Notes /

Window

SYNONYMS APP   INFO

Saved Selections (session)   "concern"

1.   "about"   2. verb.

    "having to do with"   "as a subject matter"
      1: 6: "concerning"   +1   1. 0: "cover"
    "having to do with"   1: "deal (with)"
      1: 6: "involve"   +4   2: "pertain (to)"
    "having to do with"   3: "treat (of)"
      1: 6: "immerse"   +3
    "having to do with"   "to be the business or affair of"
      1: 6: "dive"   +1   2. 0: "affect"
                                                              1: "involve"
2.   "opinionated"   2: "touch"

    "having to do with"   0: "agitate"
      1: 6: "dogmatic"   +1   1: "ail"
    "having to do with"   3.   2: "alarm (also alarum)"
      1: 6: "stern"   +2   3: "bother"
    "having to do with"   4: "concern"
      1: 6: "stiff"   +1   5: "derail"
    "having to do with"   6: "discomfort"
      1: 6: "stubborn"   +1   7: "discompose"
                                                              8: "dismay"
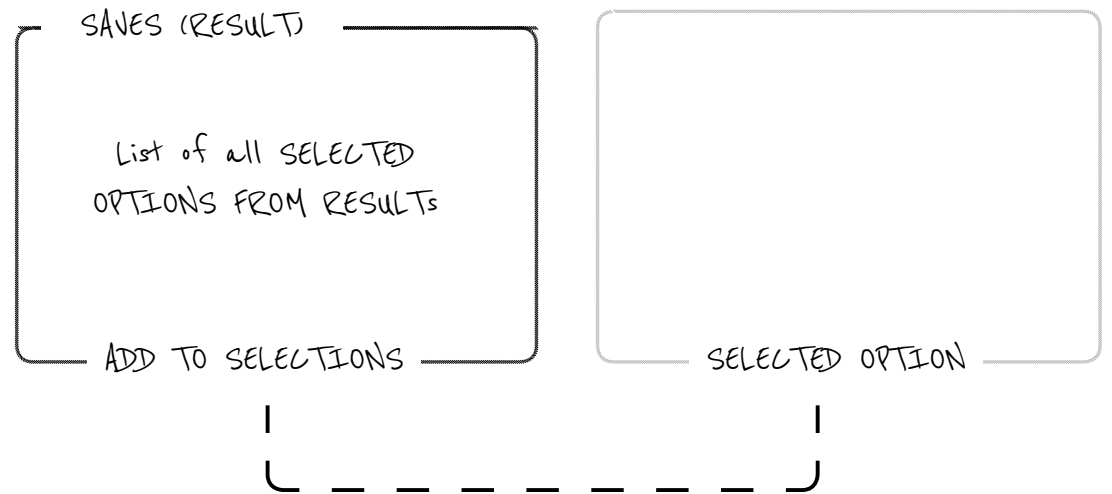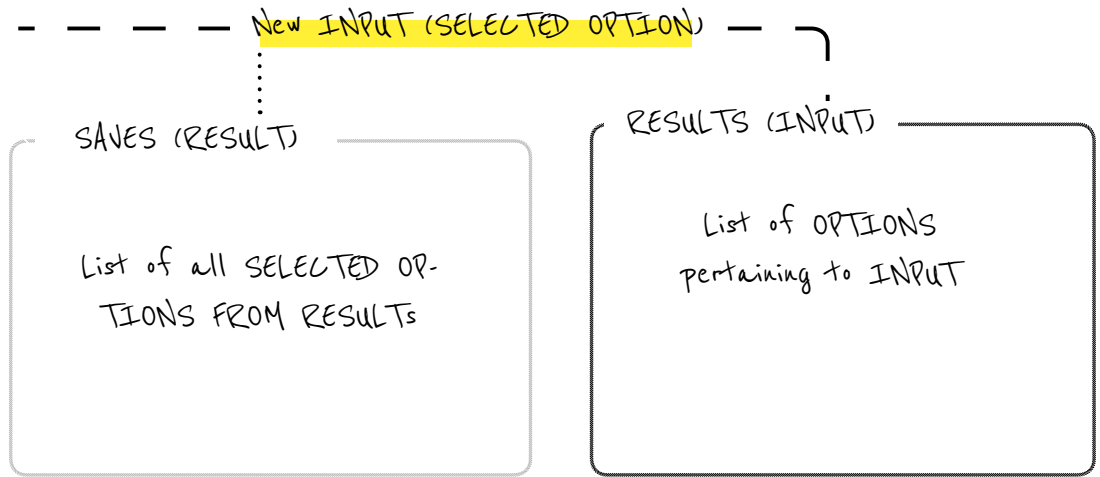   9: "disquiet"
         — Clear all —   10: "distemper"
                                                             11: "distract"
         — Start a new search —
                                                             ——— 14 more —

"to have (something)"

"to trouble the mind of; to make uneasy"

INPUT

SAVES

RESULTS

INPUT

SAVES (RESULT)

RESULTS (INPUT)

List of OPTIONS
pertaining to INPUT

SAVES (RESULT)

List of all SELECTED
OPTIONS FROM RESULTs

ADD TO SELECTIONS

SELECTED OPTION

New INPUT (SELECTED OPTION)

SAVES (RESULT)

List of all SELECTED OP-
TIONS FROM RESULTs

RESULTS (INPUT)

List of OPTIONS
pertaining to INPUT

Notes /

Window

INPUT - (SELECTED OPTION)

SAVES (RESULT)

List of all SELECTED OP-
TIONS FROM RESULTs

ADD TO SELECTIONS

RESULTS (INPUT)

List of OPTIONS
pertaining to INPUT

SELECTED OPTION

what it is essentially...

