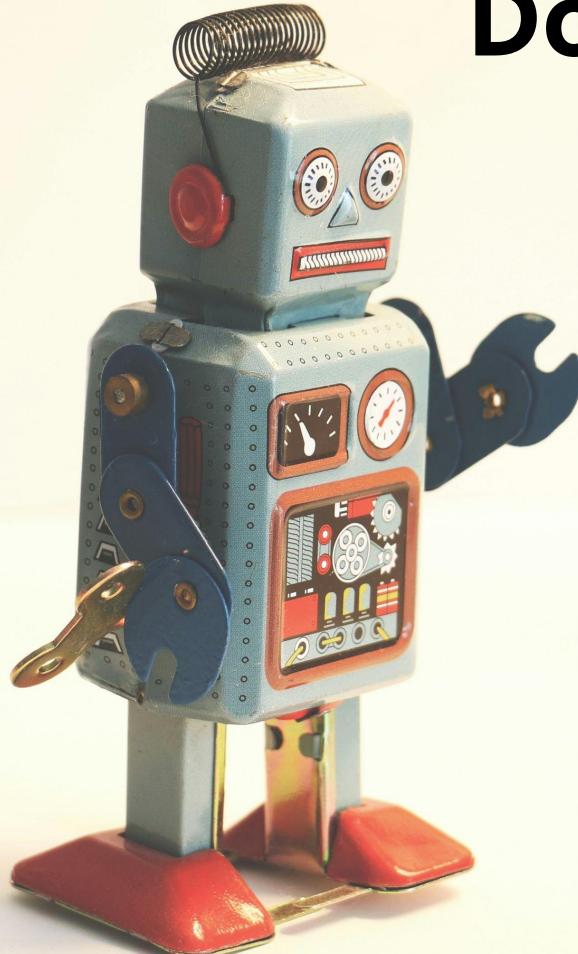


AI for senior developers: the wins, the risks, and the blind spots

Frédéric Harper
Senior Developer Relations Manager @ TinyMCE

 fharper



Don't use AI? Get started! Using AI? Be mindful...

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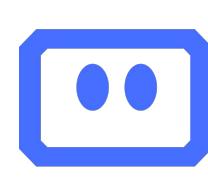
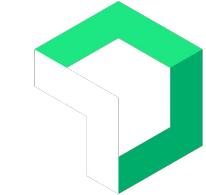
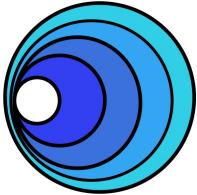
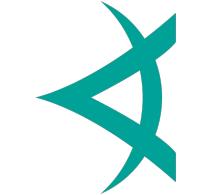
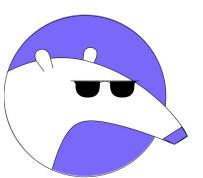
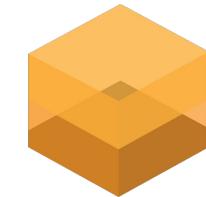
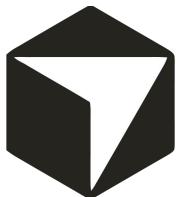


Photo by Emilipothèse on Unsplash



IT'S LIKE NORMAL TOOTHPASTE BUT
WE ADDED AI





<https://mad.firstmark.com>

the wins

```
31     def __init__(self, path=None, debug=False):
32         self.file = None
33         self.fingerprints = set()
34         self.logduplicates = True
35         self.debug = debug
36         self.logger = logging.getLogger(__name__)
37         if path:
38             self.file = open(os.path.join(path, 'fingerprinter.log'), 'w')
39             self.file.seek(0)
40             self.fingerprints.update([x.rstrip() for x in self.file])
41
42     @classmethod
43     def from_settings(cls, settings):
44         debug = settings.getbool('FINGERPRINTER_DEBUG')
45         return cls(job_dir(settings), debug)
46
47     def request_seen(self, request):
48         fp = self.request_fingerprint(request)
49         if fp in self.fingerprints:
50             return True
51         self.fingerprints.add(fp)
52         if self.file:
53             self.file.write(fp + os.linesep)
```

Junior developers and recent hires saw productivity increases of 27% to 39%, while senior developers experienced gains of only 8% to 13%.

