Spoilers Ahead
Personalized Web Filtering

Pascal Bissig, Philipp Brandes, Roger Wattenhofer, Roman Willi

ETH Zurich - Distributed Computing Group - www.disco.ethz.ch

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*Posted yesterday by **Romain Dillet** (@romaindillet)*

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There are two kinds of people: those who are sick of all this Star Wars news nonsense, and those who just want to avoid any spoiler before seeing Star Wars Episode VII. In both cases, you're in luck because the Jitbit co-founders have something for you — the Star Wars Spoiler Blocker extension.

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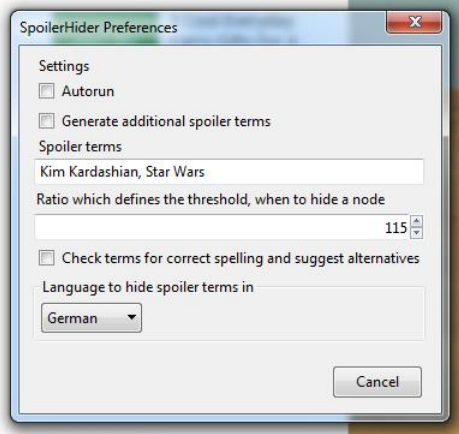

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Alex Jumašev and Max Al Farakh released a Chrome extension in the Chrome store that does one thing but does it well. Whenever you end up on a page that mentions Star Wars, the extension will take over your screen and show you a warning screen.

The "potential spoilers ahead" screen is much better than having to block your display with

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CrunchBase

Star Wars –

DESCRIPTION
Star Wars is an American movie franchise created by George Lucas.

WEBSITE
http://www.starwars.com

Full profile for Star Wars

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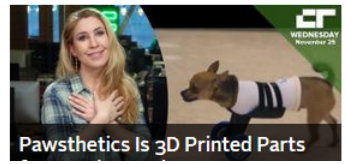
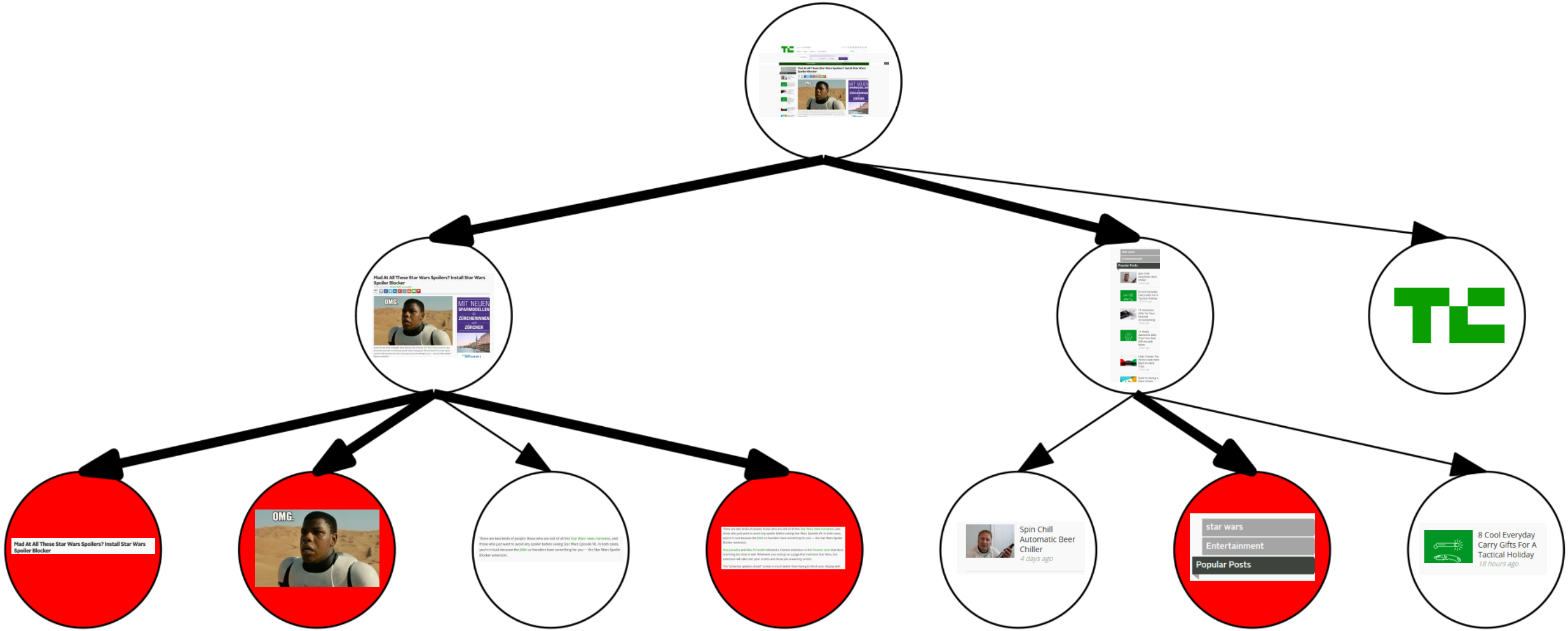