RESULTS
IS A LIST OF PRODUCTS

SELECTIONS
IS A SHOPPING CART

USES REDUCER

Selections

Session 1 (Input 1)

Input 1	about	— X —
Selection 1	as far as	— X —
Selection 2	as to	— X —
Selection 3	concerning	— X —

— Clear All —

— Search New Word —

USES API

Results (Input 1)

Result 1

Option 1	"apropos"
Option 2	"as far as"
Option 3	"as to"
Option 4	"concerning"

— 9 more —

Result 1

Option 1	"around"
Option 2	"by"
Option 3	"near"
Option 4	"next to"

— 1 more —

— 1 more —

```
Input(searchText)
  onChange(
      startSelectionsSession(searchText)
      addToSelections(searchText)
      loadNewResults (searchText)
      collapseAfterSearch()
                              )
```
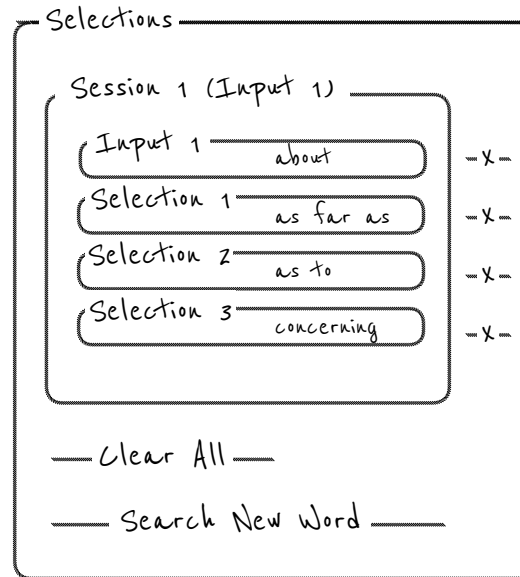
```
Selections
  SelectionsSession(Input)
      Selection(Option)
          onDelete(Selection)
  onClear(Session)
  onAdd(
    dispatch(
      Result(addToSelections(Option)
```
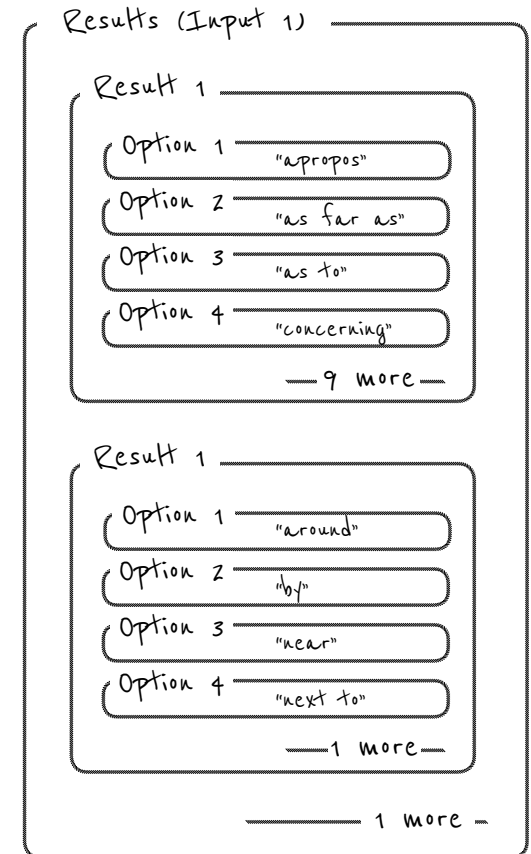
```
Results(Input)
  Result
      Option
          onChange(
              addToSelections(Option)
              loadNewResults (Option)
                              )
```

*Server-side props for new user?
*Session starter for new user?
*Deep-merge for return user?

dictionaryapi's thesaurus extension is
the endpoint API.

Each response represents an instance
of a searched word's result.

The following data must be extracted
from the response, and assigned as
properties of a result object:

"syns" aka synonyms
"shortdef" aka definitions
"fl" aka word label

JSON response for query:

"about"

```
[
  {
    "meta": {
      "id": "about",
      "uuid": "9b657588-3fdb-45a0-8cb4-93a916809301",
      "src": "coll_thes",
      "section": "alpha",
      "target": {
        "tuuid": "8e8b21c7-6861-4461-ba88-e9b7f9999963",
        "tsrc": "collegiate"
      },
      "stems": [
        "about"
      ],
      "syns": [
        [
          "apropos",
          "apropos of",
          "as far as",
          "as for",
          "as regards",
          "as to",
          "concerning",
          "of",
          "on",
          "regarding",
          "respecting",
          "touching",
          "toward"
        ],
        [
          "around",
          "by",
          "near",
          "next to",
          "nigh"
        ],
        [
          "across",
          "around",
          "over",
          "round",
          "through",
          "throughout"
        ]
      ],
      "ants": [],
      "offensive": false
    },
    "hwi": {
      "hw": "about"
    },
    "fl": "preposition",
    "def": [ _ ], // 1 item
    "shortdef": [
      "having to do with",
      "close to",
      "in random positions within the boundaries of"
    ]
  },
```

The JSON response from dictionaryapi requires some navigating in order to hold certain properties for certain components.