<https://mitsloan.mit.edu/ideas-made-to-matter/how-generative-ai-affects-highly-skilled-workers>





Prompt like a prompter who is used to prompting

1. Break down complex tasks.
2. Be (very) specific.
3. Provide (a lot) of context.
4. Share some examples.
5. Supply latest documentation.
6. Iterate: refine, debug, question & restart (context loss) if needed

(my) custom instructions

- Stop being sycophant.
- Always provide true, sourced, transparent and current information or data.
- If the information is uncertain explicitly say "I cannot confirm this".
- Always cite sources clearly.
- Always provide step-by-step reasoning for complex answers.
- Always prioritize accuracy over speed or creativity.
- Always test the code you created.
- If using APIs, SDKs, frameworks, command line tools for generating code, always ensure you are using the latest version.

```
# CLAUDE.md
```

Coding standards

- Use TypeScript, strict mode
- Prefer functional components
- No default exports

Testing

- Always add unit tests for new logic
- Use Vitest, not Jest

Behaviour

- Do not refactor unrelated code
- Ask before introducing new dependencies
- Prefer minimal diffs

Output format

- Explain reasoning briefly before code
- Show only relevant files

```
# SKILL.md
```

```
---
```

```
name: pdf-processing
```

```
description: Extract text and tables from PDF files. Use when working with PDF files or when  
the user mentions PDFs or document extraction.
```

```
---
```

```
# PDF Processing
```

```
## Quick start
```

Use pdfplumber to extract text from PDFs:

```
```python
```

```
import pdfplumber
```

```
with pdfplumber.open("document.pdf") as pdf:
 text = pdf.pages[0].extract_text()
```

```

the risks



Photo by Willian Justen de Vasconcellos from Unsplash





Photo by Emiliano Bar on Unsplash

AI chain attacks

AI Tool Poisoning

Compromise tools or services AI agents use

AI Supply Chain Attacks

Inject malicious code, backdoors, or payloads
into open-source models, training datasets,
or dependency packages