Dom Tree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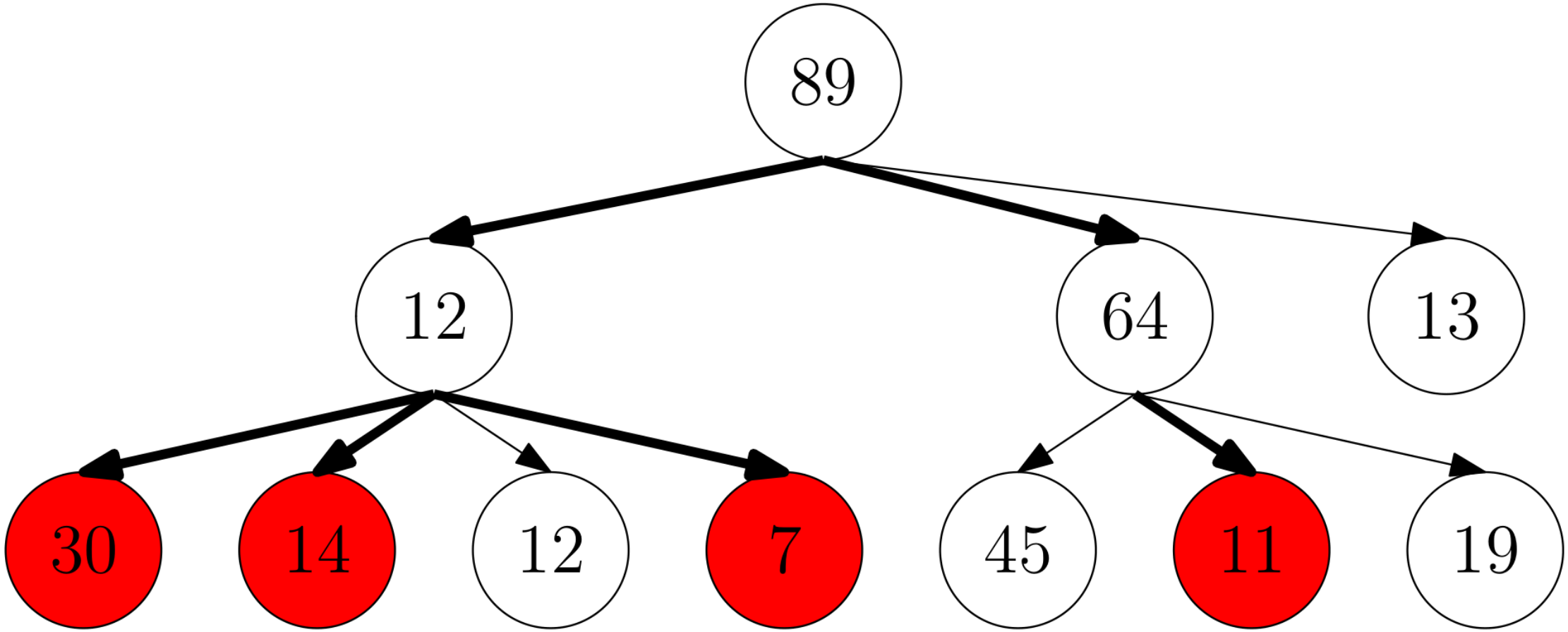
The Node Removal Problem

