

	<h1>OPCUG</h1>
	<h2>Scripting and Automation for mere mortals</h2> <p>Chris Taylor</p> <p><i>Users helping users</i></p>

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	<h2>Scripting? Automation?</h2>
	<ul style="list-style-type: none"> ■ Scripting <ul style="list-style-type: none"> – Perform tasks using a scripting language <ul style="list-style-type: none"> ■ (shell scripting, PowerShell, BASH, etc.) – Script often call other processes to do things ■ Automation <ul style="list-style-type: none"> – Automatically run a process or script <ul style="list-style-type: none"> ■ Typically as a scheduled task <p>OPCUG <i>Users helping users</i></p>

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	<h2>Why script & automate</h2>		
	<h3>Repetitive tasks</h3> <table border="0"> <tr> <td> <ul style="list-style-type: none"> ■ Manual <ul style="list-style-type: none"> – Slow – Inconsistent – Run when there – Forget </td> <td> <ul style="list-style-type: none"> ■ Scripted <ul style="list-style-type: none"> – Fast – Consistent ■ Automated <ul style="list-style-type: none"> – Run when you want – Don't forget </td> </tr> </table> <p>OPCUG <i>Users helping users</i></p>	<ul style="list-style-type: none"> ■ Manual <ul style="list-style-type: none"> – Slow – Inconsistent – Run when there – Forget 	<ul style="list-style-type: none"> ■ Scripted <ul style="list-style-type: none"> – Fast – Consistent ■ Automated <ul style="list-style-type: none"> – Run when you want – Don't forget
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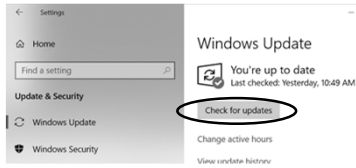
4

	<h2>Three examples</h2>
	<ul style="list-style-type: none"> ■ Update virus signatures ■ Wake drive before backup ■ Analyze web data using Excel <p>OPCUG <i>Users helping users</i></p>

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	<h2>Example 1: Updating AV signature files</h2>
	<ul style="list-style-type: none"> ■ Windows Defender checks once a day ■ New signatures 9 times per day <p>OPCUG <i>Users helping users</i></p>

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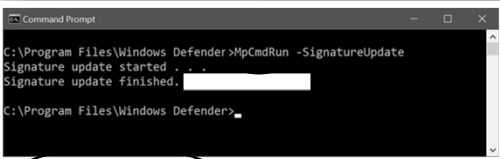
	<h2>Option 1: Check for updates</h2>
	 <ul style="list-style-type: none"> ■ 4 mouse clicks ■ ... or Win-I and 2 mouse clicks <p>OPCUG <i>Users helping users</i></p>


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	<h2>Script it?</h2>
	<ul style="list-style-type: none"> ■ Can't script a mouse click ■ Command-line program? <ul style="list-style-type: none"> – Yes! – MpCmdRun.exe




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	<h2>Option 2: Command line updating</h2>
	 <ul style="list-style-type: none"> ■ MpCmdRun.exe <ul style="list-style-type: none"> – Windows Defender command-line interface ■ –SignatureUpdate ■ Why is this better? <ul style="list-style-type: none"> – Script and shortcut




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	<h1>OPCUG</h1>
	<p>Demo</p> 

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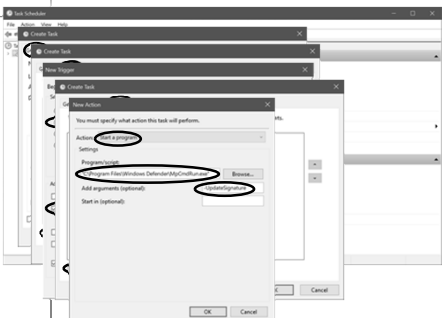
	<h2>Mouse click?</h2>
	<p>Who wants to click if you don't have to?</p>




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	<p>Demo</p>  <p style="text-align: right;">Skip to result</p>

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	<h2>Option 3: Schedule it</h2>
	



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	<h2>Result</h2>
	<ul style="list-style-type: none"> ■ Frequent check for updates ■ I never have to remember ■ If my task fails <ul style="list-style-type: none"> – Windows Update

