

moz://a

erik@mozilla.com • IRC: ErikRose • @ErikRose

The screenshot shows a code editor interface with two lines of code:

```
11 + return_your_census()
12 + sneeze_loudly(True)
```

A note from a user named **erikrose** is displayed below the code:

erikrose added a note 12 minutes ago

Your code is bad, and you are bad. Have a bad day.

Add a line note

13 + do_other_stuff()

Constructive Code Review

erik@mozilla.com

• IRC: ErikRose

• @ErikRose

The screenshot shows a code review interface with two commit messages and a note from a user named erikrose.

Commit 11: `return_your_coldness()`

Commit 12: `+ sneeze_loudly(True)`

Note from erikrose:

erikrose added a note 12 minutes ago

Your code is bad, and you are bad. Have a bad day.

Add a line note

Commit 13: `+ do_other_stuff()`

Build an excellent product

Build an excellent product

Build people

Build an excellent product

Build people

Build yourself*

* Assumes you are not a person

Build an excellent product

Build people

Build yourself*

* Assumes you are not a person

Build an excellent product

Build people

***Build yourself**

* Assumes you are not a person

Creative work
is powered by
enthusiasm.

Creative work
is powered by
enthusiasm.

Creative work
is powered by
enthusiasm.

Creative work
is powered by
enthusiasm.

Truth

Nature cannot
be fooled.

Kindness

We are made
of meat.

Clarity of Explanation

```
13 +     do_other_stuff()  
14 +  
15 +     if thing == 5:  
16 +         stir('B')
```

 erikrose added a note 18 seconds ago

Owner



This isn't great.

Add a line note

```
17 +     print "Flibbety jibbet!"  
18 +     render_golfclubs()  
19 +     sneeze_loudly(True)  
20 +     do_other_stuff()  
21 +  
22 +     if thing == 7:
```

Clarity of Explanation

```
13 +     do_other_stuff()  
14 +  
15 +     if thing == 5:  
16 +         stir('B')
```

 erikrose added a note 18 seconds ago Owner +  

This isn't great.

```
13 +     do_other_stuff()  
14 +  
15 +     if thing == 5:  
16 +         stir('B')
```

 erikrose added a note 6 minutes ago Owner +  

If we pass "B" to `stir` here, it will cause a mem leak as we allocate the whatzit, since the two loops of the B will get caught on adjacent gear teeth.

Add a line note

```
17 +     print "Flibbety jibbet!"  
18 +     render_golfclubs()
```

Clarity of Explanation

Clarity of Explanation

Code

Clarity of Explanation

Code

Links

Clarity of Explanation

Code

Links

Higher-bandwidth communications

Clarity of Explanation

Code

Links

Higher-bandwidth communications

Write down the result!

Clarity of Expectation

```
1 +def do_stuff(thing):
2     if thing == 2:
3         print "Flibbety jibbet!"
```

 erikrose added a note just now Owner +  

Internationalization would be better.

Add a line note

```
4 +
5     render_golfclubs()
6     sneeze_loudly(True)
7     do_other_stuff()
```

Clarity of Expectation

```
1 +def do_stutter(thing):
2     if thing == 2:
3         print "Flibbety jibbet!"
```

 erikrose added a note just now

Owner



Internationalization would be better.

Add

```
1 +def do_stutter(thing):
2     if thing == 2:
3         print "Flibbety jibbet!"
```

 erikrose added a note 2 minutes ago

Owner



It would be great to internationalize this message, but it doesn't need to block the merge.

Add a line note

```
4 +
5     render_golfclubs()
6     sneeze_loudly(True)
7     do_other_stuff()
```

Clarity of Expectation

```
1 +def do_stutter(thing):  
2     if thing == 2:  
3         print "Flibbety jibbet!"
```

 erikrose added a note just now

Owner



Internationalization would be better.

Unified

Split

Review changes

Add

```
1 +def do_stutter(thing):  
2     if thing == 2:  
3         print "Flibbety jibbet!"
```

 erikrose added a note 2 minutes ago

It would be great to internationalize this message, but it doesn't

Add a line note

```
4 +     render_golfclubs()  
5 +     sneeze_loudly(True)  
6 +     do_other_stuff()  
7 +
```

Submit your review

Review summary

Leave a comment

Comment

Submit general feedback without explicit approval.

Approve

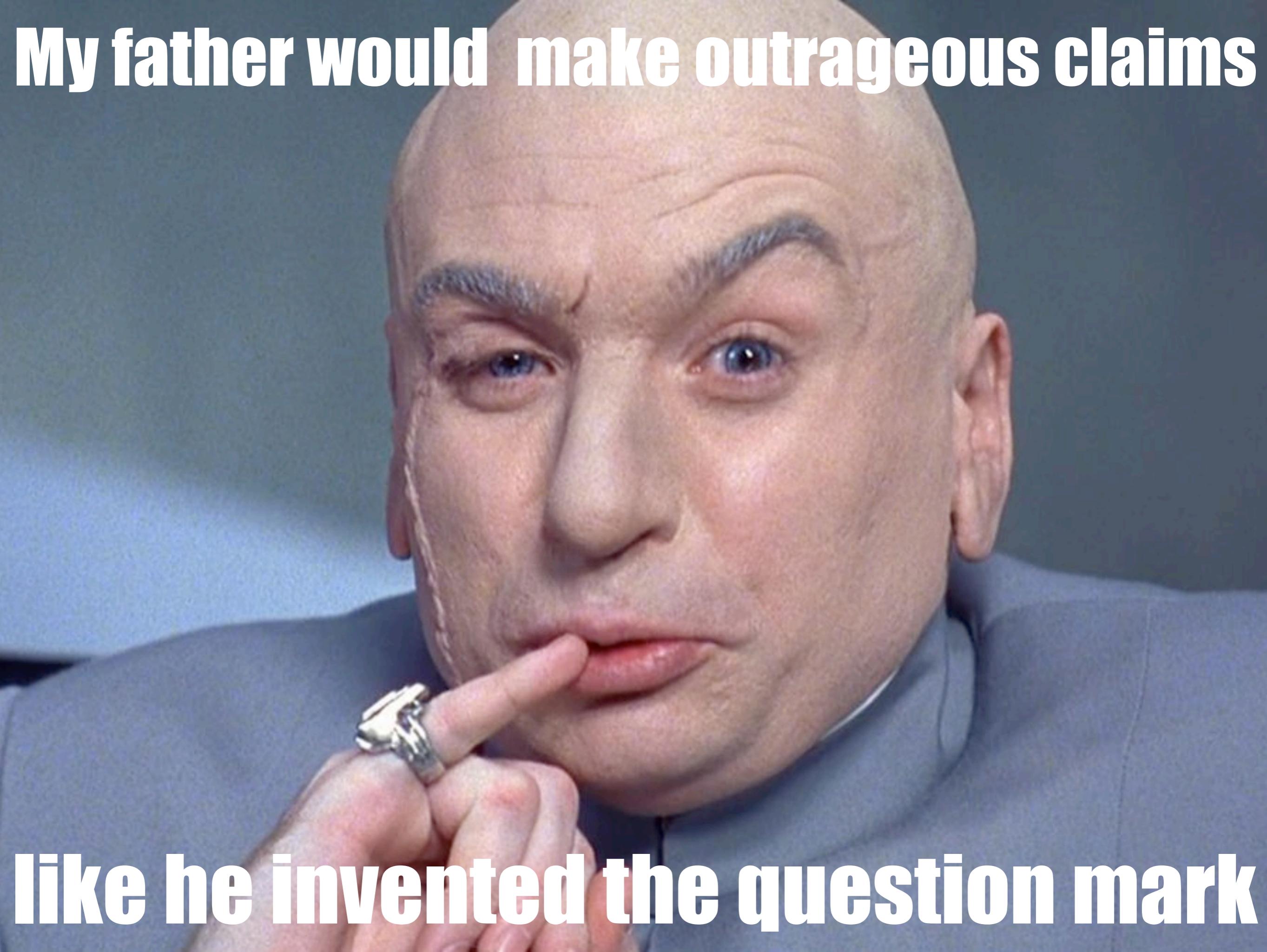
Submit feedback and approve merging these changes.

