"concept\":\"Mobile phone\",\"relevance\":\"0.989037\",\"website\":\"undefined\",\"thumbnail\":\"http://commons.wikimedia.org/wiki/Special:FilePath/Mobile\_phone\_evolution.jpg?width=300\",\"comment\":\"A mobile phone (also known as a cellular phone, cell phone, hand phone, or simply a phone) is a phone that can make and receive telephone calls over a radio link while moving around a wide geographic area. It does so by connecting to a cellular network provided by a mobile phone operator, allowing access to the public telephone network.\"}~% with an Apple iphone %~{\"concept\":\"IPhone\",\"relevance\":\"0.951824\",\"website\":\"undefined\",\"thumbnail\":\"http://en.wikipedia.org/wiki/Special:FilePath/IPhone\_6S\_Rose\_Gold.jpg.png?width=300\",\"comment\":\"iPhone (/ˈaɪfoʊn/ EYE-fohn) is a line of smartphones designed and marketed by Apple Inc. They run Apple's iOS mobile operating system. The first generation iPhone was released on June 29, 2007; the most recent iPhone models are the iPhone 6s and iPhone 6s Plus, which were unveiled at a special event on September 9, 2015.The user interface is built around the device's multi-touch screen, including a virtual keyboard. The iPhone has Wi-Fi and can connect to cellular networks.\"}~%!"}  **Sample 3 - Response with output mode 2**  {"status":"OK","usage":"By accessing IBM AbilityLab Content Clarifier API or using information generated by IBM AbilityLab Content Clarifier API, you are agreeing to be bound by the IBM AbilityLab Content Clarifier API Terms of Use.","simplified":"You really should replace your |\_humongous\_||^large^|%#[{\"lexicon\":\"walloping\",\"confidence\":\"24.444742115663278\"},{\"lexicon\":\"thumping\",\"confidence\":\"34.37678161374614\"},{\"lexicon\":\"whopping\",\"confidence\":\"34.377546473134714\"},{\"lexicon\":\"banging\",\"confidence\":\"35.36152753998413\"},{\"lexicon\":\"large\",\"confidence\":\"38.6948051948052\"}]#% |\_superannuated\_||^old^|%#[{\"lexicon\":\"noncurrent\",\"confidence\":\"19.861906234355214\"},{\"lexicon\":\"outdated\",\"confidence\":\"21.01286767932045\"},{\"lexicon\":\"obsolete\",\"confidence\":\"21.013043492992875\"},{\"lexicon\":\"overage\",\"confidence\":\"21.826279209480973\"},{\"lexicon\":\"retired\",\"confidence\":\"29.47726598427533\"},{\"lexicon\":\"old\",\"confidence\":\"61.31326744534292\"}]#% mobile phone %~{\"concept\":\"Mobile phone\",\"relevance\":\"0.989037\",\"website\":\"undefined\",\"thumbnail\":\"http://commons.wikimedia.org/wiki/Special:FilePath/Mobile\_phone\_evolution.jpg?width=300\",\"comment\":\"A mobile phone (also known as a cellular phone, cell phone, hand phone, or simply a phone) is a phone that can make and receive telephone calls over a radio link while moving around a wide geographic area. It does so by connecting to a cellular network provided by a mobile phone operator, allowing access to the public telephone network.\"}~% with an Apple iphone %~{\"concept\":\"IPhone\",\"relevance\":\"0.951824\",\"website\":\"undefined\",\"thumbnail\":\"http://en.wikipedia.org/wiki/Special:FilePath/IPhone\_6S\_Rose\_Gold.jpg.png?width=300\",\"comment\":\"iPhone (/ˈaɪfoʊn/ EYE-fohn) is a line of smartphones designed and marketed by Apple Inc. They run Apple's iOS mobile operating system. The first generation iPhone was released on June 29, 2007; the most recent iPhone models are the iPhone 6s and iPhone 6s Plus, which were unveiled at a special event on September 9, 2015.The user interface is built around the device's multi-touch screen, including a virtual keyboard. The iPhone has Wi-Fi and can connect to cellular networks.\"}~%!"} |
| **2** | **/api/V1/contextual-simplify-url**  This API accepts a URL as input and extracts the textual content from the link. This returns a simplified or enhanced version of the textual content.  **I. Options:**  **enhanceContentMode** –  if equals 1, then return information from semantic web related to topics identified in the input  if equals 2, then return plain English definitions for complex words identified in the input  if equals 3, then return augmentative and alternative (AAC) communication symbols for key words identified in the input  **outputMode** –  if equal 0, returns everything in output in form:  |\_word\_| |^replacement^| %#[ confidences ]#%  if equal 1, eliminates |\_word\_| and %#[ confidences ]#%, in the output and returns only |^replacement^|  if equal 2, eliminates |\_word\_| and |^replacement^| and %#[ confidences ]#%, returns only replacement (without surrounding delimiters)  **II. Example curl invocation:**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>", "url":"http://www.website.com", "options":"{\"outputMode\":1}"}' http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/contextual-simplify-url  **III. Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/contextual-simplify-url', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  url: "http://www.website.com",  options: {"enhanceContentMode":1,"outputMode":1}  });  xhr.send(value); |