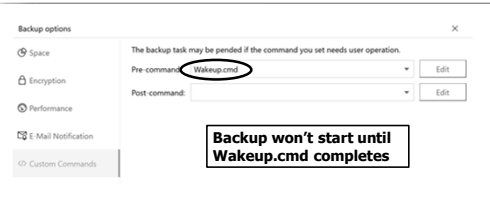
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	<h2>Example 2: Sleeping backup drive</h2>
	<ul style="list-style-type: none"> ■ Backup drive goes to sleep <ul style="list-style-type: none"> – Saves power & wear on drive (good) – Backup may fail (bad)

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Todo Backup
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	<h2>Script to wake up the drive</h2>
	 <p>Backup won't start until Wakeup.cmd completes</p> <ul style="list-style-type: none"> ■ Wakeup.cmd <ul style="list-style-type: none"> – Maybe DIR S: – Maybe something more useful

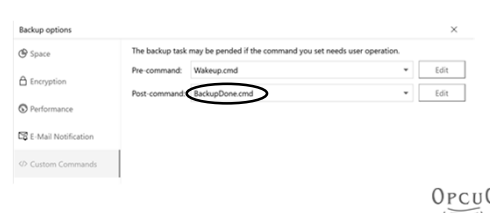
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	<h2>Wakeup.cmd</h2>
	<pre>Echo Start backup %date%, %time% >> s:\Wakeup-log.txt</pre> <pre>Start backup 2019-01-01, 3:05:02.83 Start backup 2019-01-02, 3:05:02.48 Start backup 2019-01-03, 3:05:02.98</pre>

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	<h2>Wait! Can do a "Post-command" too</h2>
	

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	<h2>BackupDone.cmd</h2>
	<pre>Echo End backup %date%, %time% >> s:\Wakeup-log.txt</pre> <div> <div>Before backup</div> <div>After backup</div> </div> <pre>Start backup 2019-01-01, 3:05:02.83 End backup 2019-01-01, 5:16:26.52 Start backup 2019-01-02, 3:05:02.48 End backup 2019-01-02, 3:08:27.14 Start backup 2019-01-03, 3:05:02.98 End backup 2019-01-03, 3:09:55.88</pre>

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Result

- Backup drive
 - Spooled up before backup
- Log file
 - Start / end times

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Example 3:
OPL Presentation List

- Web page
 - 584 presentations
 - Growing ~70 per year
- Analyse in Excel
- Easier done than said
 - Once you script it!

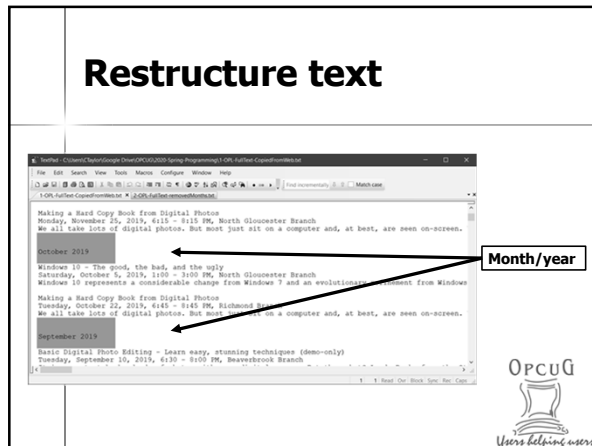
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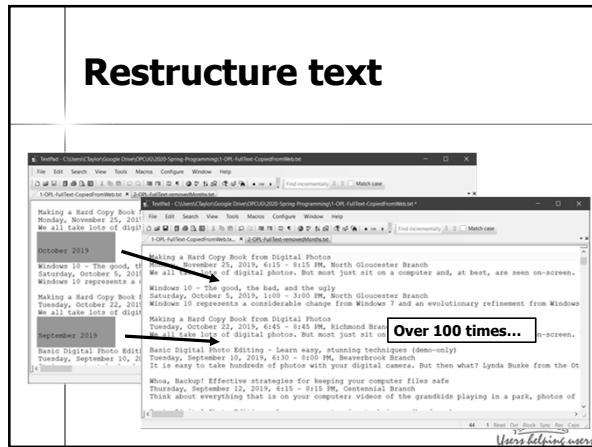
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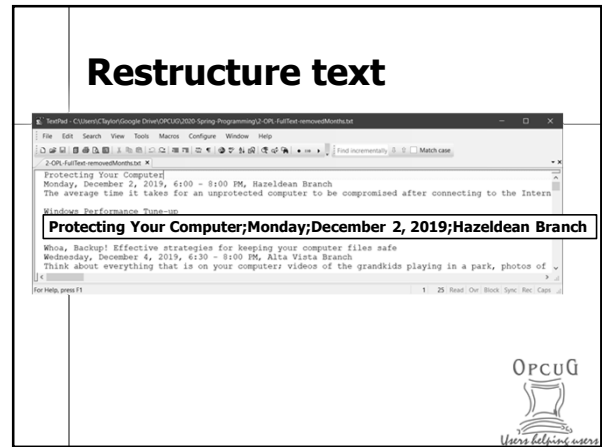
31