Most of the important data are in the "meta" header. However, the more "complete" object schemas are 6 levels deep.

Consider an effective way to manage the data given that:

graphql schemas?

apollo-server schemas

We may want to deep-merge a user's previous session with a current one.

New users will see ServerSideProps from a pre-selected random word.

"Saving" a word could build a database? Or is the data lifecycle per browser session only?

Either way, find a way to format the response, or write service functions that cleans up every

```
def : [
  {
    "sseq": [
      [
        [
          "sense",
          {
            "sn": "1",
            "dt": [
              {
                "text",
                "having to do with "
              },
              [
                "vis",
                [
                  {
                    "t": "a poignant story {it}about{/it}
                    a young man who goes off to war"
                  }
                ]
              ]
            ]
          }
        ],
        "syn_list": [
          [
            {
              "wd": "apropos"
            },
            {
              "wd": "apropos of"
            },
            {
              "wd": "as far as"
            },
            {
              "wd": "as for"
            },
            {
              "wd": "as regards",
              "wvrs": [
                {
                  "wvl": "also",
                  "wva": "as respects"
                }
              ]
            },
            {
              "wd": "as to"
            },
            {
              "wd": "concerning"
            },
            {
              "wd": "of"
            },
            {
              "wd": "on"
            },
            {
              "wd": "regarding"
            },
            {
              "wd": "respecting"
            },
            {
              "wd": "touching"
            },
            {
              "wd": "toward",
              "wvrs": [
                {
                  "wvl": "or",
                  "wva": "towards"
                }
              ]
            }
          ]
        ]
```

WITH A LITTLE HELP....

mw-dict

Node.js Wrapper for Merriam Webster Dictionary Developer API

- Supports Collegiate® Dictionary & Learner's Dictionary
- Supports Collegiate® Thesaurus
- Exports word senses with hierarchy (sense, subsense...)
- Outputs pronunciation audio url
- Cares about functional label, synonyms, verbal illustrations ...
- Outputs popularity

Preview:

'screen shot'

Note: Please get your API Key from Merriam-Webster's Developer Center

install

```
npm install mw-dict
```

usage

```
import { CollegiateDictionary, LearnersDictionary, CollegiateThesaurus } from 'm

const dict = new CollegiateDictionary(API_KEY)
// const dict = new LearnersDictionary(API_KEY)
// const thesaurus = new CollegiateThesaurus(API_KEY)

dict
  .lookup(QUERY_WORD)
  .then(result => {})
  .catch(error => {})
```

result interface

```
// result: Definition[]
// Definition
{
  word: String,
  functional_label: String,
  pronunciation: String[],
  definition: Sense[],
  popularity: String
}
// Sense
{
  number: String,
  meanings: String[],
  synonyms: String[],
  antonyms: String[],
  illustrations: String[],
  senses: Sense[]
}
```

Error handler

```
import { WordNotFoundError } from 'mw-dict'

dict
  .lookup(QUERY_WORD)
  .catch(error => {
    if (error instanceof WordNotFoundError) {
      // error.suggestion
    }
  })
```

RESULTS SCOPE (the products)

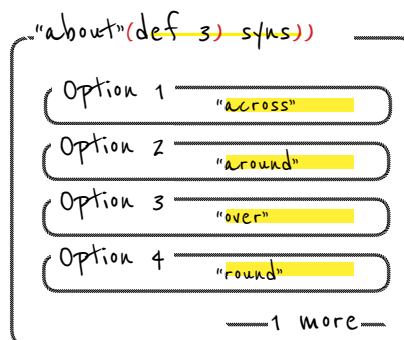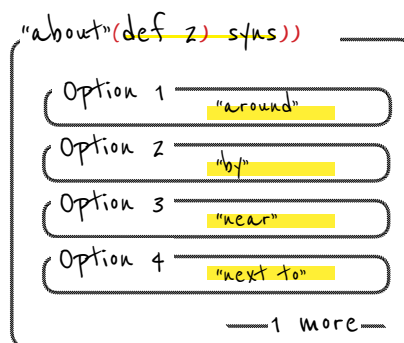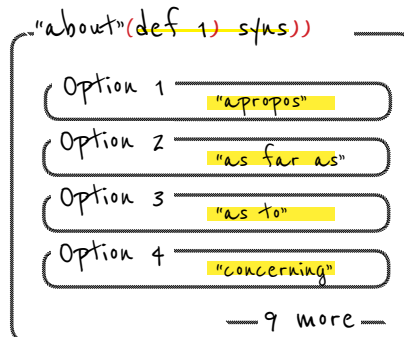The results component contains the current instance of a search.

Results are shown following each call to the Thesaurus API.

The results component is essentially a list of products (presented as options) that refreshes upon each "selection click" event.

The selected option fires a new search for new synonyms of the selected word from the list of results.

For each definition of "about", return a list of its synonyms

Results ("about")

Results Component

"about" (def 1) syns))

Option 1	"apropos"
Option 2	"as far as"
Option 3	"as to"
Option 4	"concerning"

— 9 more —

"about" (def 2) syns))

Option 1	"around"
Option 2	"by"
Option 3	"near"
Option 4	"next to"

— 1 more —

"about" (def 3) syns))

Option 1	"across"
Option 2	"around"
Option 3	"over"
Option 4	"round"

— 1 more —

INSTANTIATED RESULTS OBJECT VIA "ABOUT" AS INPUT ARGUMENT.

- 3 sets of synonyms.

