**AmazonSearch** needs **searchTerm** variable (string)

Returns array of searchResult objects. One such object is:

*{position: 9, title: 'Bee Harmony American Raw Orange Blossom Honey, 12 Ounce', asin: 'B075Y13QS2', link: 'https://www.amazon.com/gp/slredirect/picassoRedire…d1c8c-2fd2-4f19-aa41-2df022bcb241-spons%26psc%3D1', categories: Array(1), …}*

***asin****: "B075Y13QS2"*

***carousel****: {title: 'Highly rated', sub\_title: 'Based on star rating and number of customer ratings', sponsored: true, id: 'loom-desktop-inline-slot\_sptw-highly-rated-na'}*

***categories****: [{…}]*

***image****: "https://m.media-amazon.com/images/I/5182QnrTitL.\_AC\_UL320\_.jpg"*

***is\_carousel****: true*

***is\_prime****: true*

***is\_small\_business****: true*

***link****: "https://www.amazon.com/gp/slredirect/picassoRedirect.html/ref=pa\_sp\_search\_thematic\_aps\_sr\_pg1\_2?ie=UTF8&adId=A07823912VSE2TNSR067G&qualifier=1675302461&id=4222105069844149&widgetName=sp\_search\_thematic&url=%2FBee-Harmony-American-Orange-Blossom%2Fdp%2FB075Y13QS2%2Fref%3Dsxin\_15\_pa\_sp\_search\_thematic\_sspa%3Fcontent-id%3Damzn1.sym.fe3abdfa-d248-4e07-8b0d-b8a0a47d4a6c%253Aamzn1.sym.fe3abdfa-d248-4e07-8b0d-b8a0a47d4a6c%26cv\_ct\_cx%3Dhoney%26keywords%3Dhoney%26pd\_rd\_i%3DB075Y13QS2%26pd\_rd\_r%3Dc646b68a-98fa-4cdd-bb3b-c76fb4b2599e%26pd\_rd\_w%3DIr8RJ%26pd\_rd\_wg%3D4qBdD%26pf\_rd\_p%3Dfe3abdfa-d248-4e07-8b0d-b8a0a47d4a6c%26pf\_rd\_r%3DCDFVS0ADTTJQQCKJAAQX%26qid%3D1675302461%26sr%3D1-2-a73d1c8c-2fd2-4f19-aa41-2df022bcb241-spons%26psc%3D1"*

***position****: 9*

***price****: {symbol: '$', value: 13.95, currency: 'USD', raw: '$13.95', name: '$13.95', …}*

***prices****: [{…}]*

***rating****: 4.6*

***ratings\_total****: 2320*

***sponsored****: true*

***title****: "Bee Harmony American Raw Orange Blossom Honey, 12 Ounce"*

Another is:

1. *{position: 16, title: 'Ambrosia Gently Strained Honey, 48 oz. Bottle (Pac…ney | US Honey | Liquid Sweetener, BROWN, 3 Pound', asin: 'B00BGL3WR0', link: 'https://www.amazon.com/AMBROSIA-Strained-Natural-S…ref=sr\_1\_11?keywords=honey&qid=1675302461&sr=8-11', categories: Array(1), …}*
   1. **asin**: "B00BGL3WR0"
   2. **categories**: [{…}]
   3. **image**: "https://m.media-amazon.com/images/I/61rlssKlc4L.\_AC\_UL320\_.jpg"
   4. **is\_prime**: true
   5. **is\_small\_business**: true
   6. **link**: "https://www.amazon.com/AMBROSIA-Strained-Natural-Sweetener-Alternative/dp/B00BGL3WR0/ref=sr\_1\_11?keywords=honey&qid=1675302461&sr=8-11"
   7. **position**: 16
   8. **price**: {symbol: '$', value: 15.34, currency: 'USD', raw: '$15.34', name: '$15.34', …}
   9. **prices**: [{…}]
   10. **rating**: 4.6
   11. **ratings\_total**: 385
   12. **title**: "Ambrosia Gently Strained Honey, 48 oz. Bottle (Pack of 1) | Natural Sweetener, Sugar Alternative | 100% Pure Honey | US Honey | Liquid Sweetener, BROWN, 3 Pound"
   13. [[Prototype]]: Object