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|  | **Description** |
| **3** | **/api/V1/condense**  This API accepts a string of English text as input and returns a summarized version of it.  **I. Options:**  **condenseMode** –  if equal *extraction*, returns summarization using extraction algorithm. Extraction attempt to pull direct sentences from the content that are identified as most important.  if equal *abstraction*, returns summarization using abstraction algorithm. Abstraction performs summarization by rewording paragraph, extracting sub phrases, etc.  **II. Example curl invocation:**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>", "data":"IBM announced new and expanded solutions and features including cognitive technologies that enable companies to deliver personalized customer experiences. According to a new report from Nucleus Research, IBM delivers $15.82 return on investment (ROI) for every dollar spent on its marketing, sales, merchandising and analytics offerings which today are being used by leading brands such as ING Direct, The Home Shopping Network (HSN) and Standard Life to meet the personalized, real-time needs of their customers. The importance of these experiences was highlighted in a recent IBM Study, “Redefining Markets,” where 66 percent of CxOs stated they are interested in creating more digital, individualized experiences. IBM is infusing cognitive technologies into the tools that practitioners work with today to help companies deliver these complete end-to-end customer experiences. These new offerings will leverage cognitive’s ability to understand, reason and learn over time and in the end provide teams with the expert in-the-moment advice, insights and recommendations to help them make better, more informed decisions at each step in the brand journey.", "options":"{\"condenseMode\":\"abstraction\"}"}' http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense  **III. Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  data: "IBM announced new and expanded solutions and features including cognitive technologies that enable companies to deliver personalized customer experiences. According to a new report from Nucleus Research, IBM delivers $15.82 return on investment (ROI) for every dollar spent on its marketing, sales, merchandising and analytics offerings which today are being used by leading brands such as ING Direct, The Home Shopping Network (HSN) and Standard Life to meet the personalized, real-time needs of their customers. The importance of these experiences was highlighted in a recent IBM Study, Redefining Markets, where 66 percent of CxOs stated they are interested in creating more digital, individualized experiences. IBM is infusing cognitive technologies into the tools that practitioners work with today to help companies deliver these complete end-to-end customer experiences. These new offerings will leverage cognitive’s ability to understand, reason and learn over time and in the end provide teams with the expert in-the-moment advice, insights and recommendations to help them make better, more informed decisions at each step in the brand journey.",  options: {"condenseMode":"abstraction"}  });  xhr.send(value);  **IV. Sample response with condenseMode = abstraction**  {"status":"OK","usage":"By accessing IBM AbilityLab Content Clarifier API or using information generated by IBM AbilityLab Content Clarifier API, you are agreeing to be bound by the IBM AbilityLab Content Clarifier API Terms of Use.","condensed":"IBM announced new and expanded solutions and features including cognitive technologies that enable companies to deliver personalized customer experiences. IBM delivers $15.82 return on investment. IBM is infusing cognitive technologies into the tools that practitioners work with today to help companies deliver these complete end-to-end customer experiences. These new offerings will leverage cognitive’s ability to understand. \n\nContent Length: 1156\nSummary Length: 429\nSummary Ratio: 62.89"} |