- 1 for each definition of "about"

"shortdef": [
   "having to do with",
   "close to",
   "in random positions within the boundaries of"

Results
Result
Options

*Server-side props for new user?
*Session starter for new user?
*Deep-merge for return user?

JAN 2021

The selections component contains every selected word that fires an API call, starting with the initial search input.
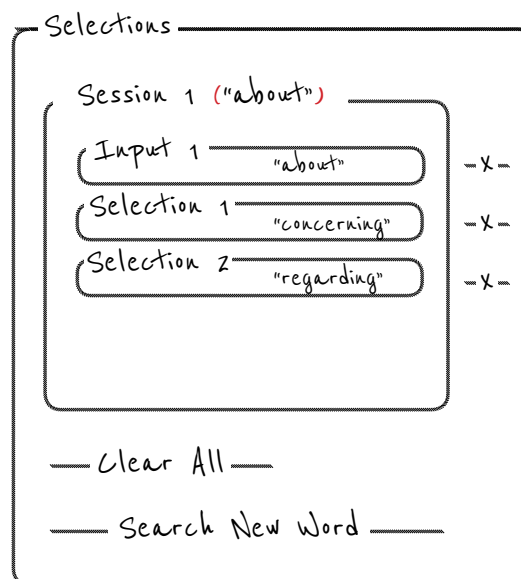
A Selections Session is instantiated by the very first search word.

The Selections component is essentially a shopping cart of selected items from the Results Options.

Each selection in Selections saves prop- from the Results family it came from (definition, label, sentence)

This "basket" offers the ability to de- lete items and/or clear all.

Items are automatically added upon each click from Results.

Selections

Session 1 ("about")

Input 1	"about"	— X —
Selection 1	"concerning"	— X —
Selection 2	"regarding"	— X —

— Clear All —

— Search New Word —

Add all selected "about" options to a list, Save Result(option) data as properties of Session(selection)

CURRENT RESULTS ARE FOR "REGARDING"

"REGARDING" WAS SE- LECTED FROM RESULT OF "CONCERNING"

"CONCERNING WAS THE FIRST SELECTION FROM "ABOUT" RESULTS

THE INITIAL SEARCH QUERY "ABOUT" IS THE FIRST ITEM ON THE SAVED LIST.

ANY AND ALL ITEMS CAN BE DELETED.

STARTING A NEW SEARCH QUERY CREATES A NEW SESSION.

EACH SESSION IS CON- CATENATED TO THE OVERALL "CART"

Notes /

Results Component

JAN 2021

NO HISTORY DETECTED...

NEW USER INITIALIZED...

LANDING SCREEN LOADED...

———— SAVES ————————————— Results ————

INPUT ——————————————

SEARCH A WORD . . .

Notes /

Window

USER TYPES "ABOUT"

10 RESULTS FOR "ABOUT"

```
▼ (10) [{…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}, {…}] ▣
 ▶ 0: {word: "about", functional_label: "adverb", definition: Array(
 ▶ 1: {word: "about", functional_label: "preposition", definition: A
 ▶ 2: {word: "about-face", functional_label: "noun", definition: Arr
 ▶ 3: {word: "about-turn", functional_label: "noun", definition: Arr
 ▶ 4: {word: "bring about", functional_label: "verb", definition: Ar
 ▶ 5: {word: "cast about   for", functional_label: "verb", definitio
 ▶ 6: {word: "come about", functional_label: "verb", definition: Arr
 ▶ 7: {word: "get about", functional_label: "verb", definition: Arra
 ▶ 8: {word: "hang about", functional_label: "verb", definition: Arr
 ▶ 9: {word: "how", functional_label: "adverb", definition: Array(1)
   length: 10
 ▶  proto  : Array(0)
```

For this iteration,

MATCH WITH RESULTS[0] AND [1]

AT the very least, show these two results.

(Potential to return all results as un-shown tabs)

1. adverb.

"on all sides in every direction"

1: "round"

"toward the opposite direction"

INPUT

"ABOUT"   (loading...)

3: "fair [chiefly British]"

4: "fairly" ——————— 13 more—

"close to but not exactly"

1: "around"

2: "like"

3: "more or less"

4: "much" ——————— 6 more —

"in one place and another"

1: "around"

2: "passim"

2. preposition

"having to do with"

0: "apropos"

1: "apropos of"

2: "as far as"

3: "as for"

4: "as regards (also as respects)"

"close to"

1: "by"

2: "near"

3: "next to"

4: "nigh"

"in random positions within the…

1: "across"

2: "over"

3: "round"

4: "through"

RESULTS [0]

ADVERB
WITH **5** "SENSES" or ways of
being used.

RESULTS [1]

PREPOSITION
WITH **3** "SENSES" or ways of
being used.