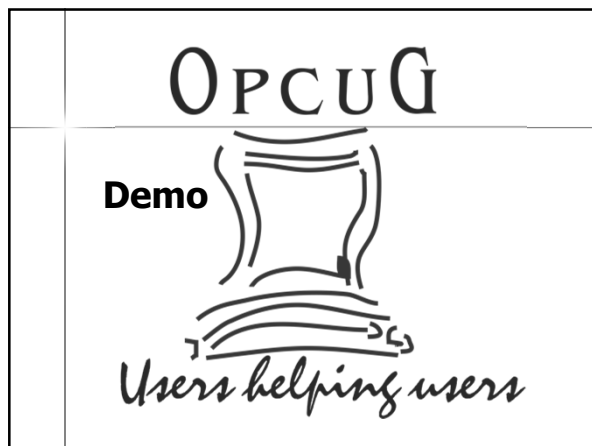
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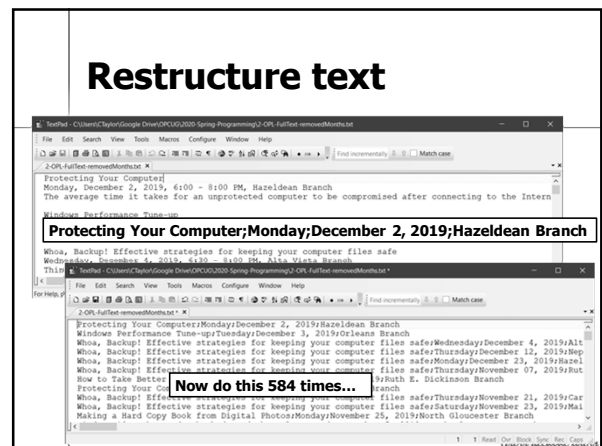
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Restructure text (smarter)

- Advanced text editor
 - Powerful search/replace
 - Regular expressions
 - Record/playback keystrokes (macros)
 - Do it once
 - Play back as often as you need



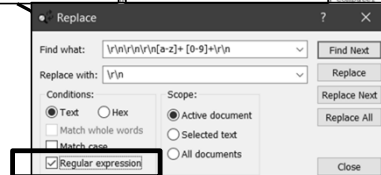
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Month markers

Search for
- 2 blank lines
- 3 - 9 letters (month)
- a space
- 4 numbers (year)
- a blank line
Replace with
- 1 blank line

Regular expressions

Search for
- `\r\n\r\n\r\n\r\n`
- `[a-z]{3,9}`
- space
- `[0-9]{4}`
- `\r\n`
Replace with
- `\r\n`



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Demo



[Skip to Excel](#) [Skip to result](#) [Skip to bonus](#) [Skip to summary](#)

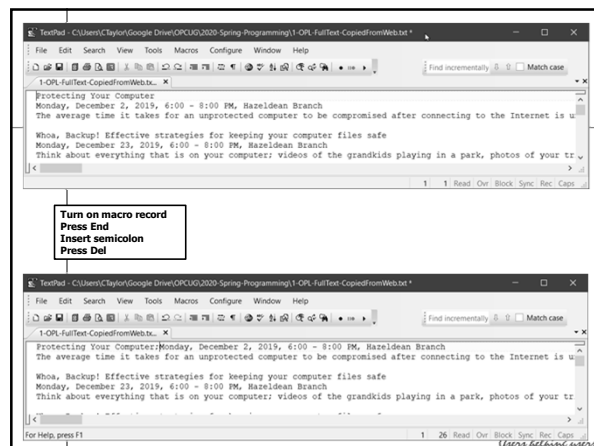
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Each presentation