| **4** | **/api/V1/condense-url**  This API accepts a URL as input and extracts the textual content from the link. The API returns a summarized version of the textual content.  **I. Options:**  **condenseMode** –  if equal extraction, returns summarization using extraction algorithm. Extraction attempt to pull direct sentences from the content that are identified as most important.  if equal abstraction, returns summarization using abstraction algorithm. Abstraction performs summarization by rewording paragraph, extracting sub phrases, etc.  **II. Example curl invocation:**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>", "url":"http://www.website.com", "options":"{\"condenseMode\":\"extraction\"}"}' http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-url  **III. Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-url', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  url: "http://www.website.com",  options: {"condenseMode":"extraction"}  });  xhr.send(value); |
| **5** | **/api/V1/condense-simplify**  This API accepts a string of English text as input and returns a summarized AND simplified version of it.  **I. Options:**  **outputMode** –  if equal 0, returns everything in output in form:  |\_word\_| |^replacement^| %#[ confidences ]#%  if equal 1, eliminates |\_word\_| and %#[ confidences ]#%, in the output and returns only |^replacement^|  if equal 2, eliminates |\_word\_| and |^replacement^| and %#[ confidences ]#%, returns only replacement (without surrounding delimiters)  **condenseMode** –  if equal extraction, returns summarization using extraction algorithm. Extraction attempt to pull direct sentences from the content that are identified as most important.  if equal abstraction, returns summarization using abstraction algorithm. Abstraction performs summarization by rewording paragraph, extracting sub phrases, etc.  **II. Example curl invocation:**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>", "data":"IBM announced new and expanded solutions and features including cognitive technologies that enable companies to deliver personalized customer experiences. According to a new report from Nucleus Research, IBM delivers $15.82 return on investment (ROI) for every dollar spent on its marketing, sales, merchandising and analytics offerings which today are being used by leading brands such as ING Direct, The Home Shopping Network (HSN) and Standard Life to meet the personalized, real-time needs of their customers. The importance of these experiences was highlighted in a recent IBM Study, “Redefining Markets,” where 66 percent of CxOs stated they are interested in creating more digital, individualized experiences. IBM is infusing cognitive technologies into the tools that practitioners work with today to help companies deliver these complete end-to-end customer experiences. These new offerings will leverage cognitive’s ability to understand, reason and learn over time and in the end provide teams with the expert in-the-moment advice, insights and recommendations to help them make better, more informed decisions at each step in the brand journey.", "options":"{ \"condenseMode\":\"abstraction\", \"outputMode\":1 }"}' http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-simplify  **III: Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-simplify', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  data:"IBM announced new and expanded solutions and features including cognitive technologies that enable companies to deliver personalized customer experiences. According to a new report from Nucleus Research, IBM delivers $15.82 return on investment (ROI) for every dollar spent on its marketing, sales, merchandising and analytics offerings which today are being used by leading brands such as ING Direct, The Home Shopping Network (HSN) and Standard Life to meet the personalized, real-time needs of their customers. The importance of these experiences was highlighted in a recent IBM Study, “Redefining Markets,” where 66 percent of CxOs stated they are interested in creating more digital, individualized experiences. IBM is infusing cognitive technologies into the tools that practitioners work with today to help companies deliver these complete end-to-end customer experiences. These new offerings will leverage cognitive’s ability to understand, reason and learn over time and in the end provide teams with the expert in-the-moment advice, insights and recommendations to help them make better, more informed decisions at each step in the brand journey.",  options: {"condenseMode":"abstraction", "outputMode":1}  });  xhr.send(value);  **IV. Sample response with condenseMode = abstraction**  {"status":"OK","usage":"By accessing IBM AbilityLab Content Clarifier API or using information generated by IBM AbilityLab Content Clarifier API, you are agreeing to be bound by the IBM AbilityLab Content Clarifier API Terms of Use.","condensed":"IBM announced new and expanded solutions and features including cognitive technologies that |\_enable\_||^change^|%#[{\"lexicon\":\"modify\",\"confidence\":\"45.87649880095923\"},{\"lexicon\":\"alter\",\"confidence\":\"64.18690138945097\"},{\"lexicon\":\"change\",\"confidence\":\"97.90673916065134\"}]#% companies