Request changes

Submit feedback that must be addressed before merging.

Submit review

Tact Hacks



My father would make outrageous claims
like he invented the question mark

The Question Mark

```
53 -     return term  
87 +         text_terms = [term for term in self._terms if term['name'] == 't'
```

 erikrose added a note 19 days ago

Mozilla member



There's no point returning path results when there is more than one term.

```
88 +     if len(text_terms) == 1:  
89 +         return text_terms[0]
```

The Question Mark

```
53 -     return term  
54 | 87 +         text_terms = [term for term in self._terms if term['name'] == 't'  
55 |
```

 erikrose added a note 19 days ago

Mozilla member  

There's no point returning path results when there is more than one term.

```
56 | 87 +     text_terms = [term for term in self._terms if term['name'] == 't'  
57 | 88 +  
58 | 89 +
```

 erikrose added a note 19 days ago

Mozilla member  

Can you remind me of some use cases for returning path results when there is more than one term (but only one text term, of course)?

 pelmers added a note 19 days ago

Mozilla member  

For example it's common to exclude the object directory in a search, and it can be helpful to still have the promoted results.

 erikrose added a note 16 days ago

Mozilla member  

Of course. Thanks. Any FILE-domain filter could be useful.

Add a line note

```
88 +         if len(text_terms) == 1:  
89 |
```

You, We, & This

```
53      -         return term  
87 +     text_terms = [term for term in self._terms if term['name'] == 't'
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 erikrose added a note 19 days ago

Mozilla member



If you do it this way, you'll break Unicode queries

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You, We, & This

53

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87 + text_terms = [term for term in self._terms if term['name'] == 't'



erikrose added a note 19 days ago

Mozilla member



If you do it this way, you'll break Unicode queries [you idiot]

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Mozilla member

If we do it this way, it'll break Unicode queries [my fellow code steward]

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This casting will break Unicode queries

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 erikrose added a note 19 days ago

Mozilla member

This casting will break Unicode queries [as a matter of fact]

```
88 +      if len(text_terms) == 1:  
89 +          return text_terms[0]
```

Compliments

[Code](#)[Issues 0](#)[Pull requests 1](#)[Pulse](#)[Graphs](#)[Settings](#)

Add dispatch handler for flibbety jibbetting. #3

[Open](#)

erikrose wants to merge 1 commit into [master](#) from [screenshots](#)

[Conversation 0](#)[Commits 1](#)[Files changed 1](#)

gerbiltickler commented 21 hours ago

Owner +

This oughtta do it.

Add dispatch handler for flibbety jibbetting.

729d31b



erikrose commented 2 minutes ago

Owner +

Really looking forward to having this; I know a lot of our users need to jibbet flibbetily!

Add more commits by pushing to the [screenshots](#) branch on [erikrose/presentations](#).

Compliments

Compliments

```
1 +def do_stutter(thing):  
2     if thing == 2:  
3         print "Flibbety jibbet!"
```

 erikrose added a note just now

Owner



Thank you for refactoring this scary mess!

Add a line note

```
4     +    render_golfclubs()  
5     +    sneeze_loudly(True)  
6     +    do_other_stuff()
```

Compliments

```
1 +def do_stutter(thing):  
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```

 erikrose added a note just now

Owner



Thank you for refactoring this scary mess!

Add a line note

```
4 +  
5 + pelmers added a note 19 days ago  
6 +
```

I think this is an off-by-one on the end of the list.

Mozilla member



 erikrose added a note 16 days ago

Mozilla member



Yikes, nice catch!

Add a line note

```
88 +     if len(text_terms) == 1:  
89 +         return text_terms[0]
```