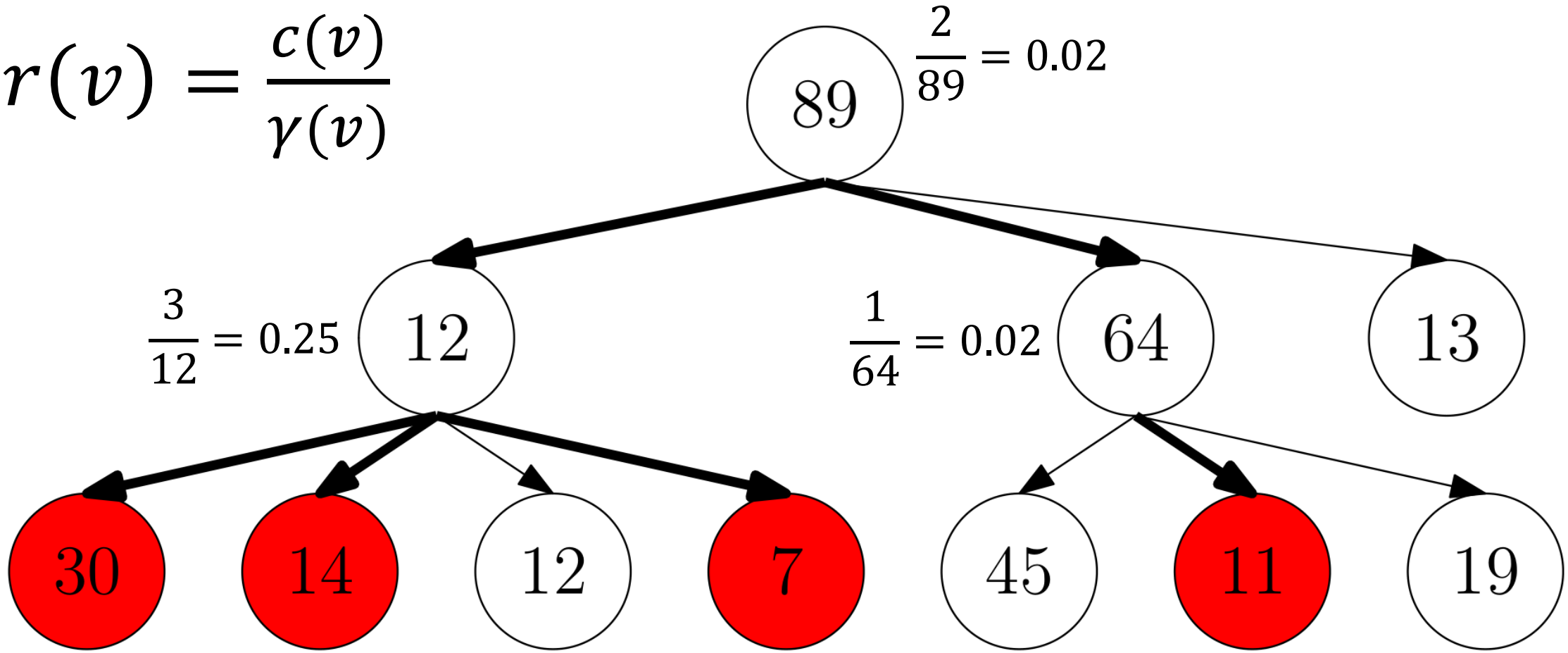
Node v contains $b(v)$ «bad» and $g(v)$ «good» words