to deliver personalized customer experiences. IBM delivers $15.82 return on investment. IBM is infusing cognitive technologies into the tools that practitioners work with today to help companies deliver these complete end-to-end customer experiences. These new offerings will leverage cognitive’s |\_ability\_||^power^|%#[{\"lexicon\":\"cognition\",\"confidence\":\"24.44960854818555\"},{\"lexicon\":\"quality\",\"confidence\":\"26.420068027210885\"},{\"lexicon\":\"knowledge\",\"confidence\":\"33.711445559271645\"},{\"lexicon\":\"noesis\",\"confidence\":\"36.66725002916813\"},{\"lexicon\":\"power\",\"confidence\":\"38.79315960912053\"}]#% to understand."} |
| **6** | **/api/V1/condense-simplify-url**  This API accepts a URL as input and extracts the textual content from the link. The API returns a summarized AND simplified version of it.  **I. Options:**  **outputMode** –  if equal 0, returns everything in output in form:  |\_word\_| |^replacement^| %#[ confidences ]#%  if equal 1, eliminates |\_word\_| and %#[ confidences ]#%, in the output and returns only |^replacement^|  if equal 2, eliminates |\_word\_| and |^replacement^| and %#[ confidences ]#%, returns only replacement (without surrounding delimiters)  **condenseMode** –  if equal extraction, returns summarization using extraction algorithm. Extraction attempt to pull direct sentences from the content that are identified as most important.  if equal abstraction, returns summarization using abstraction algorithm. Abstraction performs summarization by rewording paragraph, extracting sub phrases, etc.  **II. Example curl invocation:**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>", "url":"http://www.website.com", "options":"{ \"outputMode\":1}"}' http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-simplify-url  **III. Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-simplify-url', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  url: "http://www.website.com",  options: {"outputMode":1}  });  xhr.send(value); |

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| **7** | **/api/V1/condense-conversation**  This API accepts textual conversations (multi-participant, timestamped messages) and outputs a conversation summary as a JSON array of messages (or key portions of messages) which have been extracted from the conversation.  This API expects a formatted JSON array containing the conversation messages as input. As shown in the example below, each message in the conversation has a speaker (ParticipantName), the message text (Message), a unique message identifier (MessageId) – which can be generated using a random string generator if necessary, and the timestamp of the message (TimeStamp)  [{  "ParticipantName": "Scott Chapman",  "Message": "it is interesting to go through the NLP info too. For example it found basically 4 \"sentences\"",  "MessageId": "58dd0fb0e4b0c5168c40aafd",  "TimeStamp": 1490882480581  },  {  "ParticipantName": "Scott Chapman",  "Message": "like \"we change the admin doc\", \"we add some more words\", \"remind the end user to wait...\" etc",  "MessageId": "58dd0fede4b0c5168c40ab34",  "TimeStamp": 1490882541488  },  {  "ParticipantName": "Jon Brunn",  "Message": "yeah, so to me there is an action embedded in there - and the decision on whether to carry out the action or not is just part of the fulfillment process in that action",  "MessageId": "58dd100de4b0c5168c40ab5a",  "TimeStamp": 1490882573736  }  ]  **I. Options:**  **classifierThreshold** –  The summarization algorithm uses a statistical classifier to identify essential or non-essential aspects of the summary. The higher the classifierThreshold, the more restrictive the algorithm becomes, i.e., the more “compact” the summary becomes. The range of this value is {0.80 – 0.95}, and the advised default value is 0.85. To expand or contract the resulting summary, this value can be adjusted.  **messageFormat** –  The statistical classifier has been trained on a chat messaging corpus, as well as an email messaging corpus. For optimal conversation summarization, the messageFormat should be set to match the format of the message content.  if equal short, this identifies the format of the input content as “short form messaging”. This generally maps to chat or text message conversations.  if equal long, this identifies the format of the input content as “long form messaging”. This generally maps to email thread conversations.  **II. Example curl invocation:**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>","data":[{"ParticipantName":"WILLIE SCOTT","Message":"\nin this case it was auto-created ","MessageId":"590247d7e4b0971151128f33","TimeStamp":1493321687972},{"ParticipantName":"Sushank Reddy Vadde","Message":"yea, then it just picks up defaults. Better to create it specifically using a specific config\n(number of partitions and replicas)","MessageId":"590247dfe4b0971151128f3c","TimeStamp":1493321695396},{"ParticipantName":"Sushank Reddy Vadde","Message":"looks like it is working properly now. distribution to partitions","MessageId":"590247e7e4b0971151128f42","TimeStamp":1493321703289},{"ParticipantName":"WILLIE SCOTT","Message":"\nyep! ","MessageId":"590247e9e4b0971151128f44","TimeStamp":1493321705709},{"ParticipantName":"Sushank Reddy Vadde","Message":"wait a sec.","MessageId":"590247ede4b0971151128f46","TimeStamp":1493321709438},{"ParticipantName":"WILLIE SCOTT","Message":"\nand yeah, found the defaults here earlier: https://github.ibm.com/toscana/kafka-config/commit/1d2e4998eae74cb596d523a2a95ea8f07b6f6ff6 ","MessageId":"590247f1e4b0971151128f4e","TimeStamp":1493321713181},{"ParticipantName":"Sushank Reddy Vadde","Message":"are we using a key for producing messages?","MessageId":"590247f5e4b0971151128f50","TimeStamp":1493321717028},{"ParticipantName":"WILLIE SCOTT","Message":" \nor sending to this topic? pretty sure we dont ","MessageId":"590247fde4b0971151128f52","TimeStamp":1493321725208},{"ParticipantName":"Sushank Reddy Vadde","Message":"ok.","MessageId":"590247ffe4b0971151128f53","TimeStamp":1493321727664},{"ParticipantName":"WILLIE SCOTT","Message":"\nsomething jump out? ","MessageId":"59024803e4b0971151128f5b","TimeStamp":1493321731787},{"ParticipantName":"Sushank Reddy Vadde","Message":"watching distribution. It should be round-robin","MessageId":"59024808e4b0971151128f5c","TimeStamp":1493321736448},{"ParticipantName":"Sushank Reddy Vadde","Message":"see some topics with an offset of 3 others with 0","MessageId":"59024814e4b0971151128f5d","TimeStamp":1493321748070},{"ParticipantName":"Sushank Reddy Vadde","Message":"might be ok. should watch and see if the numbers stay close to each-other","MessageId":"5902481ae4b0971151128f65","TimeStamp":1493321754149},{"ParticipantName":"WILLIE SCOTT","Message":" \nlooking a little better now? wonder if it just takes some time ","MessageId":"5902481de4b0971151128f6b","TimeStamp":1493321757671},{"ParticipantName":"Sushank Reddy Vadde","Message":"its probably OK. They all seem to be increasing. Difference remains small","MessageId":"59024823e4b0971151128f6f","TimeStamp":1493321763024},{"ParticipantName":"Sushank Reddy Vadde","Message":"man I lova kafka","MessageId":"59024828e4b0971151128f76","TimeStamp":1493321768870},{"ParticipantName":"Sushank Reddy Vadde","Message":"stunning we only have 16 topics.","MessageId":"59024834e4b0971151128f7e","TimeStamp":1493321780749},{"ParticipantName":"Sushank Reddy Vadde","Message":"we hardly use the thing","MessageId":"5902483ae4b0971151128f80","TimeStamp":1493321786221},{"ParticipantName":"WILLIE SCOTT","Message":" \nyeah! its crazy powerful I think....and pretty straightforward with Spring ","MessageId":"5902483ce4b0971151128f81","TimeStamp":1493321788965},{"ParticipantName":"Sushank Reddy Vadde","Message":"yea, not sure why we arent using it more","MessageId":"59024843e4b0971151128f82","TimeStamp":1493321795527}], "options":{"classifierThreshold":0.85, "messageFormat":"short"}}' http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-conversation  **III. Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/condense-conversation', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  data: [<JSON\_ARRAY\_OF\_MESSAGES>],  options: {"classifierThreshold":0.85,"messageFormat":"short"}  });  xhr.send(value);  **IV. Sample response with messageFormat = short** {"status":"OK","usage":"By accessing IBM AbilityLab Content Clarifier API or using information generated by IBM AbilityLab Content Clarifier API, you are agreeing to be bound by the IBM AbilityLab Content Clarifier API Terms of Use.","condensed":[{"ConvoStartTimeStamp":1493321788965,"ConvoWordCnt":145,"CC\_SummaryWordCnt":53},{"ParticipantName":"WILLIE SCOTT","Summarized\_Message":" in this case it was auto-created. and yeah, found the defaults here earlier: https://github.ibm.com/toscana/kafka-config/commit/1d2e4998eae74cb596d523a2a95ea8f07b6f6ff6."},{"ParticipantName":"Sushank Reddy Vadde","Summarized\_Message":" are we using a key for producing messages? see some topics with an offset of 3 others with 0. should watch and see if the numbers stay close to each-other."},{"ParticipantName":"WILLIE SCOTT","Summarized\_Message":" its crazy powerful I think....and pretty straightforward with Spring."}]} |
|  | **Description** |