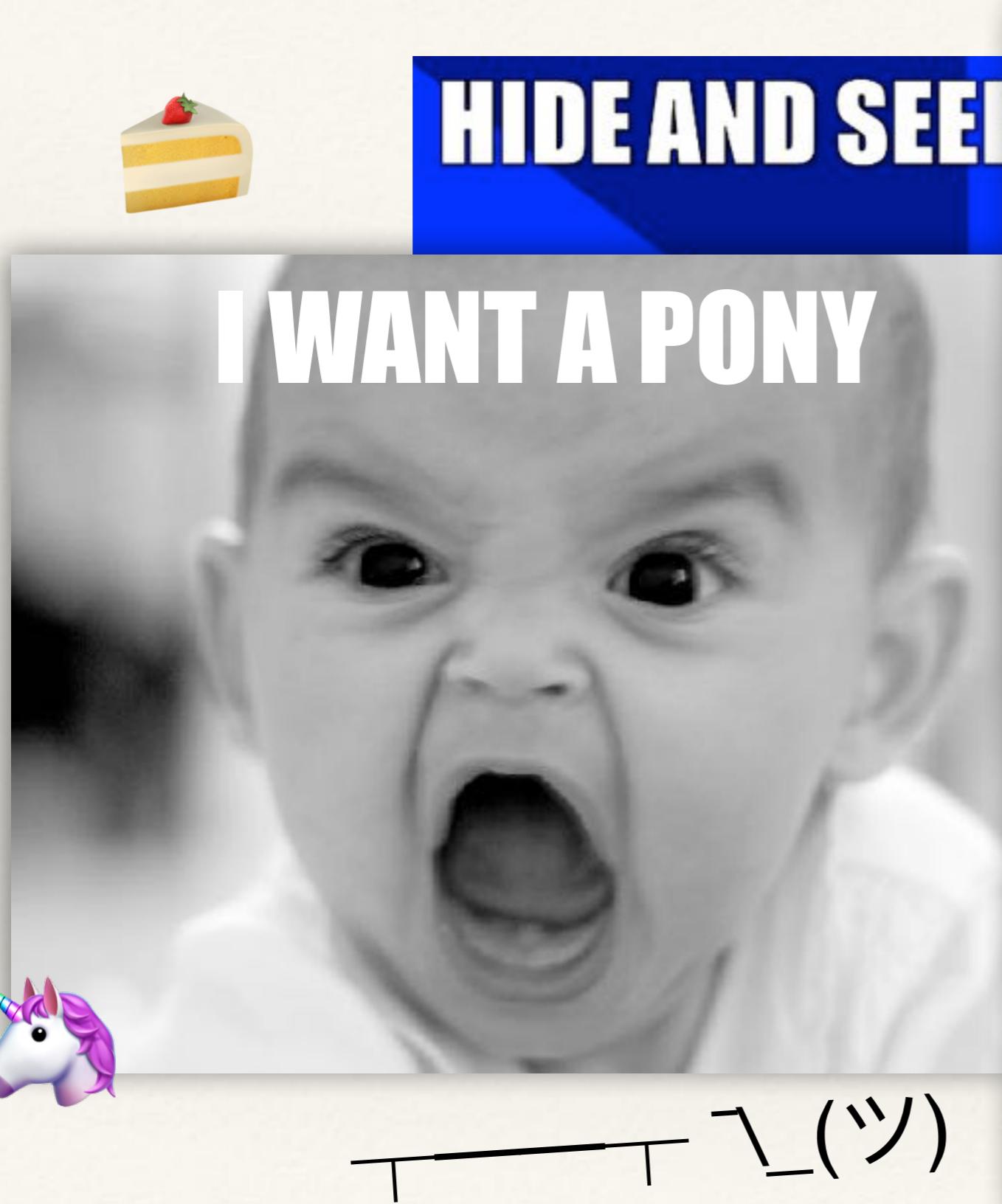
Humor

HIDE AND SEEK CHAMPION



SINCE 1958

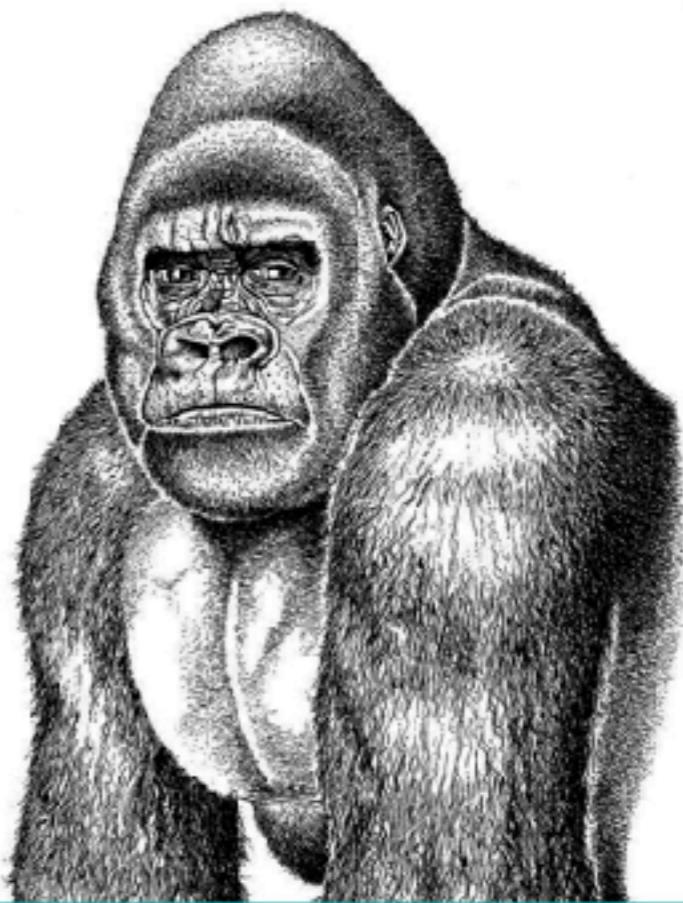
Humor



HIDE AND SEEK

I WANT A PONY

Who are you kidding?



“Temporary”
Workarounds

O RLY?

@ThePracticalDev

Antipatterns

TL;DR;LGTMI

```

from __future__ import print_function
from collections import Counter, defaultdict, deque
from functools import partial, wraps
from heapq import merge
from itertools import chain, count, groupby, islice,
from operator import itemgetter
from sys import version_info

from six import binary_type, string_types, text_type
from six.moves import filter, map, zip, zip_longest
from .recipes import flatten, take

_all_ = [
    'adjacent',
    'always_iterable',
    'bucket',
    'chunked',
    'collapse',
    'collate',
    'consumer',
    'distinct_permutations',
    'distribute',
    'divide',
    'first',
    'groupby_transform',
    'ilen',
    'interleave_longest',
    'interleave',
    'intersperse',
    'iterate',
    'one',
    'padded',
    'peekable',
    'side_effect',
    'sliced',
    'sort_together',
    'split_after',
    'split_before',
    'spy',
    'stagger',
    'unique_to_each',
    'windowed',
    'with_iter',
    'zip_offset',
]

_marker = object()

class peekable(object):
    """Wrap an iterator to allow lookahead and prepending elements.

    Call ``peek()`` on the result to get the value that will next pop out of
    ``next()``, without advancing the iterator:
    """

    def __init__(self, iterable):
        self._it = iter(iterable)
        self._cache = deque()

    def __iter__(self):
        return self

    def __bool__(self):
        try:
            self.peek()
        except StopIteration:
            return False
        return True

    def __nonzero__(self):
        # For Python 2 compatibility
        return self.__bool__()

    def peek(self, default=_marker):
        """Return the item that will be next returned from ``next()``.

        Return ``default`` if there are no items left. If ``default`` provided,
        raise ``StopIteration``.

        """
        if not self._cache:
            try:
                self._cache.append(next(self._it))
            except StopIteration:
                if default is _marker:
                    raise
                return default
        return self._cache[0]

    def prepend(self, *items):
        """Stack up items to be the next ones returned from ``next()``.
        ``self.peek()``. The items will be returned in first in, first out order::

        """
        if not kwargs:
            return merge(*iterables)

        return _collate(*iterables, **kwargs)

    # If using Python version 3.5 or greater, heapq.merge() will be faster than
    # collate - use that instead.
    if version_info >= (3, 5, 0):
        collate = merge

    def consumer(func):
        """Decorator that automatically advances a PEP-342-style "reverse iterator"
        to its first yield point so you don't have to call ``next()`` on it
        manually.

        """
        @wraps(func)
        def wrapper(*args, **kwargs):
            gen = func(*args, **kwargs)
            next(gen)
            return gen
        return wrapper

    def ilen(iterable):
        """Return the number of items in ``iterable``.

        """
        if len(x for x in range(1000000) if x % 3 == 0) == 333334
            This consumes the iterable, so handle with care.

        """
        d = deque(enumerate(iterable, 1), maxlen=1)
        return d[0][0] if d else 0

    def iterate(func, start):
        """Return ``start``, ``func(start)``, ``func(func(start))``, ...
        """
        from itertools import islice
        list(islice(iterator(lambda x: 2*x, 1), 10))

        while True:
            yield start
            start = func(start)

    def with_iter(context_manager):
        """Context manager that wraps the context manager passed in with
        ``__enter__`` and ``__exit__`` methods that handle the iterator
        correctly.
        """
        def enter():
            if self._cache:
                return self._cache[0]
            else:
                return next(self._it)

        def exit(exception):
            if exception:
                self._cache.append(exception)
            else:
                self._cache.append(next(self._it))

        def __enter__():
            self._cache.append(self._it)
            self._it = context_manager.__enter__()
            return self._it

        def __exit__(self, type_, value, traceback):
            self._it = context_manager.__exit__(type_, value, traceback)
            self._cache.append(self._it)

        return context_manager

    def __len__(self):
        """Return the number of items in the cache plus the number of items
        remaining in the iterator.
        """
        return len(self._cache) + sum(1 for _ in self._it)

    def __del__(self):
        """Release the resources held by the iterator.
        """
        del self._cache
        del self._it