**productSearch** needs **asin** variable (string)

Returns an Object that looks like this:

1. *{request\_info: {…}, request\_parameters: {…}, request\_metadata: {…}, product: {…}, brand\_store: {…}, …}*
   1. **also\_bought**: (6) [{…}, {…}, {…}, {…}, {…}, {…}]
   2. **brand\_store**: {id: '9A2F9319-751B-4B61-9F86-109E3DB5A004', link: 'https://www.amazon.com/stores/BeeHarmonyHoney/page/9A2F9319-751B-4B61-9F86-109E3DB5A004'}
   3. **frequently\_bought\_together**: {total\_price: {…}, products: Array(3)}
   4. **product**: {title: 'Bee Harmony American Raw Orange Blossom Honey, 12 Ounce Orange Blossom 12 Ounce (Pack of 1)', search\_alias: {…}, title\_excluding\_variant\_name: 'Bee Harmony American Raw Orange Blossom Honey, 12 Ounce', keywords: 'Bee,Harmony,American,Raw,Orange,Blossom,Honey,,12,Ounce', keywords\_list: Array(6), …}
   5. **request\_info**: {success: true, credits\_used: 331, credits\_used\_this\_request: 1, credits\_remaining: 169, credits\_reset\_at: '2023-02-28T15:24:51.000Z'}
   6. **request\_metadata**: {created\_at: '2023-02-02T01:47:51.738Z', processed\_at: '2023-02-02T01:48:04.848Z', total\_time\_taken: 13.11, amazon\_url: 'https://www.amazon.com/dp/B075Y13QS2?th=1&psc=1'}
   7. **request\_parameters**: {amazon\_domain: 'amazon.com', type: 'product', asin: 'B075Y13QS2'}
   8. **similar\_to\_consider**: {asin: 'B07MG95VFP', link: 'https://www.amazon.com/dp/B07MG95VFP/ref=vp\_d\_pb\_T…26a6&pd\_rd\_r=b6edbf52-00ef-404a-a832-39aefd3ea5ff', title: 'Amazon Brand - Happy Belly Raw Wildflower Honey, 32 oz (Previously Solimo) (Packaging May Vary)', rating: 4.5, ratings\_total: 15580, …}
   9. [[Prototype]]: Object

The Product End point contains the following, but all I need is the **brand**:

**product**:

* 1. **a\_plus\_content**: {has\_a\_plus\_content: true, has\_brand\_story: false, third\_party: false}
  2. **additional\_details**: [{…}]
  3. **additional\_details\_flat**: "Small Business: This product is from a small business brand. Support small."
  4. **asin**: "B00BGL3WR0"
  5. **attributes**: (5) [{…}, {…}, {…}, {…}, {…}]
  6. **bestsellers\_rank**: (2) [{…}, {…}]
  7. **bestsellers\_rank\_flat**: "Category: Grocery & Gourmet Food | Rank: 4714, Category: Honey | Rank: 33"
  8. **brand**: "Ambrosia"
  9. **buybox\_winner**: {maximum\_order\_quantity: {…}, subscribe\_and\_save: {…}, offer\_id: 'nW3uskR9+FvLLS21JTU6jFqDGxcn1rFrGi9YXxWLok+I8JFOl7…mZrhiGhpg55xEfw/kbepbMU5zo1sx1T7PjxXPDIvfwFi8tg==', is\_prime: true, is\_amazon\_fresh: false, …}
  10. **categories**: (5) [{…}, {…}, {…}, {…}, {…}]
  11. **categories\_flat**: "Grocery & Gourmet Food > Pantry Staples > Cooking & Baking > Baking Syrups, Sugars & Sweeteners > Honey"
  12. **description**: "AMBROSIA HONEY CO. Gently Strained Honey is our classic, bee-loved honey, gently strained and dripping in Colorado beekeeping tradition. Made from a 100% domestic varietal blend of U.S. honey, it features an aromatic, deep caramel flavor with lush floral notes. AMBROSIA HONEY COMPANY has been crafting artisan honey from American honey bees since 1973. We only use low-temperature melting and simple straining to maintain all the goodness in our pure honey that overheating and force filtering can destroy. This often takes days, not hours, like most other honey. While we haven't re-invented honey harvesting, we like to think we've perfected it. Our commitment to quality is reflected in our craft to bring you delicious pure and natural honey from American honey bees. Its rich, floral flavor, fruity finish, and slightly spicy notes are unlike any other honey you’ve ever tasted."
  13. **feature\_bullets**: (6) ['GENTLY STRAINED PURE HONEY: Taste aromatic, deep c… 48-ounce pourable bottle from AMBROSIA HONEY CO.', "ARTISAN CRAFTED HONEY: We've curated custom honey …r profiles harvested from specific floral sources", 'AUTHENTIC, NATURAL HONEY: 100% pure honey, direct from the farms', 'HONEY HARVESTED FROM U.S. BEEKEEPERS: Our honey is…rship with local beekeepers throughout the U.S.A.', "SIMPLE HONEY TASTES BETTER: Drizzle our gluten-fre…'ll agree our simple and pure honey tastes better", 'AMBROSIA HONEY COMPANY: Taste the other varieties … delicate spice finish of our Amber Harvest honey']
  14. **feature\_bullets\_count**: 6
  15. **feature\_bullets\_flat**: "AMBROSIA HONEY COMPANY: Taste the other varieties from AMBROSIA HONEY CO. —the warm butterscotch flavor and hints of cinnamon of our Golden Sunrise honey and the caramelized citrus flavors and delicate spice finish of our Amber Harvest honey. SIMPLE HONEY TASTES BETTER: Drizzle our gluten-free and kosher honey on toast, swirl it into tea, or eat it by the spoonful—however you eat it, we think you'll agree our simple and pure honey tastes better. HONEY HARVESTED FROM U.S. BEEKEEPERS: Our honey is harvested in partnership with local beekeepers throughout the U.S.A. AUTHENTIC, NATURAL HONEY: 100% pure honey, direct from the farms. ARTISAN CRAFTED HONEY: We've curated custom honey blends that highlight the unique flavor profiles harvested from specific floral sources. GENTLY STRAINED PURE HONEY: Taste aromatic, deep caramel flavor and lush floral notes with this pack of 1, 48-ounce pourable bottle from AMBROSIA HONEY CO."
  16. **gtin**: "052009830485"
  17. **images**: (4) [{…}, {…}, {…}, {…}]
  18. **images\_count**: 4
  19. **images\_flat**: "https://m.media-amazon.com/images/I/61rlssKlc4L.\_SL1250\_.jpg,https://m.media-amazon.com/images/I/71D10oDXkoL.\_SL1200\_.jpg,https://m.media-amazon.com/images/I/71WxT-X5MIL.\_SL1350\_.jpg,https://m.media-amazon.com/images/I/61-CcRkZyUL.\_SL1200\_.jpg"
  20. **important\_information**: {sections: Array(2)}
  21. **is\_bundle**: false
  22. **keywords**: "Ambrosia,Gently,Strained,Honey,,48,oz.,Bottle,(Pack,of,1),|,Natural,Sweetener,,Sugar,Alternative,|,100%,Pure,Honey,|,US,Honey,|,Liquid,Sweetener,,BROWN,,3,Pound"
  23. **keywords\_list**: (18) ['Ambrosia', 'Gently', 'Strained', 'Honey', 'Bottle', '(Pack', 'Natural', 'Sweetener', 'Sugar', 'Alternative', '100%', 'Pure', 'Honey', 'Honey', 'Liquid', 'Sweetener', 'BROWN', 'Pound']
  24. **link**: "https://www.amazon.com/AMBROSIA-Strained-Natural-Sweetener-Alternative/dp/B00BGL3WR0"
  25. **main\_image**: {link: 'https://m.media-amazon.com/images/I/61rlssKlc4L.jpg'}
  26. **manufacturer**: "Madhava"
  27. **marketplace\_id**: "ATVPDKIKX0DER"
  28. **material**: "Natural"
  29. **model\_number**: "B00BGL3WR0"
  30. **rating**: 4.6
  31. **rating\_breakdown**: {five\_star: {…}, four\_star: {…}, three\_star: {…}, two\_star: {…}, one\_star: {…}}
  32. **ratings\_total**: 385
  33. **search\_alias**: {title: 'Grocery & Gourmet Food', value: 'grocery'}
  34. **sell\_on\_amazon**: true
  35. **specifications**: (13) [{…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}]
  36. **specifications\_flat**: "GTIN: 052009830485. Best Sellers Rank: See Top 100 in Grocery & Gourmet Food. Country/Region Of Origin: United States. Material Feature: Natural. Package Information: Bottle. Weight: 48 Ounces. Brand: Ambrosia. Country of Origin: USA. ASIN: B00BGL3WR0. Manufacturer: Madhava. UPC: 052009830485. Item model number: B00BGL3WR0. Package Dimensions: 7.4 x 3.62 x 3.62 inches; 3 Pounds."
  37. **sub\_title**: {text: 'Visit the Ambrosia Store', link: 'https://www.amazon.com/stores/MadhavaNaturalSweete…8B650F44-6A75-4A4F-BCE7-6F3A72A7864D?ref\_=ast\_bln'}
  38. **title**: "Ambrosia Gently Strained Honey, 48 oz. Bottle (Pack of 1) | Natural Sweetener, Sugar Alternative | 100% Pure Honey | US Honey | Liquid Sweetener, BROWN, 3 Pound"
  39. **top\_reviews**: (8) [{…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}]
  40. **videos**: [{…}]
  41. **videos\_additional**: (4) [{…}, {…}, {…}, {…}]
  42. **videos\_count**: 1
  43. **videos\_flat**: "https://m.media-amazon.com/images/S/vse-vms-transcoding-artifact-us-east-1-prod/064c84b4-b346-4431-9aa1-e0b497e67271/default.jobtemplate.mp4.480.mp4"
  44. [[Prototype]]: Object