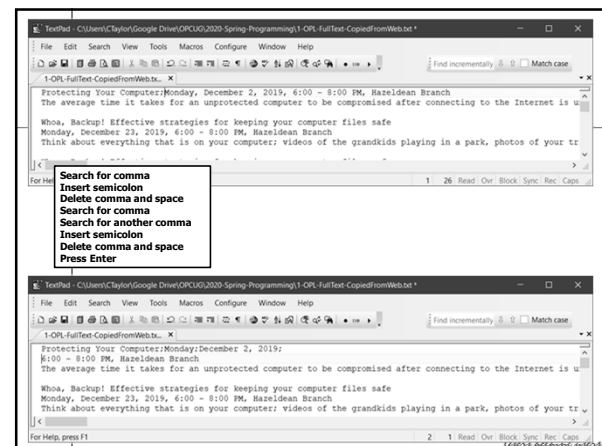
- Identical layout
- Record keystrokes (macro)
- Edit structure of one presentation
 - “repeat to end of file”



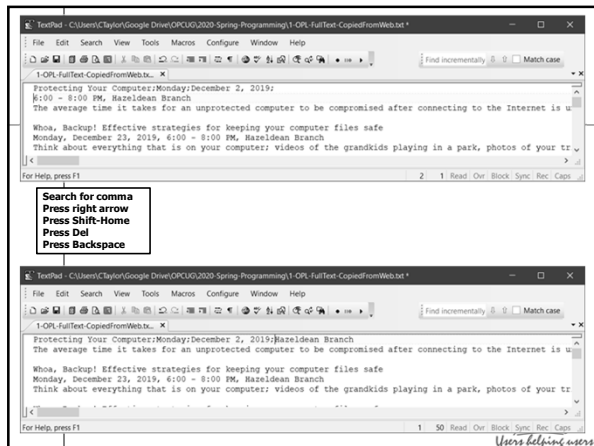
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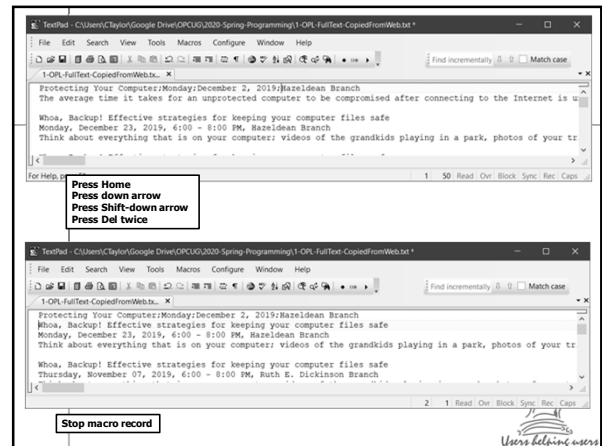
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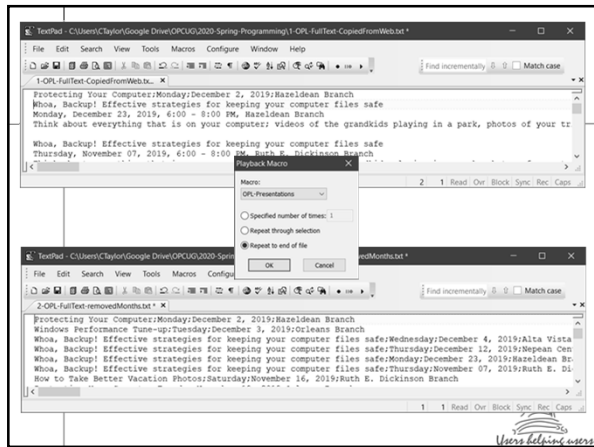
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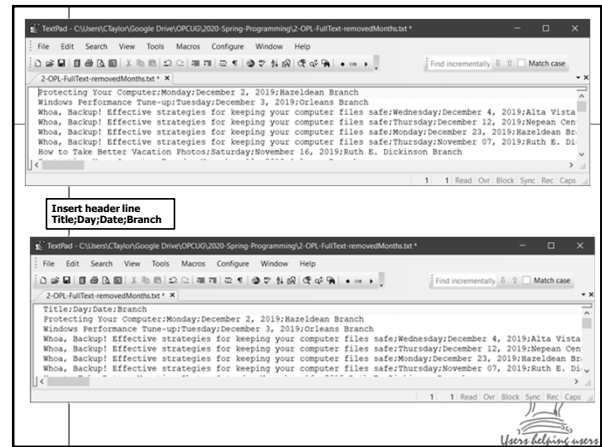
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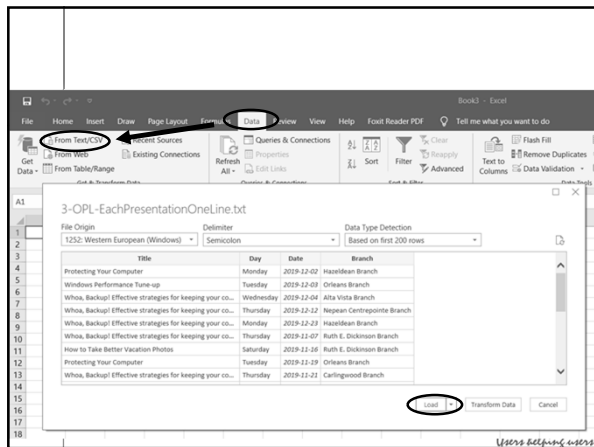
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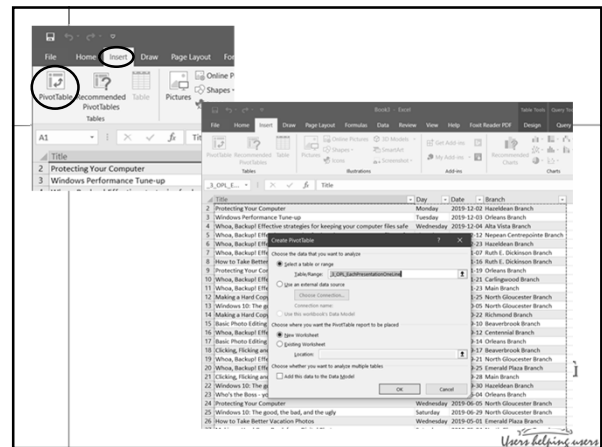
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<tr><td>156</td><td>1</td></tr> <tr><td>157</td><td>1</td></tr> <tr><td>158</td><td>1</td></tr> <tr><td>159</td><td>1</td></tr> <tr><td>160</td><td>1</td></tr> <tr><td>161</td><td>1</td></tr> <tr><td>162</td><td>1</td></tr> <tr><td>163</td><td>1</td></tr> <tr><td>164</td><td>1</td></tr> <tr><td>165</td><td>1</td></tr> <tr><td>166</td><td>1</td></tr> <tr><td>167</td><td>1</td></tr> <tr><td>168</td><td>1</td></tr> <tr><td>169</td><td>1</td></tr> <tr><td>170</td><td>1</td></tr> <tr><td>171</td><td>1</td></tr> <tr><td>172</td><td>1</td></tr> <tr><td>173</td><td>1</td></tr> <tr><td>174</td><td>1</td></tr> <tr><td>175</td><td>1</td></tr> <tr><td>176</td><td>1</td></tr> <tr><td>177</td><td>1</td></tr> <tr><td>178</td><td>1</td></tr> <tr><td>179</td><td>1</td></tr> <tr><td>180</td><td>1</td></tr> <tr><td>181</td><td>1</td></tr> <tr><td>182</td><td>1</td></tr> <tr><td>183</td><td>1</td></tr> <tr><td>184</td><td>1</td></tr> <tr><td>185</td><td>1</td></tr> <tr><td>186</td><td>1</td></tr> <tr><td>187</td><td>1</td></tr> <tr><td>188</td><td>1</td></tr> <tr><td>189</td><td>1</td></tr> <tr><td>190</td><td>1</td></tr> <tr><td>191</td><td>1</td></tr> <tr><td>192</td><td>1</td></tr> <tr><td>193</td><td>1</td></tr> <tr><td>194</td><td>1</td></tr> <tr><td>195</td><td>1</td></tr> <tr><td>196</td><td>1</td></tr> <tr><td>197</td><td>1</td></tr> <tr><td>198</td><td>1</td></tr> <tr><td>199</td><td>1</td></tr> <tr><td>200</td><td>1</td></tr> <tr><td>201</td><td>1</td></tr> <tr><td>202</td><td>1</td></tr> <tr><td>203</td><td>1</td></tr> <tr><td>204</td><td>1</td></tr> <tr><td>205</td><td>1</td></tr> <tr><td>206</td><td>1</td></tr> <tr><td>207</td><td>1</td></tr> <tr><td>208</td><td>1</td></tr> <tr><td>209</td><td>1</td></tr> <tr><td>210</td><td>1</td></tr> <tr><td>211</td><td>1</td></tr> <tr><td>212</td><td>1</td></tr> <tr><td>213</td><td>1</td></tr> <tr><td>214</td><td>1</td></tr> <tr><td>215</td><td>1</td></tr> <tr><td>216</td><td>1</td></tr> <tr><td>217</td><td>1</td></tr> <tr><td>218</td><td>1</td></tr> <tr><td>219</td><td>1</td></tr> <tr><td>220</td><td>1</td></tr> <tr><td>221</td><td>1</td></tr> <tr><td>222</td><td>1</td></tr> <tr><td>223</td><td>1</td></tr> <tr><td>224</td><td>1</td></tr> <tr><td>225</td><td>1</td></tr> <tr><td>226</td><td>1</td></tr> <tr><td>227</td><td>1</td></tr> <tr><td>228</td><td>1</td></tr> <tr><td>229</td><td>1</td></tr> <tr><td>230</td><td>1</td></tr> <tr><td>231</td><td>1</td></tr> <tr><td>232</td><td>1</td></tr> <tr><td>233</td><td>1</td></tr> <tr><td>234</td><td>1</td></tr> <tr><td>235</td><td>1</td></tr> <tr><td>236</td><td>1</td></tr> <tr><td>237</td><td>1</td></tr> <tr><td>238</td><td>1</td></tr> <tr><td>239</td><td>1</td></tr> <tr><td>240</td><td>1</td></tr> <tr><td>241</td><td>1</td></tr> <tr><td>242</td><td>1</td></tr> <tr><td>243</td><td>1</td></tr> <tr><td>244</td><td>1</td></tr> <tr><td>245</td><td>1</td></tr> <tr><td>246</td><td>1</td></tr> <tr><td>247</td><td>1</td></tr> <tr><td>248</td><td>1</td></tr> <tr><td>249</td><td>1</td></tr> <tr><td>250</td><td>1</td></tr> <tr><td>251</td><td>1</td></tr> <tr><td>252</td><td>1</td></tr> <tr><td>253</td><td>1</td></tr> <tr><td>254</