```

TL;DR;LGM

LGTM!
:-D

TL;DR;LGTM

~~TL;DR;LGTM~~

prose overview of patch

~~TL;DR;LGTM~~

prose overview of patch

long commit messages

~~TL;DR;LGTM~~

prose overview of patch

long commit messages

small commits

~~TL;DR;LGTM~~

prose overview of patch

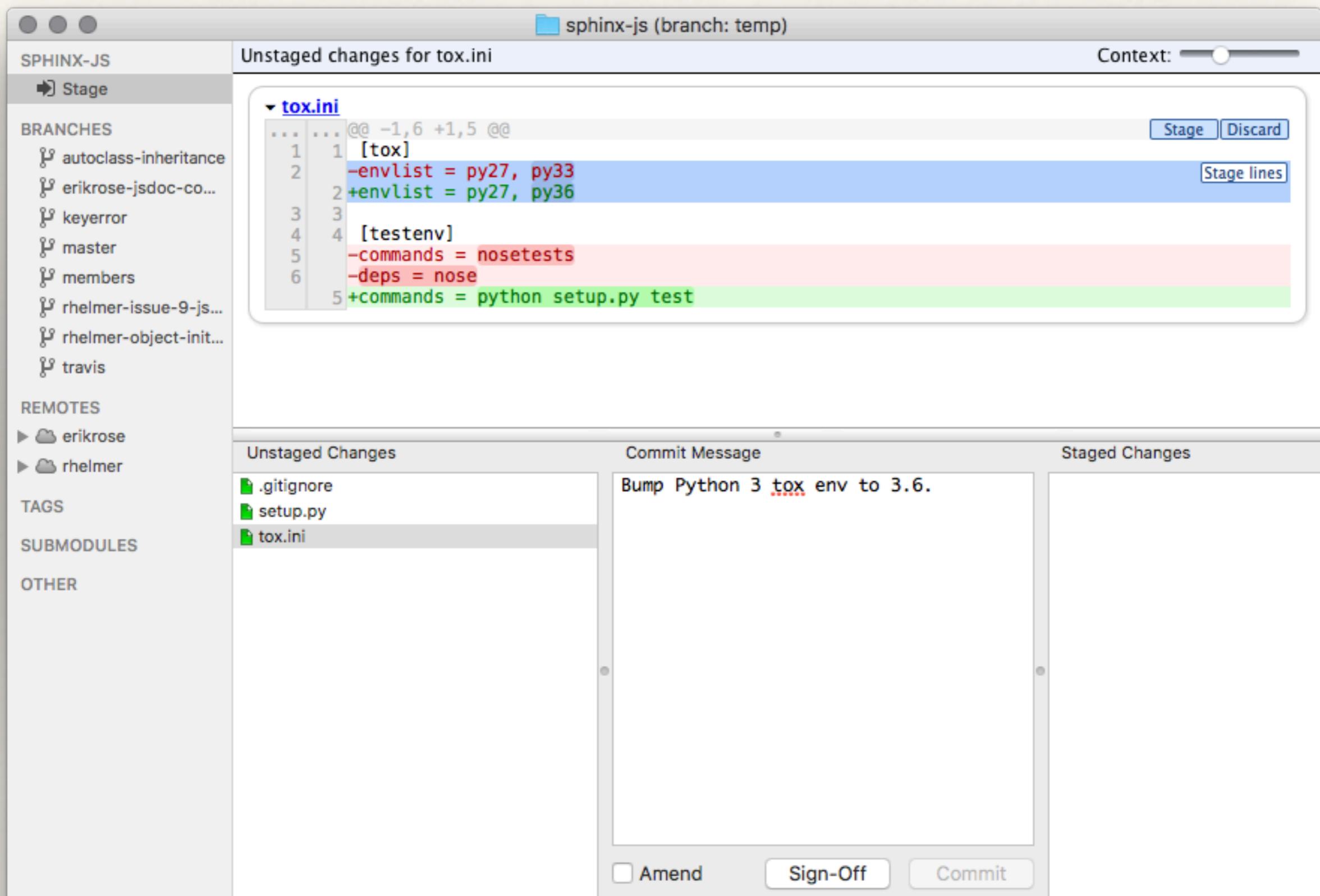
long commit messages

small commits

comments, docstrings, naming

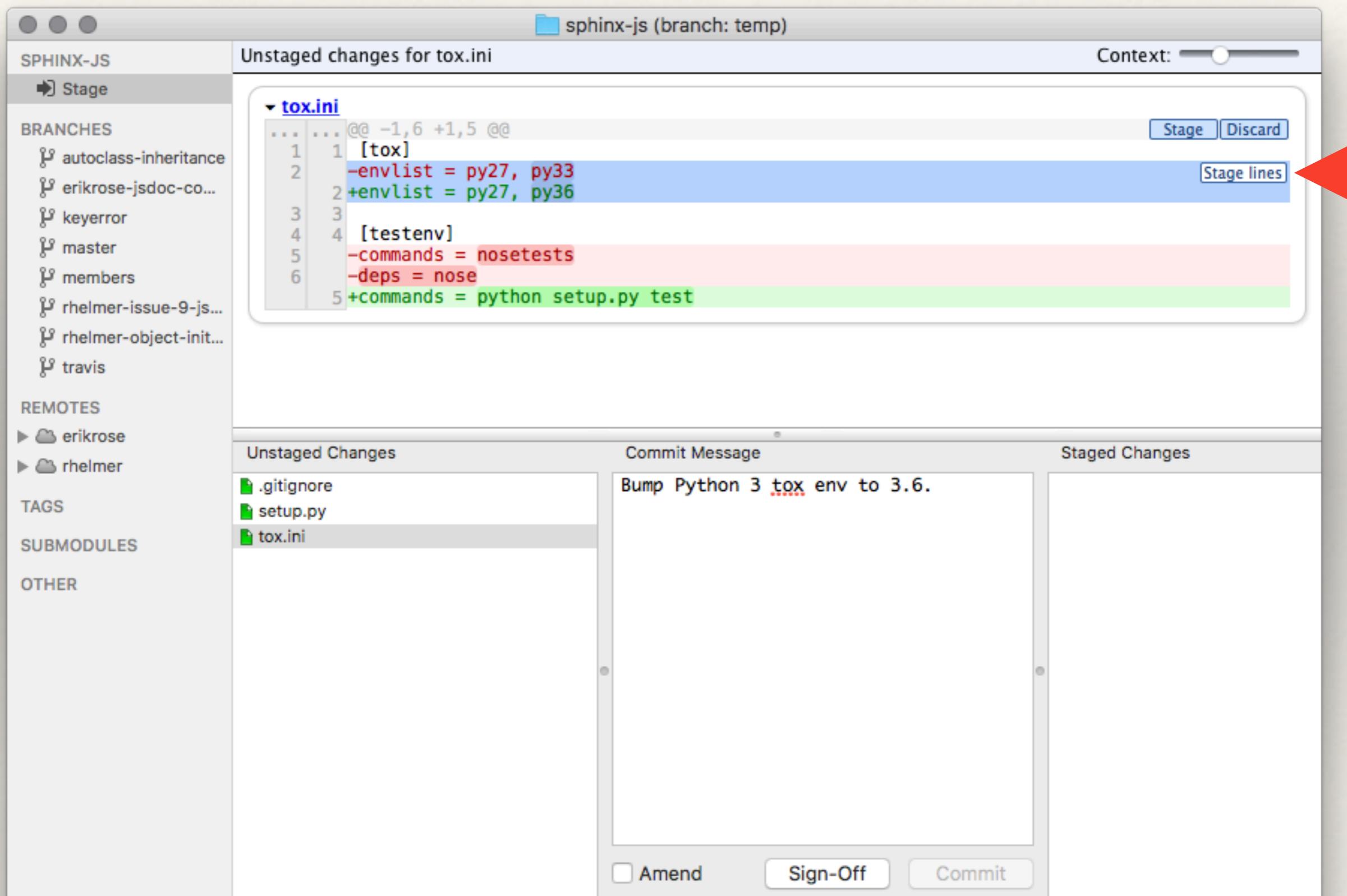
TL;DR;LGTM

GitX



TL;DR;LGTM

GitX



TL;DR;LGTM

FileMerge

The screenshot shows a file merge interface comparing two versions of a Python file, `renderers.py`. The left pane shows version `8r8k09_renderers.py` and the right pane shows version `2edMZ9_renderers.py`. The code is identical in both panes, with annotations indicating differences:

- Annotation 1:** Points to the import of `RstParser` from `docutils.parsers.rst`.
- Annotation 2:** Points to the constructor `__init__(self, directive, app)` and its parameters.
- Annotation 3:** Points to the assignment of `directive.arguments` to `_arguments`.
- Annotation 4:** Points to the assignment of `directive.content` to `_content`.
- Annotation 5:** Points to the assignment of `directive.options` to `_options`.
- Annotation 6:** Points to the assignment of `directive` to `_directive`.
- Annotation 7:** Points to the assignment of `app` to `_app`.
- Annotation 8:** Points to the method `rst_nodes(self)`.
- Annotation 9:** Points to the assignment of `name` to `_name`.
- Annotation 10:** Points to the assignment of `doclet` to `_app.sphinxjs_doclets_by_longname.get(name)`.
- Annotation 11:** Points to the condition where `doclet` is `None`.
- Annotation 12:** Points to the warning message displayed when `doclet` is `None`.
- Annotation 13:** Points to the return value of `None`.
- Annotation 14:** Points to the assignment of `rst` to `self.rst(name, doclet, use_short_name='short-name' in self._options)`.
- Annotation 15:** Points to the note about passing settings from the "real" doc.
- Annotation 16:** Points to the note about the `meta` field.

Left Pane (8r8k09_renderers.py):

```
class JsRenderer
    from collections import OrderedDict
    from os.path import dirname, join