EACH SENSE CONTAINS:

ITS OWN **MEANING**
ITS OWN "SENSE **NUMBER**"
ITS OWN **SYNONYMS**
ITS OWN **ILLUSTRATION**
(sentence example)

RESULTS [0]
1. adverb.

```
▼definition: Array(5)
  ▼0: Sense
    ▶illustrations: ["people standing about waiting for a salesc
    ▶meanings: ["on all sides or in every direction"]
     number: "1"
    ▶synonyms: (2) ["about", "round"]
    ▶__proto__: Object
  ▼1: Sense
    ▶illustrations: ["turned about and saw the dog following hin
    ▶meanings: ["toward the opposite direction"]
     number: "2"
    ▶synonyms: (4) ["about", "back", "backward (or backwards)",
    ▶__proto__: Object
  ▼2: Sense
    ▶illustrations: ["about as many women as men signed up for t
    ▶meanings: ["very close to but not completely"]
     number: "3"
    ▶synonyms: (17) ["about", "all but", "borderline", "fair [ch
    ▶__proto__: Object
  ▼3: Sense
    ▶antonyms: (2) ["exactly", "precisely"]
    ▶illustrations: ["it's about a mile to the nearest gas stati
    ▶meanings: ["close to but not exactly"]
     number: "4"
    ▶synonyms: (10) ["about", "around", "like", "more or less",
    ▶__proto__: Object
  ▼4: Sense
    ▶illustrations: ["his garage was a dirty, cluttered place wi
    ▶meanings: ["in one place and another"]
     number: "5"
    ▶synonyms: (3) ["about", "around", "passim"]
    ▶__proto__: Object
  length: 5
  ▶__proto__: Array(0)
functional_label: "adverb"
popularity: null
word: "about"
```

1: "around"

2: "like"

3: "more or less"

4: "much" ———————— 6 more —

"in one place and another"

1: "around"

2: "passim"

RESULTS [1]
2. preposition

```
▼definition: Array(3)
  ▼0: Sense
    ▶illustrations: ["a poignant story about a young man who g
    ▶meanings: ["having to do with"]
     number: "1"
    ▶synonyms: (13) ["apropos", "apropos of", "as far as", "as
    ▶__proto__: Object
  ▼1: Sense
    ▶illustrations: ["about the hedge there was a picket fence
    ▶meanings: ["close to"]
     number: "2"
    ▶synonyms: (5) ["about", "by", "near", "next to", "nigh"]
    ▶__proto__: Object
  ▼2: Sense
    ▶illustrations: ["sparrows hopping about the lawn near the
    ▶meanings: ["in random positions within the boundaries of"
     number: "3"
    ▶synonyms: (6) ["about", "across", "over", "round", "throu
    ▶__proto__: Object
  length: 3
  ▶__proto__: Array(0)
functional_label: "preposition"
popularity: null
word: "about"
```

11: "touching"

12: "toward (or towards)"

"close to"

1: "by"

2: "near"

3: "next to"

4: "nigh"

"in random positions within the...

1: "across"

2: "over"

3: "round"

4: "through"

Window

Window

WORDS
IN SYNONYMS
OF EACH SENSE

load to fill up the larger container: i.e. all 12 results for "having to do with" are shown vs. collapsed totals in others.

SENSE BOXES
FOR EACH SENSE
ARE LABELED BY
ITS SENSE DEFINITION

running bottom to top on the left side, and wrap along the box path relatively.

"about"

1. adverb.

1. "on all sides in every direction"
   - 1: "round"

2. "toward the opposite direction"
   - 1: "back"
   - 2: "backward (or backwards)"
   - 3: "round"

3. "very close to but not completely"
   - 1: "all but"
   - 2: "borderline"
   - 3: "fair [chiefly British]"
   - 4: "fairly" ———————— 13 more

4. "close to but not exactly"
   - 1: "around"
   - 2: "like"
   - 3: "more or less"
   - 4: "much" ———————— 6 more

5. "in one place and another"
   - 1: "around"
   - 2: "passim"

2. preposition.

1. "having to do with"
   - 0: "apropos"
   - 1: "apropos of"
   - 2: "as far as"
   - 3: "as for"
   - 4: "as regards (also as respects)"
   - 5: "as to"
   - 6: "concerning"
   - 7: "of"
   - 8: "on"
   - 9: "regarding"
   - 10: "respecting"
   - 11: "touching"
   - 12: "toward (or towards)"

2. "close to"
   - 1: "by"
   - 2: "near"
   - 3: "next to"
   - 4: "nigh"

3. "in random positions within the boundaries of"
   - 1: "across"
   - 2: "over"
   - 3: "round"
   - 4: "through"

EACH RESULT LIST FOR THE QUERY WORD

can potentially be collapsed in tabs.

THUS CONSIDER...

RETURNING ALL RESULTS FOR THE QUERY WORD

(Not just the ones that literally match the string "about")

```
▶ 0: {word: "about", functional_label: "adverb", de
▶ 1: {word: "about", functional_label: "preposition"
▶ 2: {word: "about-face", functional_label: "noun",
▶ 3: {word: "about-turn", functional_label: "noun",
▶ 4: {word: "bring about", functional_label: "verb"
▶ 5: {word: "cast about    for", functional_label: "
▶ 6: {word: "come about", functional_label: "verb",
▶ 7: {word: "get about", functional_label: "verb",
▶ 8: {word: "hang about", functional_label: "verb",
▶ 9: {word: "how", functional_label: "adverb", defi
  length: 10
```

"about"

1. adverb.   2. preposition.

1. "on all sides in every direction"
   - 1: "round"

2. "toward the opposite direction"
   - 1: "back"
   - 2: "backward (or backwards)"
   - 3: "round"

3. "very close to but not completely"
   - 1: "all but"
   - 2: "borderline"
   - 3: "fair [chiefly British]"
   - 4: "fairly" ——————— 13 more —

4. "close to but not exactly"
   - 1: "around"
   - 2: "like"
   - 3: "more or less"
   - 4: "much" ——————— 6 more —

5. "in one place and another"
   - 1: "around"
   - 2: "passim"

Collapses to tab on mobile

Window

OPTION:

ALL RESULTS
CAN BE CONCATENATED
TO ONE LIST

AND/ OR

NOT FEATURE HOW IN-STANCES ARE DIFFERENT FROM EACH OTHER

"about"

1. adverb.