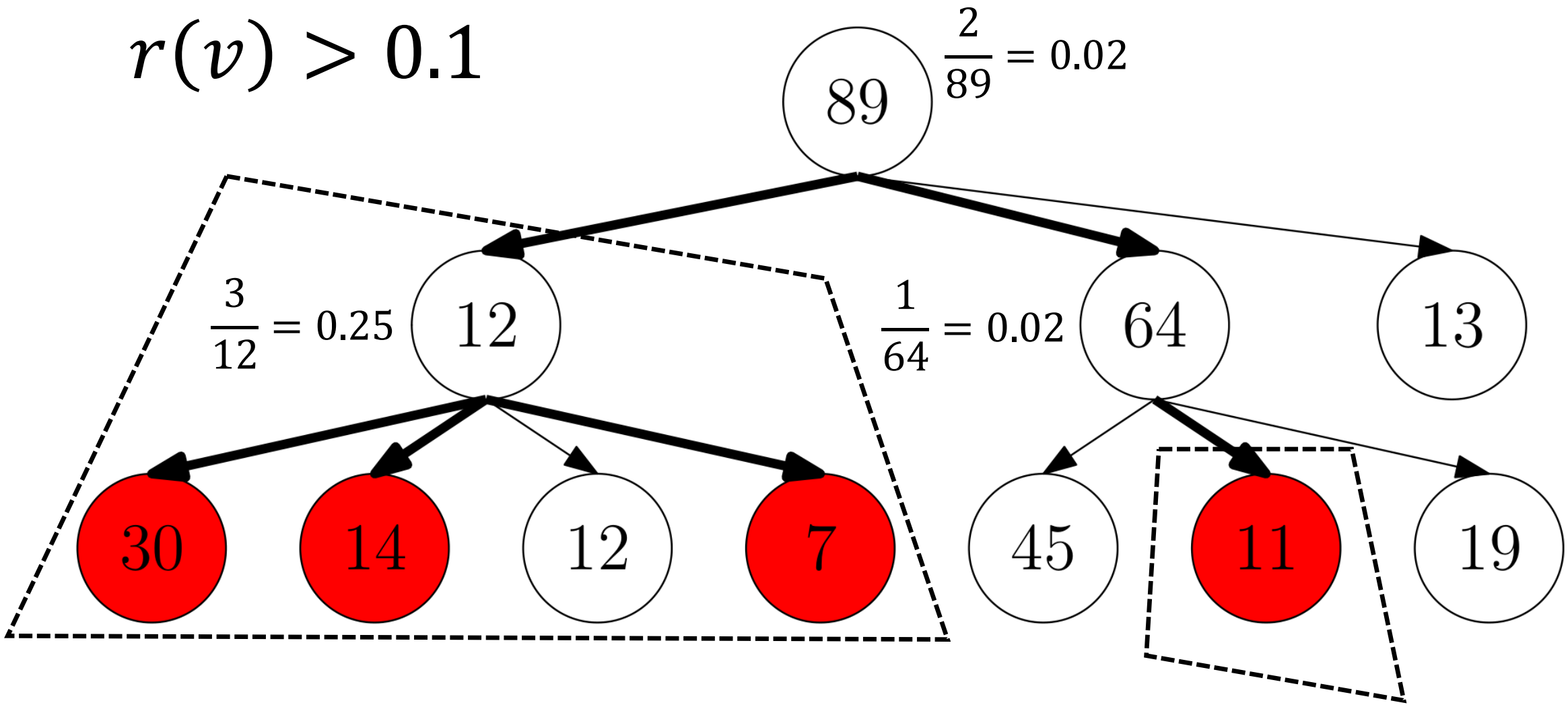
$$\frac{\sum_{v \in R} g(v)}{\sum_{v \in R} b(v)} \leq t$$