    from re import sub
    from docutils.parsers.rst import Parser as RstParser
    from docutils.utils import new_document
    from jinja2 import Environment, PackageLoader
    from six import iteritems
    from sphinx.ext.autodoc import ALL

    class JsRenderer(object):
        """Abstract superclass for renderers of various sphinx-js directives
        Provides an inversion-of-control framework for rendering and bridges us
        from the hidden, closed-over JsDirective subclasses to top-level classes
        that can see and use each other.
        """
        def __init__(self, directive, app):
            #arg directive: The associated Sphinx directive
            #arg app: The Sphinx global app object. Some methods need this.
            #
            # content, arguments, options, app: all need to be accessible to
            # template_vars, so we bring them in on construction and store them away
            # on the instance so calls to template_vars don't need to concern
            # themselves with what it needs.
            self._arguments = directive.arguments
            self._content = directive.content
            self._options = directive.options
            self._directive = directive
            self._app = app

        def rst_nodes(self):
            """Render into RST nodes a thing shaped like a function, having a name
            and arguments.
            Fill in args, docstrings, and info fields from stored JSDoc output.
            #
            # Get the relevant documentation together:
            name = self._name()
            doclet = self._app.sphinxjs_doclets_by_longname.get(name)
            if doclet is None:
                app.warn('No JSDoc documentation for the longname "%s" was found.' % name)
                return []
            rst = self.rst(name, doclet, use_short_name='short-name' in self._options)
            # Parse the RST into docutils nodes with a fresh doc, and return
            # them.
            #
            # Not sure if passing the settings from the "real" doc is the right
            # thing to do here:
            meta = doclet['meta']
```