**googleSearch** needs **brandName** variable (string), as well as **searchTerm** from initial event Listener… which it cannot do as currently structured. It has now been moved up into the event listener.

The googleSearch returns an object array, but all I’m interested is what’s located inside the **items** end point.

1. *{kind: 'customsearch#search', url: {…}, queries: {…}, context: {…}, searchInformation: {…}, …}*
   1. **context**: {title: 'DavidSearch'}
   2. **items**: Array(1)

And inside items, what we need is:

1. *[{…}]*
   1. **0**:
      1. **cacheId**: "xdZb8tek0PgJ"
      2. **displayLink**: "www.beesponsible.com"
      3. **formattedUrl**: "https://www.beesponsible.com/honey/bee-harmony-honey/"
      4. **htmlFormattedUrl**: "https://www.<b>bees</b>ponsible.com/<b>honey</b>/<b>bee</b>-<b>harmony</b>-<b>honey</b>/"
      5. **htmlSnippet**: "Introducing <b>Bee Harmony Honey</b>, premium raw <b>honey</b> handcrafted for the love of bees. We make it the way nature intended, with bees drawing nectar from&nbsp;..."
      6. **htmlTitle**: "<b>Bee Harmony Honey</b> - Beesponsible"
      7. **kind**: "customsearch#result"
      8. **link**: "https://www.beesponsible.com/honey/bee-harmony-honey/"
      9. **pagemap**:
         1. **cse\_image**: Array(1)
            1. **0**: {src: 'https://www.beesponsible.com/wp-content/uploads/2019/05/Bee-Harmony-Honey-link-preview-v1.jpg'}
            2. **length**: 1
            3. [[Prototype]]: Array(0)
         2. **cse\_thumbnail**: [{…}]
         3. **metatags**: [{…}]
         4. [[Prototype]]: Object
      10. **snippet**: "Introducing Bee Harmony Honey, premium raw honey handcrafted for the love of bees. We make it the way nature intended, with bees drawing nectar from ..."
      11. **title**: "Bee Harmony Honey - Beesponsible"
      12. [[Prototype]]: Object
   2. **length**: 1
   3. [[Prototype]]: Array(0)