| **8** | **/ api/V1/analyze-tone**  This API accepts a passage of text and returns the high-level emotional tone distributions, as well as the emotion tone for each sentence within the text passage.  **I. Example curl invocation**  curl -i -X POST -H 'Content-Type: application/json' -d '{"id":"<API\_ACCESS\_ID>","apikey":"<API\_ACCESS\_KEY>","data":"Players on the batting team take turns hitting against the pitcher of the fielding team, which tries to prevent runs by getting hitters out in any of several ways. A player on the batting team who reaches a base safely can later attempt to advance to subsequent bases during teammates turns batting, such as on a hit or by other means. The teams switch between batting and fielding whenever the fielding team records three outs. One turn batting for both teams, beginning with the visiting team, constitutes an inning. A game is composed of nine innings, and the team with the greater number of runs at the end of the game wins. Baseball has no game clock, although almost all games end in the ninth inning."}' http://localhost:3000/api/V1/analyze-tone  **III. Example javascript invocation:**  var xhr = new XMLHttpRequest();  xhr.open("POST", 'http://<API\_ENDPOINT\_IP\_AND\_PORT>/api/V1/analyze-tone', true);  xhr.setRequestHeader('Access-Control-Allow-Headers', '\*')  xhr.setRequestHeader("Content-type", "application/json");  xhr.setRequestHeader('Access-Control-Allow-Origin', '\*');  xhr.onreadystatechange = function(){  console.log(xhr);  if (xhr.readyState == 4 && xhr.status == 200) {  alert(xhr.responseText);  }  };  var value = JSON.stringify ({  id: "<API\_ACCESS\_ID>",  apikey: "<API\_ACCESS\_KEY>",  data: "Text string for emotional tone analysis."});  xhr.send(value);  **III. Sample response**  {"status":"OK","usage":"By accessing IBM AbilityLab Content Clarifier API or using information generated by IBM AbilityLab Content Clarifier API, you are agreeing to be bound by the IBM AbilityLab Content Clarifier API Terms of Use.","tones":[{"tone":"Anger","score":0.181788},{"tone":"Disgust","score":0.122075},{"tone":"Fear","score":0.056311},{"tone":"Joy","score":0.511706},{"tone":"Sadness","score":0.186561}],"sentences":[{"sentence":"{\"text\":\"Players on the batting team take turns hitting against the pitcher of the fielding team, which tries to prevent runs by getting hitters out in any of several ways.","tones":[{"tone":"Anger","score":0.292709},{"tone":"Disgust","score":0.207849},{"tone":"Fear","score":0.14635},{"tone":"Joy","score":0.02387},{"tone":"Sadness","score":0.367571}]},{"sentence":"A player on the batting team who reaches a base safely can later attempt to advance to subsequent bases during teammates turns batting, such as on a hit or by other means.","tones":[{"tone":"Anger","score":0.058262},{"tone":"Disgust","score":0.180523},{"tone":"Fear","score":0.041325},{"tone":"Joy","score":0.020324},{"tone":"Sadness","score":0.149241}]},{"sentence":"The teams switch between batting and fielding whenever the fielding team records three outs.","tones":[{"tone":"Anger","score":0.336436},{"tone":"Disgust","score":0.032364},{"tone":"Fear","score":0.010161},{"tone":"Joy","score":0.355333},{"tone":"Sadness","score":0.157387}]},{"sentence":"One turn batting for both teams, beginning with the visiting team, constitutes an inning.","tones":[{"tone":"Anger","score":0.12801},{"tone":"Disgust","score":0.099607},{"tone":"Fear","score":0.03038},{"tone":"Joy","score":0.169729},{"tone":"Sadness","score":0.098641}]},{"sentence":"A game is composed of nine innings, and the team with the greater number of runs at the end of the game wins.","tones":[{"tone":"Anger","score":0.028341},{"tone":"Disgust","score":0.144803},{"tone":"Fear","score":0.026692},{"tone":"Joy","score":0.595805},{"tone":"Sadness","score":0.092816}]},{"sentence":"Baseball has no game clock, although almost all games end in the ninth inning.\",\"tones\":\"emotion\"}","tones":[{"tone":"Anger","score":0.24697},{"tone":"Disgust","score":0.067303},{"tone":"Fear","score":0.082959},{"tone":"Joy","score":0.22219},{"tone":"Sadness","score":0.253713}]}],"original":"Players on the batting team take turns hitting against the pitcher of the fielding team, which tries to prevent runs by getting hitters out in any of several ways. A player on the batting team who reaches a base safely can later attempt to advance to subsequent bases during teammates turns batting, such as on a hit or by other means. The teams switch between batting and fielding whenever the fielding team records three outs. One turn batting for both teams, beginning with the visiting team, constitutes an inning. A game is composed of nine innings, and the team with the greater number of runs at the end of the game wins. Baseball has no game clock, although almost all games end in the ninth inning."}  IV. |