Right Pane (2edMZ9_renderers.py):

```
from os.path import dirname, join
from re import sub
from docutils.parsers.rst import Parser as RstParser
from docutils.stateemachine import StringList
from docutils.utils import new_document
from jinja2 import Environment, PackageLoader
from six import iteritems
from sphinx.ext.autodoc import ALL

class JsRenderer(object):
    """Abstract superclass for renderers of various sphinx-js directives
    Provides an inversion-of-control framework for rendering and bridges us
    from the hidden, closed-over JsDirective subclasses to top-level classes
    that can see and use each other.
    """
    def __init__(self, directive, app, arguments=None, content=None, options=None):
        self._directive = directive
        #
        # content, arguments, options, app: all need to be accessible to
        # template_vars, so we bring them in on construction and store them away
        # on the instance so calls to template_vars don't need to concern
        # themselves with what it needs.
        self._app = app
        self._arguments = arguments or []
        self._content = content or StringList()
        self._options = options or []

    @classmethod
    def from_directive(cls, directive, app):
        """Return one of these whose state is all derived from a directive.
        This is suitable for top-level calls but not for when a renderer is
        being called from a different renderer, lost content and such from the
        outer directive be duplicated in the inner directive.
        """
        #arg directive: The associated Sphinx directive
        #arg app: The Sphinx global app object. Some methods need this.
        #
        return cls(directive,
                   app,
                   arguments=directive.arguments,
                   content=directive.content,
                   options=directive.options)

    def rst_nodes(self):
        """Render into RST nodes a thing shaped like a function, having a name
        and arguments.
        Fill in args, docstrings, and info fields from stored JSDoc output.
        #
```

Nitpicks

```
print 'Hello'
```

Nitpicks

Lowercase please.

Should we be
using the Python-3-
style parentheses via
import future?

```
print 'Hello'
```

If we use a logging
framework, we have the
advantage of levels.

Too intimate a
greeting, I think

i18n?

Nitpicks

```
# Group lines into files:
for path, lines in groupby(results, lambda r: r['path'][0]): # noqa: E234
    lines = list(lines)
    highlit_path = highlight( # noqa: E234
        path,
        chain.from_iterable((h(lines[0]) for h in # noqa: E123
            path_highlighters)))
here_is_some_new(code, that.is_really_longer_than(the_surrounding_code)).and_thus(really).distracting("isn't it?")
icon_for_path = icon(path)
yield (icon_for_path,
       highlit_path,
       [(line['number'][0],
         highlight(line['content'][0].rstrip('\n\r'),
                  chain.from_iterable(h(line) for h in
                      contentHighlighters)))
        for line in lines])
print 'Hello'
```

Nitpicks

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# Group lines into files:  
for path, lines in groupby(results, lambda r: r['path']): # noqa: E234  
    lines = list(lines)  
    highlit_path = highlight( # noqa: E234  
        path,  
        chain.from_iterable((h(lines[0]) for h in # noqa: E123  
            path_highlighters)))  
    here_is_some_new(code, that.is_really_longer_than(the_surrounding_code)).and_thus(really).distracting("isn't it?")  
    icon_for_path = icon(path)  
    yield (icon_for_path,  
           highlit_path,  
           [(line['number'][0],  
             highlight(line['content'][0].rstrip('\n\r'),  
                      chain.from_iterable(h(line) for h in  
                                         contentHighlighters)))  
            for line in lines])  
print 'Hello'
```

If we use a logging framework, we have the advantage of levels.

Should be aligned with “h” above

Line too long

Some rogue camelCase escaped.

Too intimate a greeting, I think

Nitpicks

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# Group lines into files:  
for path, lines in groupby(results, lambda r: r['path']): # noqa: E234  
    lines = list(lines)  
    highlit_path = highlight( # noqa: E234  
        path,  
        chain.from_iterable((h(lines[0]) for h in # noqa: E123  
            path_highlighters)))  
    here_is_some_new(code, that.is_really_longer_than(the_surrounding_code)).and_thus(really).distracting("isn't it?")  
    icon_for_path = icon(path)  
    yield (icon_for_path,  
           highlit_path,  
           [(line['number'][0],  
             highlight(line['content'][0].rstrip('\n\r'),  
                      chain.from_iterable(h(line) for h in  
                                         contentHighlighters)))  
            for line in lines])  
print 'Hello'
```

Should be aligned
with “h” above

Line too long

Some rogue
camelCase escaped.

Nitpicks

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# Group lines into files:  
for path, lines in groupby(results, lambda r: r['path']): # noqa: E234  
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PEP 8, PEP 257, Pocoo style guide, Sphinx
flake8

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PEP 8, PEP 257, Pocoo style guide, Sphinx
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While you're at it...

While you're at it...

HaHaOnlySerious

While you're at it...

HaHa~~Only~~Serious

While you're at it...

HaHa~~Only~~Serious

GettingBetter

While you're at it...

HaHa~~Only Serious~~

Getting Better

~~Being Perfect~~

Slow Turnarounds

Slow Turnarounds

Energizing

Slow Turnarounds

Energizing

Comprehensiveness not required.

Slow Turnarounds

Energizing

Comprehensiveness not required.

Respect working memory.

Slow Turnarounds

Energizing

Comprehensiveness not required.

Respect working memory.

Quick “no”s

Those
Pesky
Human
Emotions

Insecurity

Insecurity

Insecurity == fear.

Insecurity

Insecurity == fear.

Everybody is wrapped up in themselves.

Insecurity

Insecurity == fear.

Everybody is wrapped up in themselves.

When someone corrects you,
that means you just got smarter.

Insecurity

Insecurity == fear.

Everybody is wrapped up in themselves.

When someone corrects you,
that means you just got smarter.

What are you so afraid of?
What's the worst that can happen?

Feeling Short on Time

Feeling Short on Time

Lower standards.

Feeling Short on Time

Lower standards.

Never sleep.

Feeling Short on Time

Lower standards.

Never sleep.