   1. "ides in every direction"
      "on all
      1: "round"

   2. site direction"
      "toward the oppo
      1: "back"
      2: "backward (or backwards)"
      3: "round"

   3. mpletely"
      "very close to but not co
      1: "all but"
      2: "borderline"
      3: "fair [chiefly British]"
      4: "fairly" ———————— 13 more —

   4. "close to but not exactly"
      1: "around"
      2: "like"
      3: "more or less"
      4: "much" ———————— 6 more —

   5. and another
      "in one place
      1: "around"
      2: "passim"

2. preposition.

   1. "having to do with"
      0: "apropos"
      1: "apropos of"
      2: "as far as"
      3: "as for"
      4: "as regards (also as re-spects)"
      5: "as to"

and/or fills 100% and
follows first box

USER SELECTS
"CONCERNING"

OF
"ABOUT"
    > **RESULT 1**
      > **SENSE 1**
        > **AT INDEX 6**

"about"

1. adverb.

1. "on all sides in every direction"
   - 1: "round"

2. "toward the opposite direction"
   - 1: "back"
   - 2: "backward (or backwards)"
   - 3: "round"

3. "very close to but not completely"
   - 1: "all but"
   - 2: "borderline"
   - 3: "fair [chiefly British]"
   - 4: "fairly" ———————— 13 more

4. "close to but not exactly"
   - 1: "around"
   - 2: "like"
   - 3: "more or less"
   - 4: "much" ———————— 6 more

5. "in one place and another"
   - 1: "around"
   - 2: "passim"

2. preposition.

1. "having to do with"
   - 0: "apropos"
   - 1: "apropos of"
   - 2: "as far as"
   - 3: "as for"
   - 4: "as regards (also as respects)"
   - 5: "as to"
   - 6: "concerning"
   - 7: "of"
   - 8: "on"
   - 9: "regarding"
   - 10: "respecting"
   - 11: "touching"
   - 12: "toward (or towards)"

2. "close to"
   - 1: "by"
   - 2: "near"
   - 3: "next to"
   - 4: "nigh"

3. "in random positions within the boundaries of"
   - 1: "across"
   - 2: "over"
   - 3: "round"
   - 4: "through"

TWO RESULTS

RESULT[0] *"CONCERNING"*
RESULT [1] *"CONCERN"*

```
                                                    ind
▼ (2) [{...}, {...}]
  ▼ 0:
    ▼ definition: Array(1)
      ▼ 0: Sense
        ▶ illustrations: ["we had a meeting with the principal today concernin
        ▶ meanings: ["having to do with"]
        ▶ synonyms: (13) ["apropos", "apropos of", "as far as", "as for", "as
        ▶ __proto__: Object
          length: 1
      ▶ __proto__: Array(0)
      functional_label: "preposition"
      popularity: null
      word: "concerning"
    ▶ __proto__: Object
  ▼ 1:
    ▼ definition: Array(3)
      ▶ 0: Sense {number: "1", meanings: Array(1), illustrations: Array(1), s
      ▶ 1: Sense {number: "2", meanings: Array(1), illustrations: Array(1), s
      ▶ 2: Sense {number: "3", meanings: Array(1), illustrations: Array(1), s
        length: 3
      ▶ __proto__: Array(0)
      functional_label: "verb"
      word: "concern"
```

"CONCERING"
　　RESULT[0]
　　　　SENSE[0]

　　　is the same as

"ABOUT"
　　RESULT[1]
　　　　SENSE 2 *"having to do with"*

RETURN **ALL BUT THAT.** and
INCREMENT A SCORE MARKER **IN**
THE SAVED INSTANCE

Window

Saved Selections (session)

1. "about" _____

1. ̶h̶a̶v̶i̶n̶g to do with"
　　　　1: 6: "concerning"

"concerning" _____

_____
_____
_____
_____
_____
_____
_____
_____
_____

first instance of cart

cart takes up half the
screen persistently

results loads new results

loading state is animation
of the lines scrolling

— Notes /

"CONCERNING"
RESULT[1] as in "Concern"

has **3 SENSES**

```
▼1:
  ▼definition: Array(3)
    ▼0: Sense
      ▶illustrations: ["the book concerns the challenges face
      ▶meanings: ["to have (something) as a subject matter"]
       number: "1"
      ▶synonyms: (4) ["cover", "deal (with)", "pertain (to)",
      ▶__proto__: Object
    ▼1: Sense
      ▶illustrations: ["the problems of air and water polluti
      ▶meanings: ["to be the business or affair of"]
       number: "2"
      ▶synonyms: (3) ["affect", "involve", "touch"]
      ▶__proto__: Object
    ▼2: Sense
      ▶antonyms: (6) ["calm", "compose", "quiet", "settle",
      ▶illustrations: ["we were greatly concerned by reports
      ▶meanings: ["to trouble the mind of; to make uneasy"]
       number: "3"
      ▶synonyms: (26) ["agitate", "ail", "alarm (also alarum)
      ▶__proto__: Object
     length: 3
    ▶__proto__: Array(0)
   functional_label: "verb"
   word: "concern"
```

Window

Saved Selections (session)

1. "about"

1. having a to do with" | 1: 6: "concerning"   **+1**

this particular sense of "about" has appeared this many times out of the number of all selections

naturally, the meaning instance of a term will show up as one of the synonyms of the query word

"concern"

2. verb.