Assumptions

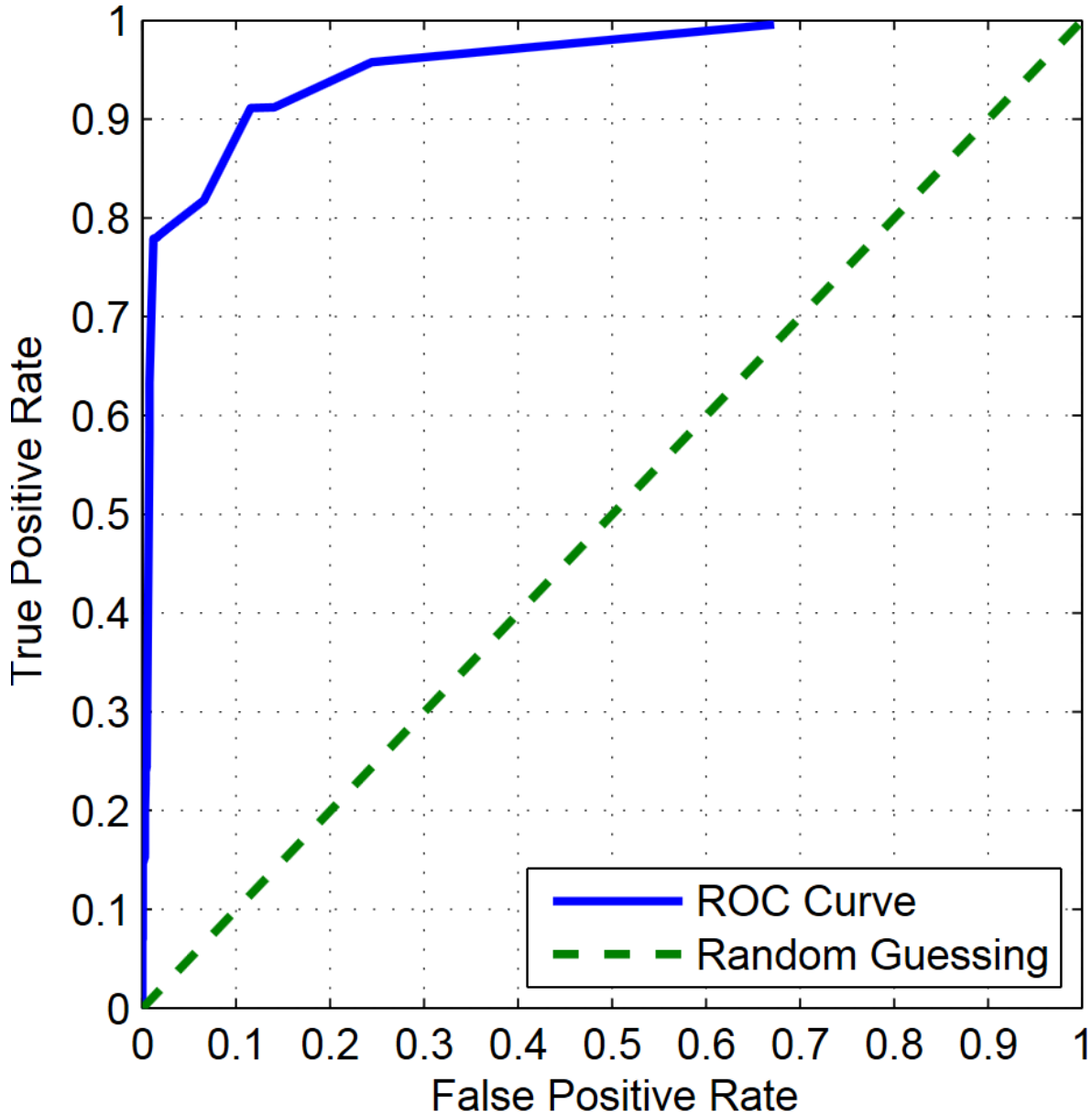


$$r(v) = \frac{c(v)}{\gamma(v)}$$




$r(v) > 0.1$
89
$\frac{2}{89} = 0.02$
$\frac{3}{12} = 0.25$
12
$\frac{1}{64} = 0.02$
64
13
30
14
12
7
45
11
19

Website	Section	Keyword	# Nodes (bad / all)
20min.ch	International	IS-	188 / 1753
	Finance	Bank	388 / 2333
	Switzerland	Ecopop	121 / 2135
	Sport	Sieg	200 / 2529
blick.ch	International	IS-	62 / 1203
	Economy	Bank	50 / 1159
	Politics	Ecopop	90 / 801
	Sport	Sieg	58 / 1909
nzz.ch	International	IS-	186 / 4565
	Finance	Bank	530 / 4125
	Switzerland	Ecopop	67 / 2904
	Sport	Sieg	215 / 1913


True Positive Rate
False Positive Rate
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
ROC Curve
Random Guessing

Questions?