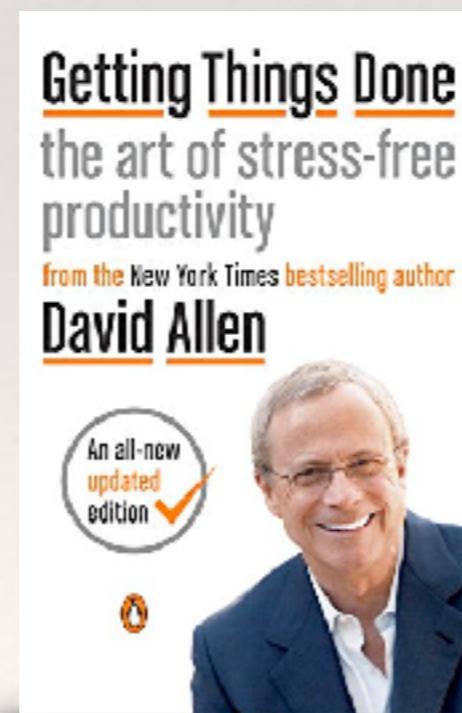
Or pace, prioritize, and peace.

Feeling Short on Time

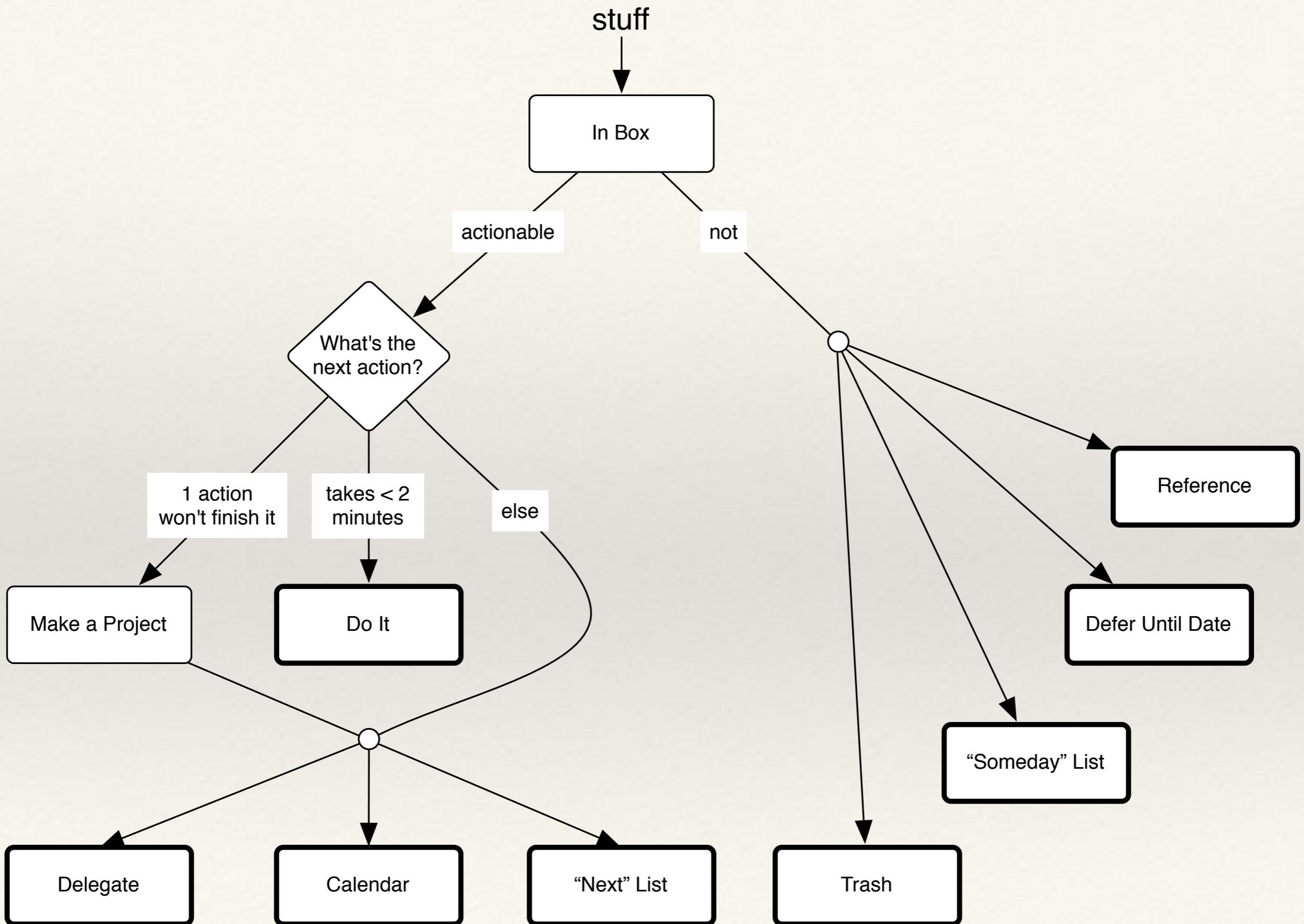
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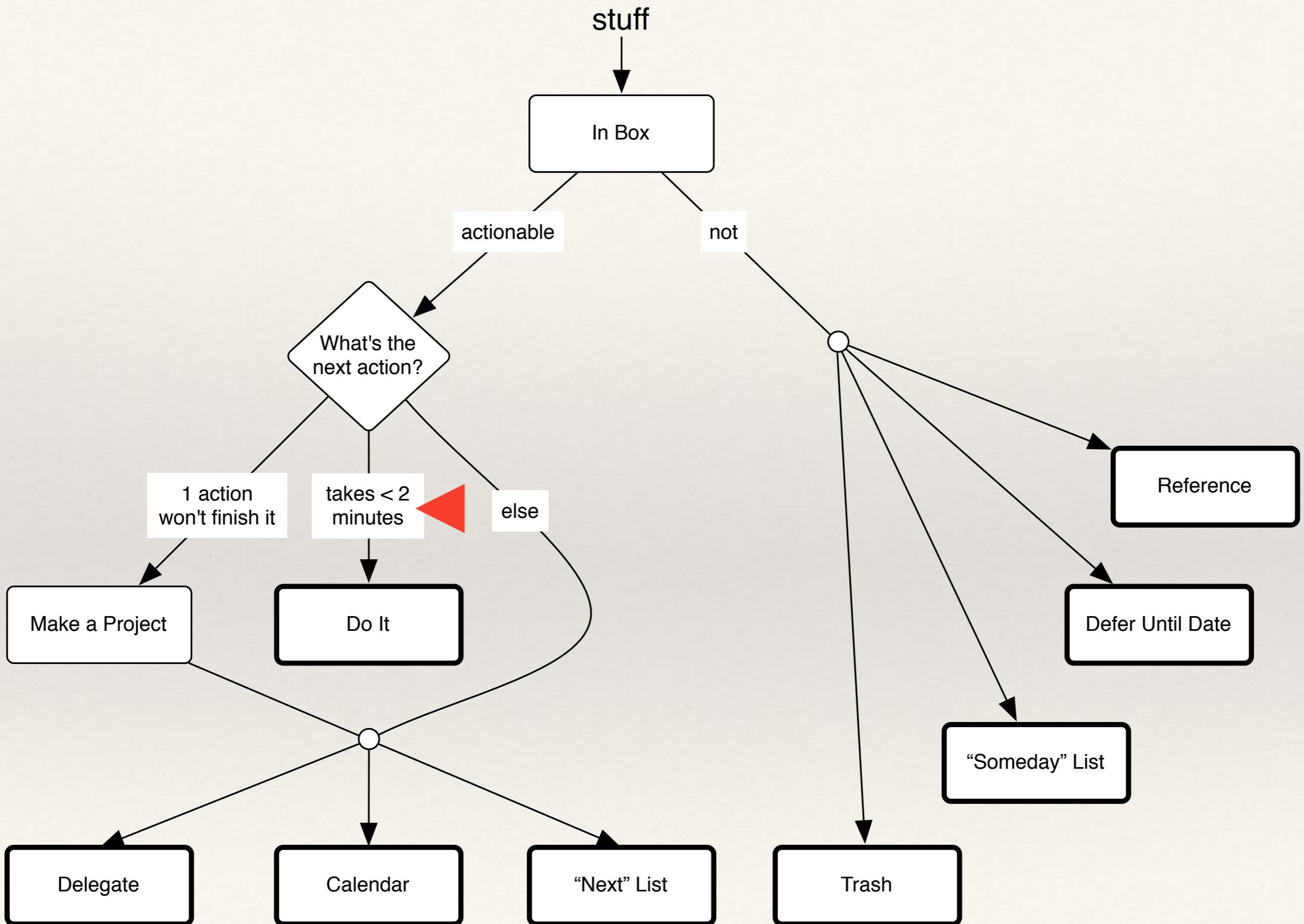
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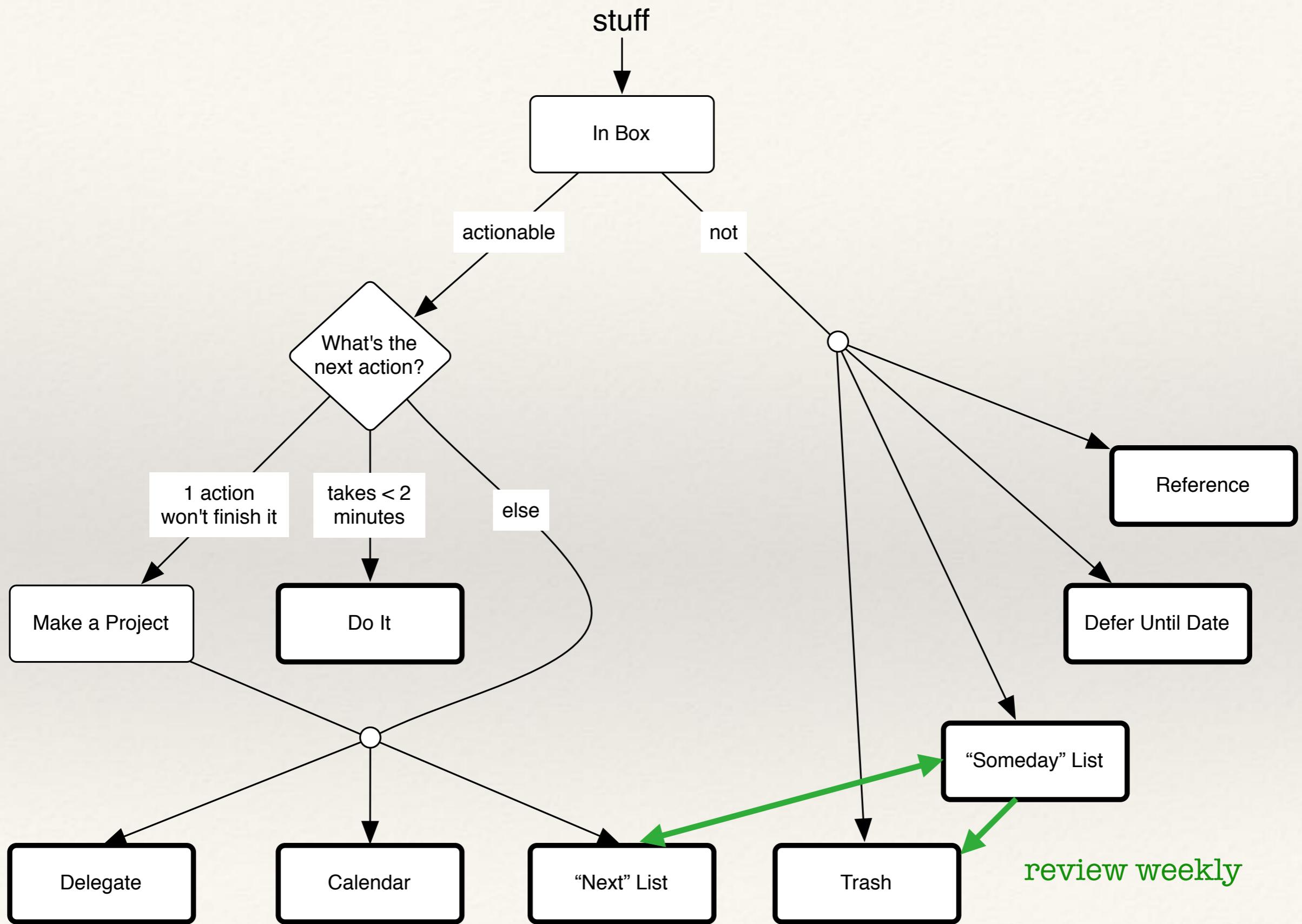
Feeling Short on Time



Feeling Short on Time



Feeling Short on Time



Feeling Short on Time

Feeling Short on Time

Patch-batching

Feeling Short on Time

Patch-batching

Leveling up newcomers

Feeling Short on Time

Patch-batching

Leveling up newcomers 1

Feeling Short on Time

Patch-batching

Leveling up newcomers 1 2

Feeling Short on Time

Patch-batching

Leveling up newcomers 1 2 3

The Trust Bank

Never eat lunch alone.

When all else fails...

When all else fails...

Say what you feel.

When all else fails...

Say what you feel.

Invite people into the decision.

Review Checklist

- Tact hacks
- Question mark
- You → we/this
- Compliments
- Humor
- Antipatterns
- TL;DR;LGTM
- Nitpicks
- While you're at it...
- Slow Turnarounds
- Clarity of explanation
- Clarity of expectation
- Pesky Emotions
- Insecurity
- Feeling short on time
- Pace & peace
- Getting Things Done
- Patch-batching
- Leveling up newcomers
- The trust bank
- Articulate emotions

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