) as a subject matter"

1. "to have (something)
    0: "cover"
    1: "deal (with)"
    2: "pertain (to)"
    3: "treat (of)"

2. "to be the business or affair of"
    0: "affect"
    1: "involve"
    2: "touch"

3. "to trouble the mind of; to make uneasy"
    0: "agitate"
    1: "ail"
    2: "alarm (also alarum)"
    3: "bother"
    4: "concern"
    5: "derail"
    6: "discomfort"
    7: "discompose"
    8: "dismay"
    9: "disquiet"
    10: "distemper"
    11: "distract"
    12: "distress"
    13: "exercise"
    14: "flurry"
    15: "frazzle"
    16: "freak (out)"
    17: "fuss"
    18: "hagride"
    19: "perturb" ———— 7 more —

USER SELECTS "INVOLVE"

```
▼ [{–}] ▮
 ▼ 0:
  ▼ definition: Array(4)
    ▼ 0: Sense
      ▶ illustrations: ["this isn't something that involves you,
      ▶ meanings: ["to be the business or affair of"]
        number: "1"
      ▶ synonyms: (3) ["affect", "involve", "touch"]
      ▶ __proto__: Object
    ▼ 1: Sense
      ▶ antonyms: (4) ["exclude", "leave (out)", "miss out [Brit
      ▶ illustrations: ["a tragic play usually involves a number
      ▶ meanings: ["to have as part of a whole"]
        number: "2"
      ▶ synonyms: (10) ["carry", "comprehend", "contain", "embra
      ▶ __proto__: Object
    ▼ 2: Sense
      ▶ illustrations: ["her blissful daydream so completely inv
      ▶ meanings: ["to hold the attention of"]
        number: "3"
      ▶ synonyms: (14) ["absorb", "bemuse", "busy", "catch up",
      ▶ __proto__: Object
    ▼ 3: Sense
      ▶ illustrations: ["a mind that was deeply involved in doub
      ▶ meanings: ["to surround or cover closely"]
        number: "4"
      ▶ synonyms: (22) ["bosom", "bower", "circumfuse", "cocoon"
      ▶ __proto__: Object
      length: 4
    ▶ __proto__: Array(0)
    functional_label: "verb"
    popularity: null
    word: "involve"
  ▶ __proto__: Object
```

FEATURING THREE OF FOUR SENSES

Window

Saved Selections (session)

1. "about"

1. "having g to do with"
   1: 6: "concerning" +1

2. "to be the business or affair of"
   2: 1: "involve" +1

same so increment

new so show

"involve"

1. verb.

"to have as part of a whole"

1.
- 0: "carry"
- 1: "comprehend"
- 2: "contain"
- 3: "embrace"
- 4: "encompass"
- 5: "entail"
- 6: "involve"
- 7: "number"

"to hold the attention of"

2.
- 0: "absorb"
- 1: "bemuse"
- 2: "busy"
- 3: "catch up"
- 4: "engross"
- 5: "enthrall (or enthral)"
- 6: "enwrap"

"to surround or cover closely"

3.
- 0: "bosom"
- 1: "bower"
- 2: "circumfuse"
- 3: "cocoon"
- 4: "embosom"
- 5: "embower"
- 6: "embrace"
- 7: "enclose (also inclose)"
- 8: "encompass"
- 9: "enshroud"

— 7 more —

POTENTIALLY...

Manage **SENSE TABS**
within **A RESULT INSTANCE**

Saved Selections (session)

1. "about"

    1. |"having to do with"
        1: 6: "concerning"   +1
    2. |"to be the business or affair of"
        2: 1: "involve"   +1

"involve"

1. verb.

                                          2.   3.
1.   0: "carry"
        1: "comprehend"
        2: "contain"
        3: "embrace"
        4: "encompass"
        5: "entail"
        6: "involve"
        7: "number"

        0: "absorb"
        1: "bemuse"
        2: "busy"
        3: "catch up"
        4: "engross"
        5: "enthrall (or enthral)"
        6: "enwrap"

"to have as part of a whole"   "to hold the attention of"   "to surround or cover closely"

swipe

possible collapse manage-
ment for vertically chal-
lenged media

Window

POTENTIALLY...

Manage **SELECTIONS** and **RESULTS** within **A WINDOW**

"involve"

1. verb.

2.   3.

1.   0: "carry"
     1: "comprehend"
     2: "contain"
     3: "embrace"
     4: "encompass"
     5: "entail"
     6: "involve"
     7: "number"

     0: "absorb"
     1: "bemuse"
     2: "busy"
     3: "catch up"
     4: "engross"
     5: "enthrall (or enthral)"
     6: "enwrap"

"to have as part of a whole"

"to hold the attention of"

"to surround or cover closely"

Saved Selections (session)

1. "about"

1.   "having to do with"
          1: 6: "concerning"   +1

2.   "to be the business or affair of"
          2: 1: "involve"   +1

possible screen split on mobile

Notes /

Window

POTENTIALLY...

Manage **SELECTIONS** and **RESULTS** within **A WINDOW**

as **SWIPABLE VIEWS**

"involve"

1. verb.

2.   3.

1.