Prompt Injection

Instructions are embedded in inputs

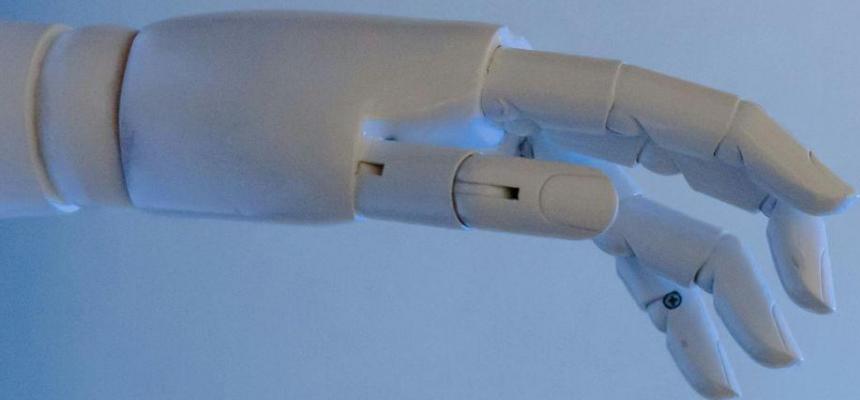
Slopsquatting

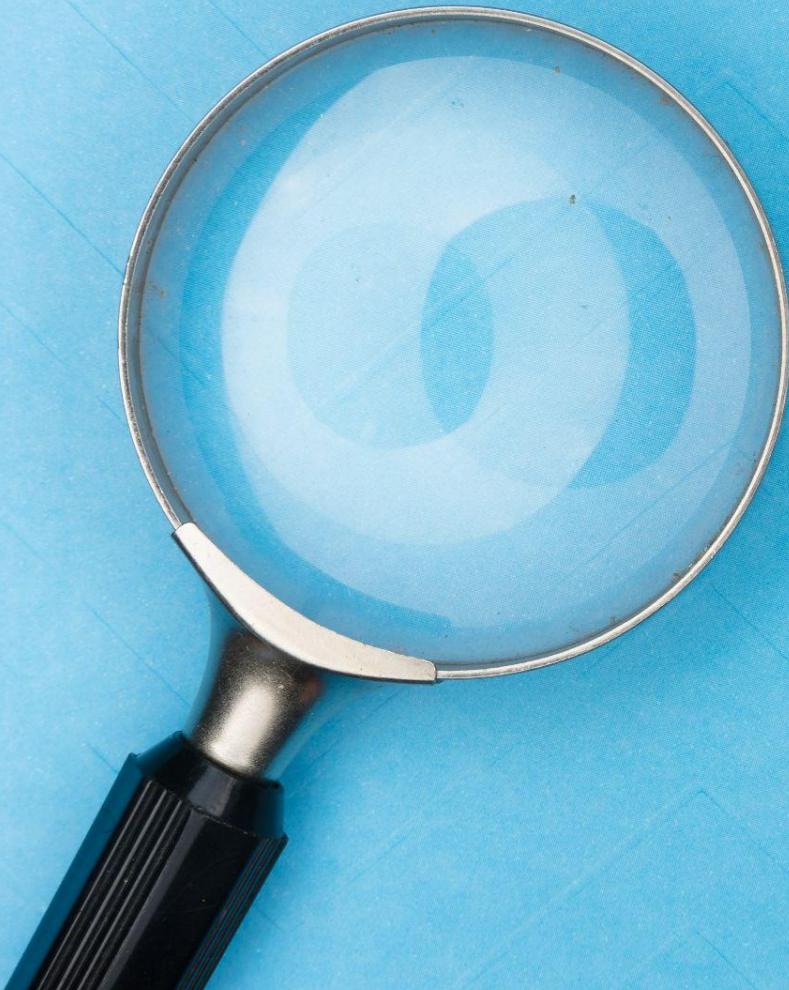
Register non-existent package names that AI
models hallucinate, or falsely suggest to
developers



Photo by Produtora Midtrack









on board this airplane
momento a bordo de este avión
à l'intérieur de cet avion
内にこの飛行機
勿吸烟
禁煙です。