td><td>1</td></tr> <tr><td>255</td><td>1</td></tr> <tr><td>256</td><td>1</td></tr> <tr><td>257</td><td>1</td></tr> <tr><td>258</td><td>1</td></tr> <tr><td>259</td><td>1</td></tr> <tr><td>260</td><td>1</td></tr> <tr><td>261</td><td>1</td></tr> <tr><td>262</td><td>1</td></tr> <tr><td>263</td><td>1</td></tr> <tr><td>264</td><td>1</td></tr> <tr><td>265</td><td>1</td></tr> <tr><td>266</td><td>1</td></tr> <tr><td>267</td><td>1</td></tr> <tr><td>268</td><td>1</td></tr> <tr><td>269</td><td>1</td></tr> <tr><td>270</td><td>1</td></tr> <tr><td>271</td><td>1</td></tr> <tr><td>272</td><td>1</td></tr> <tr><td>273</td><td>1</td></tr> <tr><td>274</td><td>1</td></tr> <tr><td>275</td><td>1</td></tr> <tr><td>276</td><td>1</td></tr> <tr><td>277</td><td>1</td></tr> <tr><td>278</td><td>1</td></tr> <tr><td>279</td><td>1</td></tr> <tr><td>280</td><td>1</td></tr> <tr><td>281</td><td>1</td></tr> <tr><td>282</td><td>1</td></tr> <tr><td>283</td><td>1</td></tr> <tr><td>284</td><td>1</td></tr> <tr><td>285</td><td>1</td></tr> <tr><td>286</td><td>1</td></tr> <tr><td>287</td><td>1</td></tr> <tr><td>288</td><td>1</td></tr> <tr><td>289</td><td>1</td></tr> <tr><td>290</td><td>1</td></tr> <tr><td>291</td><td>1</td></tr> <tr><td>292</td><td>1</td></tr> <tr><td>293</td><td>1</td></tr> <tr><td>294</td><td>1</td></tr> <tr><td>295</td><td>1</td></tr> <tr><td>296</td><td>1</td></tr> <tr><td>297</td><td>1</td></tr> <tr><td>298</td><td>1</td></tr> <tr><td>299</td><td>1</td></tr> <tr><td>300</td><td>1</td></tr> <tr><td>301</td><td>1</td></tr> <tr><td>302</td><td>1</td></tr> <tr><td>303</td><td>1</td></tr> <tr><td>304</td><td>1</td></tr> <tr><td>305</td><td>1</td></tr> <tr><td>306</td><td>1</td></tr> <tr><td>307</td><td>1</td></tr> <tr><td>308</td><td>1</td></tr> <tr><td>309</td><td>1</td></tr> <tr><td>310</td><td>1</td></tr> 