For some reason, I can’t access that all right now. But that is debugging for another day. For now, let’s set us some constants.

CONSTANT “VARIABLES” FOR HTML/CSS TESTING:

testResults = {

0: {**asin**: "B075Y1SXRK",

**image**: <https://m.media-amazon.com/images/I/51CyQtl3a3L._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/gp/slredirect/picassoRedirect.html/ref=pa_sp_search_thematic_aps_sr_pg1_5?ie=UTF8&adId=A07740433OR086UV6VT7B&qualifier=1675357267&id=5464841864507717&widgetName=sp_search_thematic&url=%2FBee-Harmony-American-Clover-Honey%2Fdp%2FB075Y1SXRK%2Fref%3Dsxin_15_pa_sp_search_thematic_sspa%3Fcontent-id%3Damzn1.sym.fe3abdfa-d248-4e07-8b0d-b8a0a47d4a6c%253Aamzn1.sym.fe3abdfa-d248-4e07-8b0d-b8a0a47d4a6c%26cv_ct_cx%3Dhoney%26keywords%3Dhoney%26pd_rd_i%3DB075Y1SXRK%26pd_rd_r%3D173ae32e-aa58-45fe-b137-df8b24196b2e%26pd_rd_w%3DfcsNw%26pd_rd_wg%3DCJg0v%26pf_rd_p%3Dfe3abdfa-d248-4e07-8b0d-b8a0a47d4a6c%26pf_rd_r%3DQ710T4B99DSEG6RMY0QJ%26qid%3D1675357267%26sr%3D1-5-a73d1c8c-2fd2-4f19-aa41-2df022bcb241-spons%26psc%3D1>,

**title**: "Bee Harmony American Clover Honey, 12 Ounce

}

1: {**asin**: "B00BGL3WR0",

**image**: <https://m.media-amazon.com/images/I/61rlssKlc4L._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/AMBROSIA-Strained-Natural-Sweetener-Alternative/dp/B00BGL3WR0/ref=sr_1_12?keywords=honey&qid=1675357267&sr=8-12>,

**title**: "Ambrosia Gently Strained Honey, 48 oz. Bottle (Pack of 1) | Natural Sweetener, Sugar Alternative | 100% Pure Honey | US Honey | Liquid Sweetener, BROWN, 3 Pound"

}

2: {**asin**: "B075Y13QS2",

**image**: <https://m.media-amazon.com/images/I/5182QnrTitL._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/gp/slredirect/picassoRedirect.html/ref=pa_sp_mtf_aps_sr_pg1_1?ie=UTF8&adId=A07823912VSE2TNSR067G&qualifier=1675357267&id=4081998657993713&widgetName=sp_mtf&url=%2FBee-Harmony-American-Orange-Blossom%2Fdp%2FB075Y13QS2%2Fref%3Dsr_1_14_sspa%3Fkeywords%3Dhoney%26qid%3D1675357267%26sr%3D8-14-spons%26psc%3D1>,