"About" Selections (2)

0: "carry"
1: "comprehend"
2: "contain"
3: "embrace"
4: "encompass"
5: "entail"
6: "involve"
7: "number"

0: "absorb"
1: "bemuse"
2: "busy"
3: "catch up"
4: "engross"
5: "enthrall (or enthral)"
6: "enwrap"

"to have as part of a whole"

"to hold the attention of"

"to surround or cover closely"

○ ○

swipe to navigate between boxes

possible screen split on mobile

- SEPARATION OF RESPONSIBILITIES
- Component FILE directory MANAGEMENT
- WHAT GOES IN INDEX?
- AM I MOSTLY CONTROLLING THE PRODUCTS OR THE CART?
- IS INDEX.JS A REDUCER mostly or an API CONTROLLER FOR THE RESULTS?
- AM I ONLY CONCERNED ABOUT PERSISTENT LIFECYCLE ONCE AT ITEM IS SAVED? OR IS A RESULT INSTANCE THE SAME AS THE SAVED OPTION SELECTED FROM IT?   (AKA ARE WORDS JUST TRANSFERING FROM ONE LIST TO ANOTHER?
- PROPS for result component. Are we concerned with the state of the list or the options within it...
- TIPS for working with nextjs and REACT
- Any RECS for module helpers AKA LODASH, etc.
- Thoughts on memoryCACHE (useMemo)
- What hooks to stick with (useState, useReducer, useRef, useMemo)
- object/serializing json tips.

The display interface interchangeably features information about a result instance.

An example phrase for each definition of a set of synonyms is nested within the JSON response from our Thesaurus API.

The display component is essentially a virtual "mix-and-match" window that shows how different items might be "worn" together; and changes upon hovering over results and options within those results.

Grab the example phrase for each definition of "about".

Display ("about")

Definition ("about"(def 1))

"having to do with"

Label ("about"(def||label1))

preposition

Phrase ("about"(def 1))

Option(x)

about

"a poignant story

a young man who goes off to war"

Results ("about")

"about"(def 1) syns))

Option 1 — "apropos"

Option 2 — "as far as"

Option 3 — "as to"

Option 4 — "concerning"

— 9 more —

Results Component

INSTANTIATED DISPLAY OBJECT VIA "ABOUT" AS INPUT ARGUMENT.

INSTANTIATED PHRASE WITH "ABOUT"'S FIRST DEFINITION'S PHRASE AS INPUT ARGUMENT.

```
{
  "t": "a poignant story {it}about{/it} a young man who goes off to war"
}
...
{
  "t": "{it}about{/it} the hedge there was a picket fence"
}
...
{
  "t": "sparrows hopping {it}about{/it} the lawn near the bird feeder"
}
```

```
onMouseEnter ( result (def1) =>
    onMouseEnter ( option (word) ))


word (def 1)
word (def 1)          "Def 1 phrase using
word (def 1)           {word}."


word (def 2)
word (def 2)          "Def 2 phrase using
word (def 2)           {word}."


word (def 3)
word (def 3)          "Def 3 phrase using
word (def 3)           {word}."
```

Plug in each word in a definition's list of synonyms.

Display ("about")

Definition ("about"(def 1))
"having to do with"

Label ("about"(def||label1))
preposition

Phrase ("about"(def 1))
Option(4)
"a poignant story   concerning
a young man who goes off to war"

Results ("about")

"about"(def 1(syns))

Option 1   "apropos"
Option 2   "as far as"
Option 3   "as to"
Option 4   "concerning"
— 9 more —

INSTANTIATED PHRASE WITH THE FOURTH SYNONYM OPTION USING "ABOUT"'S FIRST DEFINITION.

```
"apropos",
"apropos of",
"as far as",
"as for",
"as regards",
"as to",
"concerning",
"of",
"on",
"regarding",
"respecting",
"touching",
"toward"
```

```
{
  "t": "a poignant story concerning a young man
who goes off to war"
}
```

HOVERING OVER "ABOUT" (DEF 1 (SYNS (OPTION(WORD))) SHOWS THAT WORD USED IN A SENTENCE

```
onMouseEnter ( result (def1) =>
     onMouseEnter ( option (word) ))


word (def 1)
word (def 1)        "Def 1 phrase using
word (def 1)         {word}."


word (def 2)
word (def 2)        "Def 2 phrase using
word (def 2)         {word}."


word (def 3)
word (def 3)        "Def 3 phrase using
word (def 3)         {word}."
```

Plug in each word in a definition's list of synonyms.

Display ("about")

Definition ("about"(def 1))

"having to do with"

Label ("about"(def||label1))

preposition

Phrase ("about"(def 1))

Option(4)

"a poignant story   concerning

a young man who goes off to war"

Results ("about")

"about"(def 1(syns))

Option 1   "apropos"
Option 2   "as far as"
Option 3   "as to"
Option 4   "concerning"
— 9 more —

Results Component

AND SO ON...

THE DEFINITION FIELD WILL HAVE 3 VARIATIONS.

THE LABEL, TYPICALLY RE-MAINS THE SAME, BUT WILL VARY AS REQUIRED

```
"apropos",
"apropos of",
"as far as",
"as for",
"as regards",
"as to",
{                    "concerning"
  "t": "a poignant story           a young man
  who goes off to war""of",
}                    "on",
"regarding",
"respecting",
"touching",
"toward"
```

```
"around",
"by",
{        "near",
  "t":           the hedge there was a picket
         "next to",   fence"
}        "nigh"
```

```
"across",
"around",
"over",
{        "round",
  "t": "sparrows hopping      the lawn
         near the bird feeder""through",
}        "throughout"
```

— Notes /

JAN 2021