Oxygen
Oxigeno
Oxygène
Sauerstoff
氧气
酸素マスク



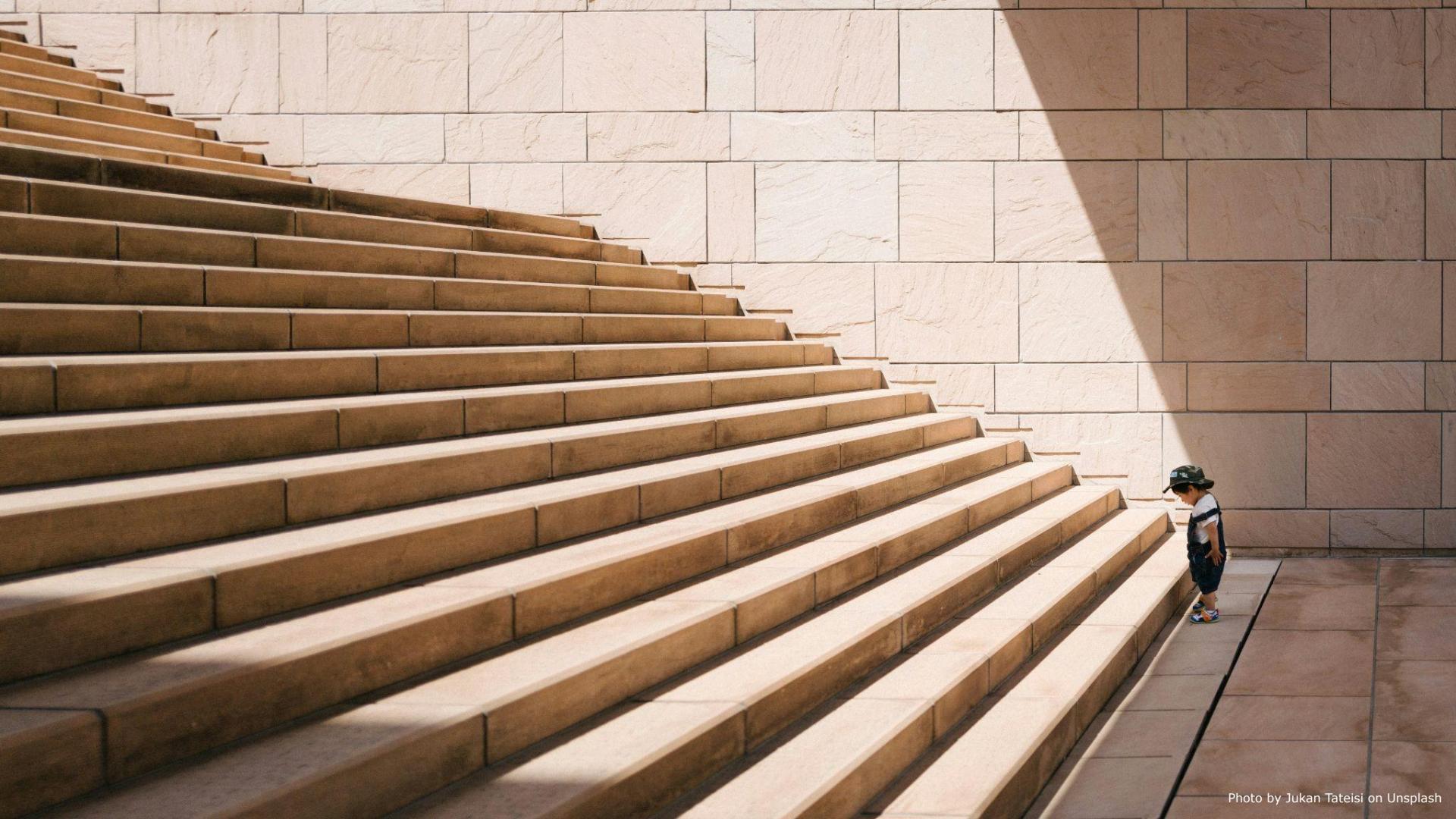


Photo by Jukan Tateisi on Unsplash

the blindspots



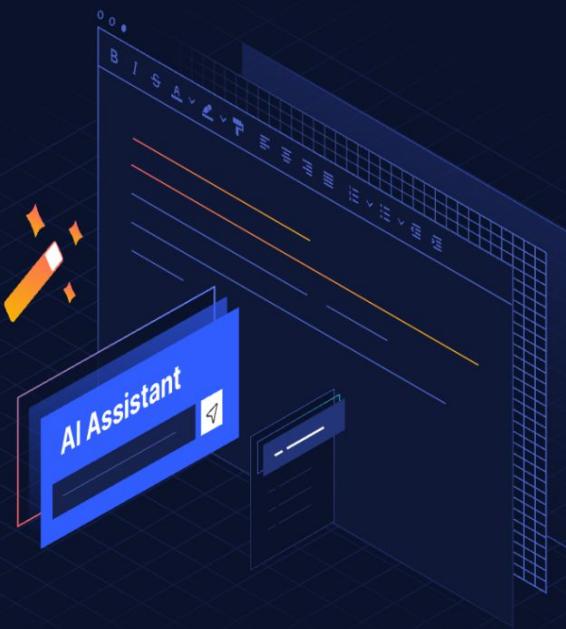
CODE OF ETHICAL BEHAVIOR



in the end



Easier, faster writing... with AI Assistant







Frédéric Harper

Senior Developer Relations
Manager