**title**: "Bee Harmony American Raw Orange Blossom Honey, 12 Ounce",

}

3: {**asin**: "B08JVMXZRM",

**image**: <https://m.media-amazon.com/images/I/81+h1fol-rL._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/gp/slredirect/picassoRedirect.html/ref=pa_sp_mtf_aps_sr_pg1_1?ie=UTF8&adId=A07739551ZVEPNOS28X72&qualifier=1675357267&id=4081998657993713&widgetName=sp_mtf&url=%2FBee-Harmony-Variety-Wildflower-Blossom%2Fdp%2FB08JVMXZRM%2Fref%3Dsr_1_16_sspa%3Fkeywords%3Dhoney%26qid%3D1675357267%26sr%3D8-16-spons%26psc%3D1>,

**title**: "Bee Harmony Honey 3 Pack Variety Pack, 36 Ounce (Clover, Wildflower and Orange Blossom)"

}

4: {**asin**: "B09CQGG97R",

**image**: <https://m.media-amazon.com/images/I/71+CFi6pmeL._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/gp/slredirect/picassoRedirect.html/ref=pa_sp_mtf_aps_sr_pg1_1?ie=UTF8&adId=A0529382D0TSUUQAQ42Q&qualifier=1675357267&id=4081998657993713&widgetName=sp_mtf&url=%2FRunamok-Hibiscus-Flower-Infused-Honey%2Fdp%2FB09CQGG97R%2Fref%3Dsr_1_22_sspa%3Fkeywords%3Dhoney%26qid%3D1675357267%26sr%3D8-22-spons%26psc%3D1%26smid%3DAQ3FDCIQG1U6J>,

**title**: "Runamok Hibiscus Flower Infused Honey - Authentic & Pure Honey | Gluten Free & Natural Sweetener | 9oz"

}

5: {**asin**: "B06W9L3RSY",

**image**: <https://m.media-amazon.com/images/I/71wCHECM3VL._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/gp/slredirect/picassoRedirect.html/ref=pa_sp_mtf_aps_sr_pg1_1?ie=UTF8&adId=A0335198CJ29BY02CQ0R&qualifier=1675357267&id=4081998657993713&widgetName=sp_mtf&url=%2FSandts-Unfiltered-Honey-Varietal-Bundle%2Fdp%2FB06W9L3RSY%2Fref%3Dsr_1_24_sspa%3Fkeywords%3Dhoney%26qid%3D1675357267%26sr%3D8-24-spons%26psc%3D1>,

**title**: "Sandt's Unfiltered Raw Honey Varietal Bundle - Golden, Clover & Orange Blossom (3 LBS)"

**}**

6: {**asin**: "B01IF9F46W",

**image**: <https://m.media-amazon.com/images/I/61qitGaheCL._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/Aunt-Sues-Raw-Wildflower-Honey/dp/B01IF9F46W/ref=sr_1_27?keywords=honey&qid=1675357267&sr=8-27>,

**title**: "Aunt Sue’s Raw & Unfiltered USA Wildflower Honey, 32 Ounce (2 LB) From Local USA Beekeepers, Strained Pure Honey"

}

7: { **asin**: "B07DRJ3Y9C",

**image**: <https://m.media-amazon.com/images/I/71JVghMnadS._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/Buzzn-Bee-Honey-Wildflower-Ounce/dp/B07DRJ3Y9C/ref=sr_1_30?keywords=honey&qid=1675357267&sr=8-30>,

**title**: "Florida Raw Apiaries | Raw and Unfiltered Wildflower Honey with Comb, 16 Ounce”

}

8: { **asin**: "B08C364BZP",

**image**: <https://m.media-amazon.com/images/I/81dVdN2h1NL._AC_UL320_.jpg>,

**is\_small\_business**: true,

**link**: <https://www.amazon.com/Honey-Acres-50ct-Unfiltered-Straws/dp/B08C364BZP/ref=sr_1_60?keywords=honey&qid=1675357267&sr=8-60>,

**title**: "Honey Acres' Raw Unfiltered Honey Straws - USA Honey Sticks (Clover, 50 Count)"

}