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<tr><td>590</td><td>1</td></tr> <tr><td>591</td><td>1</td></tr> <tr><td>592</td><td>1</td></tr> <tr><td>593</td><td>1</td></tr> <tr><td>594</td><td>1</td></tr> <tr><td>595</td><td>1</td></tr> <tr><td>596</td><td>1</td></tr> <tr><td>597</td><td>1</td></tr> <tr><td>598</td><td>1</td></tr> <tr><td>599</td><td>1</td></tr> <tr><td>600</td><td>1</td></tr> <tr><td>601</td><td>1</td></tr> <tr><td>602</td><td>1</td></tr> <tr><td>603</td><td>1</td></tr> <tr><td>604</td><td>1</td></tr> <tr><td>605</td><td>1</td></tr> <tr><td>606</td><td>1</td></tr> <tr><td>607</td><td>1</td></tr> <tr><td>608</td><td>1</td></tr> <tr><td>609</td><td>1</td></tr> <tr><td>610</td><td>1</td></tr> <tr><td>611</td><td>1</td></tr> <tr><td>612</td><td>1</td></tr> <tr><td>613</td><td>1</td></tr> <tr><td>614</td><td>1</td></tr> <tr><td>615</td><td>1</td></tr> <tr><td>616</td><td>1</td></tr> <tr><td>617</td><td>1</td></tr> <tr><td>618</td><td>1</td></tr> <tr><td>619</td><td>1</td></tr> <tr><td>620</td><td>1</td></tr> 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	Bonus script
	<ul style="list-style-type: none"> ■ Get list of files & folders in "documents"
	




56

	OPCUg
	Demo 
	

57

	Why script & automate		
	Repetitive tasks		
	<table border="0"> <tr> <td> <ul style="list-style-type: none"> ■ Manual <ul style="list-style-type: none"> – Slow – Inconsistent – Run immediately – Forget </td><td> <ul style="list-style-type: none"> ■ Scripted <ul style="list-style-type: none"> – Fast – Consistent ■ Automated <ul style="list-style-type: none"> – Run when you want – Don't forget </td></tr> </table>	<ul style="list-style-type: none"> ■ Manual <ul style="list-style-type: none"> – Slow – Inconsistent – Run immediately – Forget 	<ul style="list-style-type: none"> ■ Scripted <ul style="list-style-type: none"> – Fast – Consistent ■ Automated <ul style="list-style-type: none"> – Run when you want – Don't forget
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58

	OPCUg
	Go forth and Script & Automate 
	 

59